0001200375-24-00002210-Q CODEXIS, INC. 20240808202408081617081617091617091617091

of AugustÂ 5, 2024, there were 70,927,377 shares of the registrantâ€™s Common Stock, par value $0.0001 per share, outstanding.1Codexis, Inc.Quarterly Report on Form 10-QFor the Quarter Ended JuneÂ 30, 2024 TABLE OF CONTENTSÂ PAGENUMBERPART I. FINANCIAL INFORMATIONITEMÂ 1.Financial Statements (Unaudited)Condensed Consolidated Balance Sheets3Condensed Consolidated Statements of Operations4Condensed Consolidated Statements Comprehensive Loss5Condensed Consolidated Statements of Stockholders' Equity6Condensed Consolidated Statements of Cash Flows8Notes to Condensed Consolidated Financial Statements10ITEMÂ 2.Management's Discussion and Analysis of Financial Condition and Results of Operations23ITEMÂ 3.Quantitative and Qualitative Disclosures about Market Risk32ITEMÂ 4.Controls and Procedures33PART II. OTHER INFORMATIONITEMÂ 1.Legal Proceedings34ITEMÂ 1A.Risk Factors34ITEMÂ 2.Unregistered Sales of Equity Securities and Use of Proceeds62ITEMÂ 3.Default Upon Senior Securities62ITEMÂ 4.Mine Safety Disclosures62ITEMÂ 5.Other Information62ITEMÂ 6.Exhibits63Signatures642PART I. FINANCIAL INFORMATIONItem 1. Financial StatementsCodexis, Inc.Condensed Consolidated Balance Sheets(Unaudited)(In Thousands, Except Per Share Amounts)June 30, 2024December 31, 2023AssetsCurrent assets:Cash and cash equivalents$18,595Â $65,116Â Restricted cash, current517Â 519Â Short-term investments54,604Â â€”Â Financial assets:Accounts receivable4,860Â 10,036Â Contract assets3,213Â 815Â Unbilled receivables4,380Â 9,142Â Total financial assets12,453Â 19,993Â Less: allowances(65)(65)Total financial assets, net12,388Â 19,928Â Inventories2,232Â 2,685Â Prepaid expenses and other current assets3,062Â 5,218Â Total current assets91,398Â 93,466Â Restricted cash1,062Â 1,062Â Investment in non-marketable equity securities9,700Â 9,700Â Right-of-use assets - Operating leases, net11,576Â 13,137Â Property and equipment, net13,966Â 15,487Â Goodwill2,463Â 2,463Â Other non-current assets1,841Â 1,246Â Total assets$132,006Â $136,561Â Liabilities and Stockholders' EquityCurrent liabilities:Accounts payable$3,685Â $5,947Â Accrued compensation7,658Â 11,246Â Other accrued liabilities5,417Â 4,735Â Current portion of lease obligations - Operating leases3,979Â 3,781Â Deferred revenue9,800Â 10,121Â Total current liabilities30,539Â 35,830Â Deferred revenue, net of current portion200Â 640Â Long-term lease obligations - Operating leases10,191Â 12,243Â Long-term debt28,365Â â€”Â Other long-term liabilities1,264Â 1,233Â Total liabilities70,559Â 49,946Â Commitments and Contingencies (Note 10)Stockholders' equity:Preferred stock, $0.0001 par value per share; 5,000 shares authorized, none issued and outstandingâ€”Â â€”Â Common stock, $0.0001 par value per share; 200,000 shares authorized; 70,914 shares and 69,905 shares issued and outstanding as of JuneÂ 30, 2024 and DecemberÂ 31, 2023, respectively7Â 7Â Additional paid-in capital593,253Â 584,138Â Accumulated other comprehensive loss(23)â€”Â Accumulated deficit(531,790)(497,530)Total stockholders' equity61,447Â 86,615Â Total liabilities and stockholders' equity$132,006Â $136,561Â See accompanying notes to the unaudited condensed consolidated financial statements.3Codexis, Inc.Condensed Consolidated Statements of Operations(Unaudited)(In Thousands, Except Per Share Amounts)Â Three Months Ended June 30,Six Months Ended June 30,Â 20242023Revenues:Product revenue$6,259Â $11,048Â $15,810Â $19,412Â Research and development revenue1,720Â 10,275Â 9,242Â 14,893Â Total revenues7,979Â 21,323Â 25,052Â 34,305Â Costs and operating expenses:Cost of product revenue3,462Â 3,178Â 8,317Â 7,698Â Research and development11,413Â 17,334Â 22,659Â 33,988Â Selling, general and administrative15,671Â 13,365Â 28,531Â 28,765Â Restructuring chargesâ€”Â 72Â â€”Â 145Â Asset impairment and other charges165Â â€”Â 165Â â€”Â Total costs and operating expenses30,711Â 33,949Â 59,672Â 70,596Â Loss from operations(22,732)(12,626)(34,620)(36,291)Interest income972Â 1,121Â 1,881Â 2,209Â Interest and other expense, net(985)(9)(1,500)(33)Loss before income taxes(22,745)(11,514)(34,239)(34,115)Provision for income taxes10Â 9Â 21Â 25Â Net loss$(22,755)$(11,523)$(34,260)$(34,140)Net loss per share, basic and diluted(0.32)(0.17)(0.49)(0.51)Weighted average common stock shares used in computing net loss per share, basic and diluted70,376Â 67,573Â 70,115Â 66,756Â See accompanying notes to the unaudited condensed consolidated financial statements.4Codexis, Inc.Condensed Consolidated Statements of Comprehensive Loss(Unaudited)(In Thousands)Â Three Months Ended June 30,Six Months Ended June 30,Â 20242023Net loss$(22,755)$(11,523)$(34,260)$(34,140)Other comprehensive loss:Unrealized loss on available-for-sale short-term investments, net of tax(7)â€”Â (23)â€”Â Comprehensive loss$(22,762)$(11,523)$(34,283)$(34,140)See accompanying notes to the unaudited condensed consolidated financial statements.5Codexis, Inc.Condensed Consolidated Statements of Stockholders' Equity(Unaudited)(In Thousands)Common StockAdditional Paid-in Capital Accumulated Other Comprehensive LossAccumulated DeficitTotal Stockholders' EquityThree Months Ended June 30, 2024SharesAmountBalance as of April 1, 202470,554Â $7Â $588,311Â (16)(509,035)$79,267Â Issuance of common stock upon release of stock awards236Â â€”Â â€”Â â€”Â â€”Â Issuance of common stock under employee stock purchase plan124Â â€”Â 260Â â€”Â â€”Â 260Â Stock-based compensationâ€”Â â€”Â 4,682Â â€”Â â€”Â 4,682Â Net Lossâ€”Â â€”Â â€”Â â€”Â (22,755)(22,755)Other comprehensive lossâ€”Â â€”Â â€”Â (7)â€”Â (7)Balance as of JuneÂ 30, 202470,914Â $7Â $593,253Â (23)(531,790)$61,447Â Common StockAdditional Paid-in Capital Accumulated Other Comprehensive LossAccumulated DeficitTotal Stockholders' EquityThree Months Ended June 30, 2023SharesAmountBalance as of April 1, 202366,696Â $6Â $569,917Â $â€”Â $(443,907)$126,016Â Issuance of common stock upon exercise of stock options71Â â€”Â 141Â â€”Â â€”Â 141Â Issuance of common stock upon release of stock awards285Â â€”Â â€”Â â€”Â â€”Â Issuance of common stock in connection with an equity sales agreement, net of issuance costs of $3312,752Â â€”Â 6,781Â â€”Â â€”Â 6,781Â Stock-based compensationâ€”Â â€”Â 2,716Â â€”Â â€”Â 2,716Â Net Lossâ€”Â â€”Â â€”Â (11,523)(11,523)Balance as of JuneÂ 30, 202369,804Â $6Â $579,555Â $â€”Â $(455,430)$124,131Â See accompanying notes to the unaudited condensed consolidated financial statements.6Codexis, Inc.Condensed Consolidated Statements of Stockholders' Equity(Unaudited)(In Thousands)Common StockAdditional Paid-in CapitalAccumulated Other Comprehensive LossAccumulated DeficitTotal Stockholders' EquitySix Months Ended June 30, 2024SharesAmountBalance as of January 1, 202469,905Â $7Â $584,138Â $â€”Â $(497,530)$86,615Â Issuance of common stock upon exercise of stock options73Â â€”Â 143Â â€”Â â€”Â 143Â Issuance of common stock upon release of stock awards812Â â€”Â â€”Â â€”Â â€”Â â€”Â Issuance of common stock warrants in connection with debt issuanceâ€”Â â€”Â 859Â â€”Â â€”Â 859Â Issuance of common stock under employee stock purchase plan124Â â€”Â 260Â â€”Â â€”Â 260Â Stock-based compensationâ€”Â â€”Â 7,853Â â€”Â â€”Â 7,853Â Net Lossâ€”Â â€”Â â€”Â (34,260)(34,260)Other comprehensive lossâ€”Â â€”Â â€”Â (23)â€”Â (23)Balance as of JuneÂ 30, 202470,914Â $7Â $593,253Â (23)(531,790)$61,447Â Common StockAdditional Paid-in CapitalAccumulated Other Comprehensive LossAccumulated DeficitTotal Stockholders' EquitySix Months Ended June 30, 2023SharesAmountBalance as of January 1, 202365,811Â $6Â $566,081Â $â€”Â $(421,290)$144,797Â Issuance of common stock upon exercise of stock options214Â â€”Â 422Â â€”Â â€”Â 422Â Issuance of common stock upon release of stock awards764Â â€”Â â€”Â â€”Â â€”Â â€”Â Issuance of common stock in connection with an equity sales agreement, net of issuance costs of $7213,080Â â€”Â 7,931Â â€”Â â€”Â 7,931Â Stock-based compensationâ€”Â â€”Â 5,525Â â€”Â â€”Â 5,525Â Taxes paid related to net share settlement of equity awards(65)â€”Â (404)â€”Â â€”Â (404)Net Lossâ€”Â â€”Â â€”Â (34,140)(34,140)Balance as of JuneÂ 30, 202369,804Â $6Â $579,555Â $â€”Â $(455,430)$124,131Â See accompanying notes to the unaudited condensed consolidated financial statements.7Codexis, Inc.Condensed Consolidated Statements of Cash Flows(Unaudited)(In Thousands)Six Months Ended June 30,Â 20242023Operating activities:Net loss$(34,260)$(34,140)Adjustments to reconcile net loss to net cash used in operating activities:Depreciation and amortization2,516Â 2,946Â Reduction in the carrying amount of right-of-use assets1,561Â 2,517Â Stock-based compensation7,853Â 5,525Â Asset impairment and other charges165Â â€”Â Equity securities earned from research and development activitiesâ€”Â (118)Non-cash interest expense345Â â€”Â Amortization of discount on short-term investments(487)â€”Â Other non-cash items14Â (15)Changes in operating assets and liabilities:Financial assets7,137Â 19,261Â Inventories453Â (23)Prepaid expenses and other assets2,402Â 1,324Â Accounts payable(2,275)631Â Accrued compensation and other accrued liabilities(2,598)(10,373)Other long-term liabilities(2,022)(2,864)Deferred revenue(761)(9,970)Net cash used in operating activities(19,957)(25,299)Investing activities:Purchase of property and equipment(1,525)(4,120)Proceeds from sale of property and equipment15Â 15Â Investment in short-term investments(57,140)â€”Â Proceeds from maturity of short-term investments3,000Â â€”Â Investment in non-marketable securitiesâ€”Â (750)Net cash used in investing activities(55,650)(4,855)Financing activities:Proceeds from exercises of stock options281Â 422Â Proceeds from issuance of stock under employee stock purchase plan327Â â€”Â Proceeds from issuance of common stock in connection with equity sales agreementâ€”Â 8,652Â Costs incurred in connection with equity sales agreements(403)(395)Proceeds from long-term debt29,521Â â€”Â Payment of debt issuance costs(642)â€”Â Taxes paid related to net share settlement of equity awardsâ€”Â (404)Net cash provided by financing activities29,084Â 8,275Â Net decrease in cash, cash equivalents and restricted cash(46,523)(21,879)Cash, cash equivalents and restricted cash at the beginning of the period66,697Â 116,026Â Cash, cash equivalents and restricted cash at the end of the period$20,174Â $94,147Â 8Supplemental disclosure of cash flow information:Interest paid$890Â $10Â Income taxes paid$17Â $193Â Supplemental non-cash investing and financing activities:Capital expenditures incurred but not yet paid$768Â $434Â Transfer from property and equipment to assets held for sale$59Â $â€”Â The following table provides a reconciliation of cash, cash equivalents and restricted cash reported within the unaudited condensed consolidated balance sheets as of JuneÂ 30, 2024 and 2023 to the total of the same such amounts shown above in the unaudited condensed consolidated statements of cash flows:Â June 30,Â 20242023Cash and cash equivalents$18,595Â $92,093Â Restricted cash, current and non-current 1,579Â 2,054Â Total cash, cash equivalents and restricted cash$20,174Â $94,147Â This table excludes short-term investments of $54.6 million as of JuneÂ 30, 2024. Total cash, cash equivalents, and short-term investments as of JuneÂ 30, 2024 were $73.2 million.See accompanying notes to the unaudited condensed consolidated financial statements.9Codexis Inc.Notes to Condensed Consolidated Financial Statements(Unaudited)Note 1. Description of BusinessIn these notes to the unaudited condensed consolidated financial statements, the â€œCompany,â€ â€œCodexis,â€ â€œwe,â€ â€œus,â€ and â€œourâ€ refers to Codexis, Inc. and its subsidiaries on a consolidated basis.We discover, develop, enhance, and commercialize novel, high performance enzymes and other classes of proteins leveraging our proprietary CodeEvolverÂ® directed evolution technology platform.We previously managed our business as two business segments, Performance Enzymes and Novel Biotherapeutics. During the third and fourth quarters of 2023, we made changes to the structure of our organization in connection with the restructuring of our business that we announced in July 2023, including the discontinuation of investment in certain development programs, primarily in our biotherapeutics business, consolidation of operations to our Redwood City, California headquarters, and headcount reduction. In connection with these organizational structure changes, corresponding changes were made to how our business is managed, how results are reported internally and how our Chief Executive Officer (â€œCEOâ€), our chief operating decision maker, assesses performance and allocates resources. As a result of these changes, our previous Performance Enzymes and Novel Biotherapeutics operating segments were combined into a single reportable segment. Effective October 1, 2023, the Company's operations are managed and reported to the CEO on a consolidated basis. The CEO assesses performance and allocates resources based on the consolidated results of operations. We believe that these changes better align internal resources to create a more efficient and effective organizational structure. Under this new organizational and reporting structure, we managed our business as one reportable segment as of December 31, 2023. Comparative prior period disclosures that reflected the previous two segments' information have been revised to conform to this change in our reportable segment.Note 2. Basis of Presentation and Summary of Significant Accounting PoliciesBasis of Presentation and Principles of ConsolidationThe accompanying unaudited condensed consolidated financial statements have been prepared in accordance with generally accepted accounting principles in the United States of America (â€œGAAPâ€) and the applicable rules and regulations of the Securities and Exchange Commission (â€œSECâ€) for interim financial information but does not include all the information and notes required by GAAP for complete financial statements. These interim unaudited condensed consolidated financial statements should be read in conjunction with the audited consolidated financial statements and notes thereto contained in our Annual Report on Form 10-K for the year ended DecemberÂ 31, 2023. The condensed consolidated balance sheet at DecemberÂ 31, 2023 has been derived from the audited consolidated financial statements at that date, but does not include all disclosures, including notes, required by GAAP for complete financial statements. The significant accounting policies used in preparation of the unaudited condensed consolidated financial statements for the three and six months ended June 30, 2024 and 2023, are consistent with those discussed in Note 2 to the audited consolidated financial statements in the Companyâ€™s 2023 Annual Report on Form 10-K and are updated below as necessary. There have been no significant changes in our significant accounting policies or critical accounting estimates since DecemberÂ 31, 2023.The unaudited condensed consolidated financial statements have been prepared on the same basis as the audited consolidated financial statements and, in the opinion of management, reflect all adjustments of a normal recurring nature considered necessary to present fairly our financial position as of JuneÂ 30, 2024 and results of operations for the interim periods presented. The interim results are not necessarily indicative of the results for any future interim period or for the entire year.The unaudited condensed consolidated financial statements include the accounts of Codexis, Inc. and its wholly owned subsidiaries. All intercompany balances and transactions have been eliminated in consolidation. Use of EstimatesThe preparation of our unaudited condensed consolidated financial statements in conformity with GAAP requires us to make estimates, judgments and assumptions that may affect the reported amounts of assets, liabilities, equity, revenues and expenses and related disclosure of contingent assets and liabilities. We regularly assess these estimates which primarily affect revenue recognition, deferred revenue, inventories, valuation of equity investments, goodwill arising out of business acquisitions, accrued liabilities, stock awards, and the valuation allowances associated with deferred tax assets. Actual results could differ from those estimates and such differences may be material to the condensed consolidated financial statements.10Short-term InvestmentsWe classify all marketable debt securities that have effective maturities of three months or less from the date of purchase as cash equivalents and those with effective maturities of greater than three months as short-term investment securities in the condensed consolidated balance sheets. We determine the appropriate classification of our short-term investments at the time of purchase and reevaluate such designation at each balance sheet date. We have classified and accounted for our short-term investments as available-for-sale. After consideration of our risk versus reward objectives, as well as our liquidity requirements, we may sell these debt securities prior to their effective maturities. We carry these short-term investments at fair value, and report the unrealized gains and losses, net of taxes, as a component of stockholdersâ€™ equity, except for the changes in allowance for expected credit losses, which are included in â€œInterest and other expense, netâ€ in the unaudited condensed consolidated statements of operations. We determine any realized gains or losses on the sale of short-term investments on a specific identification method, and we record such gains and losses as a component of interest income.Short-term investments are reviewed periodically for allowances for credit losses and impairment. When evaluating the investments, the Company reviews factors such as the extent to which the fair value of the security is less than the amortized cost basis, adverse conditions specifically related to the security, the financial condition of the issuer, the Companyâ€™s intent to sell, and whether it would be more likely than not that the Company would be required to sell the investments before the recovery of the amortized cost basis.Impairment of Long-Lived AssetsWe evaluate the carrying values of long-lived assets, which include property and equipment and right-of-use assets, whenever events, changes in business circumstances or our planned use of long-lived assets indicate that their carrying amounts may not be fully recoverable or that their useful lives are no longer appropriate. If these facts and circumstances exist, we assess for recovery by comparing the carrying values of long-lived assets with the future net undiscounted cash flows expected to be generated by the asset. If such assets are considered to be impaired, the impairment to be recognized is measured by the amount by which the carrying amount of the asset exceeds the fair value of the asset. Assets Held For SaleThe Company classifies assets as held for sale when the following conditions are met: (i) management has committed to a plan to sell, (ii) the assets are available for immediate sale in their present condition, (iii) the Company has initiated an active program to identify a buyer, (iv) it is probable that a sale will occur within one year, (v) the assets are actively marketed for sale at a reasonable price in relation to their current fair value, and (vi) there is a low likelihood of significant changes to the plan or that the plan will be withdrawn. If all of the criteria are met as of the balance sheet date, the assets are presented separately in the consolidated balance sheet as held for sale at the lower of the carrying amount or fair value less costs to sell. The assets are then no longer depreciated or amortized while classified as held for sale.Accounting PronouncementsRecently adopted accounting pronouncementsThere were no recent accounting pronouncements or changes in accounting pronouncements during the three and six months ended June 30, 2024, that are of significance or potential significance to us.Recently issued accounting pronouncements not yet adoptedIn March 2024, the Financial Accounting Standards Board (â€œFASBâ€) issued ASU No. 2024-02, Codification Improvements - Amendments to Remove References to the Concepts Statements. This ASU amends the FASB Accounting Standard Codification (the â€œASCâ€) to remove references to various concepts statements and impacts a variety of topics in the ASC. This ASU is effective for public companies with annual periods beginning after December 15, 2024, with early adoption permitted. If an entity adopts the amendments in an interim period, it must adopt them as of the beginning of the fiscal year that includes that interim period. We are currently evaluating the effects of the standard on our consolidated financial statements and related disclosures.In December 2023, FASB issued ASU No. 2023-09, Income Taxes (Topic 740): Improvements to Income Tax Disclosures. The amendments in the ASU require public companies, on an annual basis, to provide disclosures of specific categories in the rate reconciliation, as well as disclosure of income taxes paid disaggregated by jurisdiction. This ASU is effective for public companies with annual periods beginning after December 15, 2024, with early adoption permitted. We are currently evaluating the effects of the standard on our consolidated financial statements and related disclosures.11In November 2023, FASB issued ASU No. 2023-07, Segment Reporting (Topic 280): Improvements to

Reportable Segment Disclosures. The amendments in the ASU are intended to improve reportable segment disclosure requirements primarily through enhanced disclosures about significant segment expenses. The standard is effective for fiscal years beginning after December 15, 2023, and interim periods within fiscal years beginning after December 15, 2024, with early adoption permitted. The standard should be applied retrospectively to all prior periods presented in the financial statements. We are currently evaluating the effects of the standard on our consolidated financial statements and related disclosures.In October 2023, FASB issued ASU No. 2023-06, Disclosure Improvements: Codification Amendments in Response to the SECâ€™s Disclosure Update and Simplification Initiative. The amendments in the ASU are intended to amend certain disclosure and presentation requirements for a variety of topics within the ASC. These amendments align the requirements in the ASC to the removal of certain disclosure requirements set out in Regulation S-X and Regulation S-K, as announced by the SEC. The effective date for each amended topic in the ASC is either the date on which the SECâ€™s removal of the related disclosure requirement from Regulation S-X or Regulation S-K becomes effective, or on June 30, 2027, if the SEC has not removed the requirements by that date. Early adoption is prohibited. We are currently evaluating the effects of the standard on our consolidated financial statements and related disclosures.Note 3. Revenue RecognitionDisaggregation of RevenueThe following table provides information about disaggregated revenue from contracts with customers by geographic regions. The geographic regions that are tracked are the Americas (United States, Canada, and Latin America), EMEA (Europe, Middle East, and Africa), and APAC (Australia, New Zealand, Southeast Asia, and China).Disaggregated information is as follows (in thousands):Three Months Ended June 30,Six Months Ended June 30,2024202320242023Primary geographical markets:Americas$1,046Â $3,937Â $8,289Â $6,521Â EMEA1,967Â 8,349Â 4,539Â 11,438Â APAC4,966Â 9,037Â 12,224Â 16,346Â Total revenues$7,979Â $21,323Â $25,052Â $34,305Â Contract BalancesThe following table presents balances of contract assets, unbilled receivables, contract costs, and contract liabilities (in thousands):June 30, 2024December 31, 2023Contract assets$3,213Â $815Â Unbilled receivables$5,545Â $9,904Â Contract liabilities: deferred revenue$10,000Â $10,761Â We had no asset impairment charges related to financial assets in the three and six months ended June 30, 2024 and 2023.The increase in contract assets was primarily due to increases in product revenue from contracts subject to over time revenue recognition. The decrease in unbilled receivables was primarily due to the timing of billings. The decrease in deferred revenue was primarily due to the timing of recognition of revenue.As of JuneÂ 30, 2024, we have $4.4 million of short-term unbilled receivables presented as unbilled receivables within current assets and $1.2 million of long-term unbilled receivables that is included within the other non-current assets line item in the condensed consolidated balance sheets. As of DecemberÂ 31, 2023, we had $9.1 million of short-term unbilled receivables presented as unbilled receivables within current assets and $0.8 million of long-term unbilled receivables that is included within the other non-current assets line item in the condensed consolidated balance sheets.12We recognized the following revenues (in thousands):Three Months Ended June 30,Six Months Ended June 30,Revenue recognized in the period for:2024202320242023Amounts included in contract liabilities at the beginning of the period:Performance obligations satisfied$129Â $6,107Â $500Â $7,814Â Changes in the period:Changes in the estimated transaction price allocated to performance obligations satisfied in prior periods(695)3,356Â (543)3,140Â Performance obligations satisfied from new activities in the period - contract revenue8,545Â 11,860Â 25,095Â 23,351Â Total revenues$7,979Â $21,323Â $25,052Â $34,305Â Performance ObligationsThe following table includes estimated revenue expected to be recognized in the future related to performance obligations that are unsatisfied or partially unsatisfied at the end of the reporting periods. The estimated revenue does not include contracts with original durations of one year or less, amounts of variable consideration attributable to royalties, or contract renewals that are unexercised as of JuneÂ 30, 2024.The balances in the table below are partially based on judgments involved in estimating future orders from customers subject to the exercise of material rights pursuant to respective contracts as of JuneÂ 30, 2024 (in thousands): Remainder of 2024202520262027 and ThereafterTotalProduct revenue$9,800Â $100Â $100Â $â€”Â $10,000Â Note 4. Net Loss per ShareBasic net loss per share is computed by dividing the net loss by the weighted-average number of shares of common stock outstanding, less restricted stock awards (â€œRSAsâ€) subject to forfeiture. Diluted net loss per share is computed by dividing net loss by the weighted-average number of shares of common stock shares outstanding, less RSAs subject to forfeiture, plus all additional common shares that would have been outstanding, assuming dilutive potential common stock shares had been issued for other dilutive securities. For all periods presented, diluted and basic net loss per share are identical since potential common stock shares are excluded from the calculation, as their effect was anti-dilutive.Anti-Dilutive SecuritiesIn periods of net loss, the weighted average number of shares outstanding, prior to the application of the treasury stock method, excludes potentially dilutive securities from the computation of diluted net loss per common share because including such shares would have an anti-dilutive effect.The following shares were not considered in the computation of diluted net loss per share because their effect was anti-dilutive (in thousands):Â Three Months Ended June 30,Six Months Ended June 30,Â 2024202320242023Shares issuable under the Equity Incentive Plan and ESPP12,8939,31212,8939,312Warrants(1)424â€”424â€”Total potentially dilutive securities13,3179,31213,3179,312(1) Pertains to the warrants issued in connection with the Innovatus Loan. For additional information, see Note 11, â€œDebt.â€13Note 5. Investments in Non-Marketable SecuritiesNon-Marketable Equity SecuritiesOur non-marketable equity securities are investments in privately held companies without readily determinable market value and primarily relate to our investments in Molecular Assemblies, Inc. (â€œMAIâ€) and seqWell, Inc. (â€œseqWellâ€). These investments are accounted for under the measurement alternative and are measured at cost minus impairment, if any, plus or minus changes resulting from observable price changes for identical or similar securities of the same issuer. Non-marketable equity securities are measured at fair value on a non-recurring basis and classified within Level 2 in the fair value hierarchy when we estimate the fair value of these investments using the observable transaction price paid by third party investors for the same or similar security of the same issuers. The fair value of non-marketable equity securities are classified within Level 3 when we estimate fair value using unobservable inputs such as when we remeasure due to impairment and we use discount rates, market data of comparable companies, and rights and obligations of the securities the Company holds, among others. We adjust the carrying value of non-marketable equity securities which have been remeasured during the period and recognize resulting gains or losses as a component of interest and other expense, net in the unaudited condensed consolidated statements of operations.There was no remeasurement event for our investments in MAI, seqWell, and other non-marketable equity securities that occurred during the three and six months ended June 30, 2024 and 2023. We recognized no realized gains or losses during the three and six months ended June 30, 2024 and 2023. The following table presents the carrying value of our non-marketable equity securities (in thousands):Â June 30, 2024December 31, 2023MAI$6,693Â $6,693Â seqWell2,625Â 2,625Â Other investments in non-marketable equity securities382Â 382Â Total non-marketable equity securities$9,700Â $9,700Â Note 6. Fair Value MeasurementsThe following tables show the Companyâ€™s cash, cash equivalents, and short-term investments by significant investment category as of JuneÂ 30, 2024 and DecemberÂ 31, 2023 (in thousands):June 30, 2024Amortized CostUnrealized GainsUnrealized LossesFair ValueCash and Cash EquivalentsShort-term InvestmentsCash$6,195Â $â€”Â $â€”Â $6,195Â $6,195Â $â€”Â Level 1:Money market funds12,400Â â€”Â â€”Â 12,400Â 12,400Â â€”Â Level 2(1):Commercial paper11,360Â â€”Â (6)11,354Â â€”Â 11,354Â Corporate debt3,934Â â€”Â (5)3,929Â â€”Â 3,929Â U.S. treasury securities39,333Â â€”Â (12)39,321Â â€”Â 39,321Â Subtotal54,627Â â€”Â (23)54,604Â â€”Â 54,604Â Total$73,222Â $â€”Â (23)73,199Â $18,595Â $54,604Â (1) The valuation techniques used to measure the fair values of the Companyâ€™s Level 2 financial instruments uses inputs that are either directly or indirectly observable for the asset through correlation with market data at the measurement date and for the duration of the instrumentâ€™s anticipated life. 14December 31, 2023Amortized CostUnrealized GainsUnrealized LossesFair ValueCash and Cash EquivalentsShort-term InvestmentsCash$8,742Â $â€”Â $â€”Â $8,742Â $8,742Â $â€”Â Level 1:Money market funds56,374Â â€”Â â€”Â 56,374Â 56,374Â â€”Â Total$65,116Â $â€”Â $â€”Â $65,116Â $65,116Â $â€”Â We limit the credit risk associated with our cash equivalents and short-term investments by placing them with banks and institutions we believe are highly credit-worthy and investing in highly-rated investments. As of JuneÂ 30, 2024, and DecemberÂ 31, 2023, the contractual maturity of all investments held was less than one year. During the three and six months ended June 30, 2024 and 2023, we did not recognize any significant credit losses nor other-than-temporary impairment losses on our short-term investments.Note 7. Balance Sheets DetailsInventoriesInventories consisted of the following (in thousands):June 30, 2024December 31, 2023Raw materials$108Â $108Â Work-in-process6Â 7Â Finished goods2,118Â 2,570Â Total Inventories$2,232Â $2,685Â Prepaid expenses and other current assetsAs of JuneÂ 30, 2024, prepaid expenses and other current assets consisted of prepaid expenses of $2.1 million, assets held for sale of $0.1 million, and other current assets of $0.9 million. As of DecemberÂ 31, 2023, prepaid expenses and other current assets consisted of prepaid expenses of $4.6 million and other current assets of $0.6 million.Property and Equipment, netProperty and equipment, net consisted of the following (in thousands):June 30, 2024December 31, 2023Laboratory equipment$36,547Â $37,216Â Leasehold improvements11,960Â 11,912Â Computer equipment and software2,651Â 2,565Â Office equipment and furniture1,116Â 1,469Â Construction in progress1,513Â 1,636Â Property and equipment53,787Â 54,798Â Less: accumulated depreciation and amortization(39,821)(39,311)Property and equipment, net$13,966Â $15,487Â Depreciation expense included in both research and development expenses and selling, general and administrative expenses in the unaudited condensed consolidated statements of operations was as follows (in thousands):Three Months Ended June 30,Six Months Ended June 30,2024202320242023Research and development$1,020Â $1,242Â $2,052Â $2,486Â Selling, general and administrative219Â 238Â 439Â 460Â Total depreciation expense$1,239Â $1,480Â $2,491Â $2,946Â 15Other Accrued LiabilitiesOther accrued liabilities consisted of the following (in thousands):June 30, 2024December 31, 2023Accrued professional and outside service fees$2,766Â $2,330Â Accrued purchases 2,252Â 1,402Â Other399Â 1,003Â Total other accrued liabilities$5,417Â $4,735Â Note 8. Stock-based CompensationEmployee Stock Purchase PlanIn April 2023, the Board approved an employee stock purchase plan (the â€œESPPâ€) which became effective upon approval at the Annual Meeting in June 2023. The ESPP allows eligible employees of the Company to purchase shares of our common stock through payroll deductions. Offering periods are generally over a 24-month period and begin in May and November of each year. The per share purchase price will be the lower of 85% of the closing trading price per share of our common stock on the first trading date of an offering period in which a participant is enrolled or 85% of the closing trading price per share on the purchase date. Participant purchases are limited to a maximum of $25,000 of fair value of our stock per calendar year. The Company is authorized to grant up to 2,000,000 shares of common stock under the ESPP. The first offering period of the ESPP commenced in December 2023. For the three and six months ended June 30, 2024, 123,889 shares of common stock were purchased under the ESPP. As of JuneÂ 30, 2024, 1,876,111 shares of common stock were available for future issuance under the ESPP.We recognized $72 thousand and $149 thousand of stock-based compensation expenses related to the ESPP for the three and six months ended June 30, 2024, respectively. As of JuneÂ 30, 2024, the total unrecognized stock-based compensation expense, net of expected forfeitures, related to the ESPP was $0.6 million and is expected to be recognized over the remaining offering period.Stock OptionsStock options granted to employees generally have a maximum term of ten years and vest over four years from the date of grant, of which 25% vest at the end of one year, and 75% vest monthly over the remaining three years. In January 2024, the Board approved the grants of stock options with a vesting term over three years from the date of grant, of which 33% vest at the end of one year, and 67% vest monthly over the remaining two years.Restricted Stock Units (â€œRSUsâ€)We also grant employees RSUs, which generally vest over either a period with 33% of the shares subject to the RSUs vesting on each yearly anniversary of the vesting commencement date, in each case contingent upon such employeeâ€™s continued service on such vesting date. We may grant RSUs with different vesting terms from time to time.Stock-Based Compensation Expense Stock-based compensation expense is included in the unaudited condensed consolidated statements of operations as follows (in thousands):Â Three Months Ended June 30,Six Months Ended June 30,Â 2024202320242023Cost of product revenue$101Â $83Â $216Â $212Â Research and development 641Â 806Â 1,461Â 1,528Â Selling, general and administrative3,940Â 1,827Â 6,176Â 3,785Â Total$4,682Â $2,716Â $7,853Â $5,525Â 16The following table presents total stock-based compensation expense by security type included in the unaudited condensed consolidated statements of operations (in thousands):Â Three Months Ended June 30,Six Months Ended June 30,Â 2024202320242023Stock options$2,117Â $1,096Â $3,631Â $2,018Â RSUs and restricted stock awards (â€œRSAsâ€)1,152Â 1,373Â 2,469Â 2,499Â Performance-contingent restricted stock units (â€œPSUsâ€)â€”Â 279Â 247Â 1,116Â Performance based options (â€œPBOsâ€)1,341Â (32)1,357Â (108)ESPP72Â â€”Â 149Â â€”Â Total$4,682Â $2,716Â $7,853Â $5,525Â On June 29, 2024, we entered into an Advisory Services Agreement with a former executive of the Company. Pursuant to the advisory agreement, the exercise period for the former executiveâ€™s vested stock options and performance-based options was also extended. The modification resulted in a stock-based compensation expense of $2.0Â million recognized in selling, general and administrative expenses for the three and six months ended June 30, 2024.As of JuneÂ 30, 2024, unrecognized stock-based compensation expense, net of expected forfeitures, was $12.0 million related to unvested stock options, and $6.0 million related to unvested RSUs and RSAs. Stock-based compensation expense for these awards will be recognized through 2028. Note 9. Capital StockExercise of OptionsFor the six months ended June 30, 2024 and JuneÂ 30, 2023, we issued 75,856 and 214,284 shares, respectively, upon option exercises at a weighted-average exercise price of $1.97 per share, with net cash proceeds of $0.1 million and $0.4 million, respectively.Sales AgreementsIn May 2021, we filed a Registration Statement on Form S-3 with the SEC (the â€œ2021 Registration Statementâ€), that automatically became effective upon its filing, under which we may sell common stock, preferred stock, debt securities, warrants, purchase contracts, and units from time to time in one or more offerings. On February 27, 2023, we filed a post-effective amendment to the 2021 Registration Statement. Pursuant to that post-effective amendment, we registered an aggregate $200.0Â million of securities. In May 2021, we entered into an Equity Distribution Agreement (â€œEDAâ€) with Piper Sandler & Co (â€œPSCâ€), under which PSC, as our exclusive agent, at our discretion and at such times that we may determine from time to time, may sell over a three-year period from the execution of the EDA up to a maximum of $50.0Â million of shares of our common stock. Under the terms of the EDA, PSC may sell the shares at market prices by any method that is deemed to be an â€œat the market offeringâ€ as defined in Rule 415 under the Securities Act of 1933, as amended (the â€œSecurities Actâ€).We are not required to sell any shares at any time during the term of the EDA. The EDA will terminate upon the earlier of: (i) the issuance and sale of all shares through PSC on the terms and conditions of the EDA, or (ii) the termination of the EDA in accordance with its terms. Either party may terminate the EDA at any time upon written notification to the other party in accordance with the EDA, and upon such notification, the offering will terminate. Under no circumstances shall any shares be sold pursuant to the EDA after the date which is three years after the registration statement is first declared effective by the SEC. We agreed to pay PSC a commission of 3% of the gross sales price of any shares sold pursuant to the EDA. With the exception of certain expenses, we will pay PSC up to 8% of the gross sales price of the shares sold pursuant to the EDA for a combined amount of commission and reimbursement of PSC's expenses and fees. No shares of our common stock were issued and sold pursuant to the EDA during the three and six months ended June 30, 2024. During the three and six months ended June 30, 2023, 2,751,941 and 3,079,421 shares of our common stock, respectively, were issued and sold pursuant to the EDA and we received gross proceeds of $7.1 million and $8.7 million, or $6.8 million and $7.9 million in net proceeds after PSC's commissions and direct offering expenses of $0.3 million and $0.7 million, respectively. On April 24, 2024, we terminated the EDA.17On May 2, 2024, we entered into a Controlled Equity Offeringâ„¢ Sales Agreement (the â€œCantor Sales Agreementâ€) with Cantor Fitzgerald & Co., as sales agent (â€œCantorâ€), under which Cantor, at our discretion and at such times that we may determine from time to time, may sell up to a maximum of $75.0Â million of shares of our common stock. Under the terms of the Cantor Sales Agreement, Cantor may sell the shares at market prices by any method that is deemed to be an â€œat the market offeringâ€ as defined in Rule 415 under the Securities Act. On May 2, 2024, we filed a registration statement on Form S-3 registering the offer and sale of these shares under the Securities Act which became effective on May 14, 2024. We will pay a commission of up to 3.0% of gross sales proceeds of any common stock sold under the Cantor Sales Agreement. We have made no sales under the Cantor Sales Agreement and as of JuneÂ 30, 2024, $75.0Â million of shares remained available for sale under the Cantor Sales Agreement.Note 10. Commitments and ContingenciesLease and other informationThe Company has entered into operating leases primarily for office and laboratory space. Lease cost amounts included in the measurement of lease obligations and other information related to non-cancellable operating leases were as follows (in thousands):Three Months Ended June 30,Six Months Ended June 30,Â 2024202320242023Operating lease costs(1)$1,033Â $1,830Â $2,065Â $3,660Â (1) The Company had no variable lease costs.Other information:Operating LeasesWeighted-average remaining lease term (in years)3.4 yearsWeighted-average discount rate6.6Â %Six Months Ended June 30,Cash paid (in thousands):20242023Operating cash flows from operating leases$2,357Â $3,775Â 18As of JuneÂ 30, 2024, our maturity analysis of annual undiscounted cash flows of the non-cancellable operating leases are as follows (in thousands):Years Ending December 31,Operating Leases2024 (remaining 6 months)$2,369Â 20254,868Â 20265,014Â 20272,533Â 2028760Â Thereafter318Â Total minimum lease payments15,862Â Less: imputed interest1,692Â Lease obligations$14,170Â Reconciliation of operating lease liabilities as shown within the unaudited condensed consolidated balance sheets (in thousands):Current portion of lease obligations - Operating leases$3,979Â Long-term lease obligations - Operating leases10,191Â Total operating lease liabilities$14,170Â Other CommitmentsWe enter into supply and service arrangements in the normal course of business. Supply arrangements are primarily for fixed-price manufacture and supply. Service agreements are primarily for the development of

manufacturing processes. Commitments under service agreements are typically subject to cancellation at our discretion which may require payment of certain cancellation fees. The timing of completion of service arrangements is subject to variability in estimates of the time required to complete the work.The following table provides quantitative data regarding our other commitments. Future minimum payments reflect amounts that we expect to pay including potential obligations under services agreements subject to risk of cancellation by us (in thousands):Payments Due by PeriodTotal2024 (Remaining 6 Months)2025 and ThereafterFacility maintenance agreement$281Â $281Â $â€”Â Legal ProceedingsWe may be involved in legal actions in the ordinary course of business, including inquiries and proceedings concerning business practices and intellectual property infringement, employee relations and other claims. We will recognize a loss contingency in the condensed consolidated financial statements when it is probable a liability has been incurred and the amount of the loss can be reasonably estimated. We will disclose any loss contingencies that do not meet both conditions if there is a reasonable possibility that a material loss may have been incurred. Gain contingencies are not recorded until they are realized.IndemnificationsWe are required to recognize a liability for the fair value of any obligations we assume upon the issuance of a guarantee. We have certain agreements with licensors, licensees and collaborators that contain indemnification provisions. In such provisions, we typically agree to indemnify the licensor, licensee and collaborator against certain types of third party claims. The maximum amount of the indemnifications is not limited. We accrue for known indemnification issues when a loss is probable and can be reasonably estimated. There were no accruals for expenses related to indemnification issues for any periods presented.19Note 11. DebtInnovatus Loan AgreementOn February 13, 2024 (the â€œClosing Dateâ€), we entered into a five-year term loan and security agreement (the â€œLoan Agreementâ€) with Innovatus Life Sciences Lending Fund I, LP (â€œInnovatusâ€), an affiliate of Innovatus Capital Partners, LLC, for an aggregate principal amount of up to $40.0 million and with a maturity date of February 13, 2029 (the â€œInnovatus Loanâ€). The Innovatus Loan consists of two tranches, of which the first tranche of $30.0 million was funded on February 13, 2024. We will be eligible to draw down the second tranche of $10.0 million upon achievement of certain milestones including pre-specified revenue thresholds. The floating per annum interest rate of the Innovatus Loan is equal to the sum of (a) the greater of (i) prime rate published in the Money Rates section of the Wall Street Journal and (ii) 7.50%, plus (b) 3.25%; provided that, at the election of the Company, up to 2.0% of such rate shall be payable in-kind until the third anniversary of the closing date. The Company is required to make monthly interest-only payments through February 1, 2027, after which the Company is required to make monthly amortizing payments, with the remaining balance of the principal plus accrued and unpaid interest due at maturity. 2.0% of the interest is payable in-kind for the first three years of the term by increasing the principal balance. Prepayments of the loan, in whole or in part, will be subject to an early prepayment fee which ranges between 3.0% and 1.0% and declines each year until the third anniversary date of the Closing Date, after which no prepayment fee is required. The Company is also required to pay an exit fee upon any payment or prepayment equal to 3.0% of the aggregate principal amount of the tranches funded under the Innovatus Loan.The Innovatus Loan contains customary representations and warranties and covenants, subject to customary carve outs, and includes financial covenants related to liquidity and net product revenue, with the latter beginning with the period ending September 30, 2024. The Company believes it is in compliance with the terms included within the Innovatus Loan as of JuneÂ 30, 2024. The Innovatus Loan is secured by perfected first priority liens on the Company's assets, including a commitment by the Company to not allow any liens to be placed upon the Company's intellectual property.In connection with the issuance of the Innovatus Loan, we recorded a debt discount of $1.3 million and capitalized debt issuance costs of $0.6 million. The discount and issuance costs will be amortized over the life of the Innovatus Loan. Interest expense for the Innovatus Loan for the three and six months ended June 30, 2024 was $1.0 million and $1.5 million respectively, and is inclusive of non-cash amortization of the debt discount, debt issuance costs, payable in-kind interest, and accretion of final payment. The carrying amount of the Innovatus Loan approximates fair value given its recent issuance and the interest rate is based on the prime rate. The effective interest rate for the Innovatus Loan was 14.0% as of JuneÂ 30, 2024.Additionally, in connection with entering into the Innovatus Loan, we entered into a Warrant Agreement with Innovatus on February 13, 2024 and issued to Innovatus a warrant to purchase an aggregate of 424,028 shares of the Companyâ€™s common stock at an exercise price of $2.83 per share. The warrants may be exercised on a cashless basis, and are immediately exercisable through the 10th anniversary of the issuance date. At the time of issuance, the Company determined the estimated fair value of the warrants of $0.9 million using the Black-Scholes model. As the warrants represent a freestanding equity instrument, the Company recorded the fair value of the warrants in additional paid-in capital during the first quarter of 2024.The Company accounts for the amortization of the debt discount and issuance costs utilizing the effective interest method. Long-term debt consisted of the following at JuneÂ 30, 2024 (in thousands):June 30, 2024Face value of debt$30,000Â Add: payment in-kind interest180Â Add: amortized exit fee52Â Less: unamortized debt discount(1,261)Less: unamortized debt issuance costs(605)Total long-term debt$28,365Â 20The future principal payments under the Innovatus Loan are as follows (in thousands):Years Ending December 31,2024$â€”Â 2025â€”Â 2026â€”Â 202713,264Â 202815,917Â 20292,653Â Total principal payments31,834Â Add: amortized exit fee52Â Less: uncapitalized payment in-kind interest(1,655)Less: unamortized debt issuance fee(1,261)Less: unamortized debt issuance costs(605)Total long-term debt$28,365Â Note 12. Segment, Geographical and Other Revenue InformationSegment InformationWe previously managed our business as two business segments, Performance Enzymes and Novel Biotherapeutics. During the third and fourth quarters of 2023, we made changes to the structure of our organization in connection with the restructuring of our business that we announced in July 2023, including the discontinuation of investment in certain development programs, primarily in our biotherapeutics business, consolidation of operations to our Redwood City, California headquarters, and headcount reduction. In connection with these organizational structure changes, corresponding changes were made to how our business is managed, how results are reported internally and how our CEO, our chief operating decision maker, assesses performance and allocates resources. As a result of these changes, our previous Performance Enzymes and Novel Biotherapeutics operating segments were combined into a single reportable segment. Effective October 1, 2023, the Company's operations are managed and reported to the CEO on a consolidated basis. The CEO assesses performance and allocated resources based on the consolidated results of operations. We believe that these changes better align internal resources and external go to market activities in order to create a more efficient and effective organizational structure. Under this new organizational and reporting structure, we managed our business as one reportable segment as of DecemberÂ 31, 2023. Comparative prior period disclosures that reflected the previous two segments' information have been revised to conform to this change in our reportable segment.Significant CustomersCustomers that each accounted for 10% or more of our total revenues were as follows:Percentage of Total Revenues for theThree Months Ended June 30,Six Months Ended June 30,20242023202420232Customer A18Â %*16Â %11Â %Customer B18Â %***Customer C18Â %***Customer D15Â %***Customer E*28Â %*17Â %Customer F*18Â %*11Â %Customer G*11Â %**Customer H**24Â %*Customer I***10Â %* Percentage was less than 10%21Customers that each accounted for 10% or more of accounts receivable balances as of the periods presented as follows:Percentage of Accounts Receivables as ofJune 30, 2024December 31, 2023Customer A31Â %12Â %Customer D23Â %*Customer F*21Â %Customer J12Â %*Customer K*13Â %Customer L*12Â %* Percentage was less than 10% Identifiable long-lived assets by location was as follows (in thousands):June 30, 2024December 31, 2023United States$25,878Â $28,624Â 22ITEMÂ 2.MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONSThe following management's discussion and analysis of our financial condition and results of operations should be read in conjunction with the unaudited condensed consolidated financial statements and the related notes thereto included elsewhere in this Quarterly Report on FormÂ 10-Q and the audited consolidated financial statements and notes thereto and management's discussion and analysis of financial condition and results of operations for the year ended DecemberÂ 31, 2023 included in our Annual Report on Form 10-K for the year ended DecemberÂ 31, 2023, as filed with the SEC on FebruaryÂ 28, 2024 (the â€œAnnual Reportâ€). This Quarterly Report on FormÂ 10-Q contains forward-looking statements within the meaning of SectionÂ 21E of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). These statements include, but are not limited to, expectations regarding our strategy, business plans, financial performance and developments relating to our industry. These statements are often identified by the use of words such as â€œmay,â€ â€œwill,â€ â€œexpect,â€ â€œbelieve,â€ â€œanticipate,â€ â€œintend,â€ â€œcould,â€ â€œshould,â€ â€œestimate,â€ or â€œcontinue,â€ and similar expressions or variations. Such forward-looking statements are subject to risks, uncertainties and other factors that could cause actual results and the timing of certain events to differ materially from future results expressed or implied by such forward-looking statements. Factors that could cause or contribute to such differences include, but are not limited to, those discussed in Part II, Item 1A: â€œRisk Factorsâ€ of this Quarterly Report on Form 10-Q and Part I, Item 1A: â€œRisk Factorsâ€ of our Annual Report, as incorporated herein and referenced in Part II, Item 1A: â€œRisk Factorsâ€ of this Quarterly Report on Form 10-Q and elsewhere in this report. The forward-looking statements in this Quarterly Report on FormÂ 10-Q represent our views as of the date of this Quarterly Report on FormÂ 10-Q. We anticipate that subsequent events and developments may cause our views to change. However, while we may elect to update these forward-looking statements at some point in the future, we have no current intention of doing so except to the extent required by applicable law. You should, therefore, not rely on these forward-looking statements as representing our views as of any date subsequent to the date of this Quarterly Report on FormÂ 10-Q.Business OverviewWe are a leading enzyme engineering company leveraging our proprietary CodeEvolverÂ® directed evolution technology platform to discover, develop, enhance, and commercialize novel, high-performance enzymes and other classes of proteins. Enzymes are naturally occurring biological molecules critical to almost all biochemical reactions that sustain life. They can be precisely engineered and optimized for specific functions, and to have particular characteristics, such as an ability to survive environments in which natural enzymes cannot, or to perform (bio)chemical transformations different than those for which they naturally evolved. We focus on leveraging our capacity to enhance the properties and performance of enzymes to drive pivotal improvements across two key focus areas: our foundational, revenue-generating pharmaceutical manufacturing business and our Enzyme-Catalyzed Oligonucleotide (ECO) Synthesisâ„¢ (â€œECO Synthesisâ„¢â€) manufacturing platform, which is currently in development to enable the commercial scale manufacture of RNA interference (â€œRNAiâ€) and other RNA-based therapeutics. Our unique enzymes drive improvements such as higher yields, increased purity, reduced energy usage and waste generation, and improved efficiency in manufacturing. In July 2023, we announced that we discontinued investment in certain development programs, primarily in our novel biotherapeutics business segment and that we are actively exploring options to drive value by potentially monetizing non-core assets within our Biotherapeutics and Life Science portfolios.Within the pharmaceutical manufacturing business, we utilize our CodeEvolverÂ® technology platform to develop optimized enzymes that are used by some of the worldâ€™s largest pharmaceutical companies to reduce their costs and improve the efficiency and productivity of their manufacturing processes for small molecule therapeutics. We also use the CodeEvolverÂ® technology platform to develop enzymes for the synthesis of nucleic acids such as DNA/RNA, including enzymes utilized in our ECO Synthesisâ„¢ manufacturing platform. We demonstrated gram-scale synthesis with the ECO Synthesisâ„¢ manufacturing platform in December 2023 and expect to begin pre-commercial customer testing in 2024. We anticipate that this will be followed by early commercial licenses to the ECO Synthesisâ„¢ manufacturing platform in 2025 and a full commercial launch in 2026.As of JuneÂ 30, 2024, we manage our business as one business segment. For additional information, see Note 12, â€œSegment, Geographical and Other Revenue Informationâ€ in the Notes to Unaudited Condensed Consolidated Financial Statements included in this Quarterly Report.Recent DevelopmentsFinalized Purchase Agreements for Biotherapeutics AssetsIn July 2024, we announced that we entered into an asset purchase agreement with Crosswalk Therapeutics for our investigational Fabry and Pompe disease compounds. Under the terms of the agreement, Codexis is eligible to receive future development and commercial milestone payments in addition to a low-to-mid single-digit percentage net sales-based royalty. 23Both programs were previously part of Codexisâ€™ collaboration agreement with Takeda Pharmaceutical Co. Ltd. (â€œTakedaâ€). In April 2023, Takeda discontinued its efforts in AAV gene therapy, which included these development programs.Additionally, in April 2024 we entered into an asset acquisition agreement with another private biotherapeutics company under which we divested assets related to our investigational homocystinuria and maple syrup urine disease programs, and in June 2024, we entered into an asset sale agreement under which we divested assets related to our programs for the GLB1, GBM1, and SGSH genes, and our investigational AAV capsid technology. Under these agreements, Codexis is eligible to receive milestone and earnout payments.Presentation of Groundbreaking Enzymatic Synthesis Data at TIDES USA Annual Meeting and Launch of RNA Ligase Screening and Optimization ServicesIn May 2024, we announced that we successfully synthesized an oligonucleotide via an enzymatic route using our ECO Synthesisâ„¢ manufacturing platform from a starter oligonucleotide to the inclusion of a conjugation moiety to support RNA-based therapeutics manufacturing. We presented data highlighting this manufacturing milestone at the TIDES USA annual meeting in Boston, Massachusetts held from May 14 to 17, 2024. We also announced the launch of our RNA Ligase Screening and Optimization Services.Significant Collaborative Arrangements UpdateAcquisition AgreementIn December 2023, we entered into an acquisition agreement (the â€œAcquisition Agreementâ€) with NestlÃ© Health Science, pursuant to which we agreed to assign our interests in CDX-7108 (including associated agreements and intellectual property rights) to NestlÃ© Health Science. Under the terms of the Acquisition Agreement, NestlÃ© Health Science will be solely responsible for the continued development and commercialization of CDX-7108, including all associated costs, and Codexis will receive upfront payment, future potential milestone payments and net-sales based royalties. We recognized research and development revenue of $5.0 million during the fourth quarter of 2023 related to the Acquisition Agreement and received the $5.0 million upfront fee in January 2024. Pfizer Enzyme Supply AgreementWe are a party to an Enzyme Supply Agreement (the â€œPfizer Supply Agreementâ€), with Pfizer Ireland Pharmaceuticals, a subsidiary of Pfizer, Inc. (â€œPfizerâ€), covering the manufacture, sale and purchase of CDX-616 for use by Pfizer in the manufacture of nirmatrelvir. Under the terms of the Pfizer Supply Agreement, Pfizer paid us a fee of $25.9 million in August 2022 which was recorded as deferred revenue. Pursuant to the agreement, 90% of the fee ($23.3 million) is creditable against (i) future orders of CDX-616 used to manufacture its PAXLOVIDâ„¢ with shipment dates prior to December 31, 2023, and (ii) fees associated with any new development and licensing agreements with Pfizer entered into prior to April 4, 2023. On March 31, 2023, we entered into a license agreement whereby Pfizer utilized a portion of the $23.3 million credit towards a license to develop future product candidates, for which we recognized $5.0 million as non-cash research and development revenue in the second quarter of 2023. Pfizer's ability to utilize the credit under item (i) above expired on December 31, 2023, and under item (ii) above expired on April 4, 2023. Up to 50% of any portion of the $25.9 million which has not been credited under items (i) and (ii) is creditable against future orders of CDX-616 used to manufacture PAXLOVIDâ„¢ with shipment dates in 2024.No product revenue was recognized from the Pfizer Supply Agreement during the three and six months ended June 30, 2024 and 2023. As of JuneÂ 30, 2024 and DecemberÂ 31, 2023, we had $9.5 million in deferred revenue related to the $25.9 million fee received from Pfizer. Strategic Collaboration AgreementIn October 2017, we entered into the NestlÃ© Strategic Collaboration Agreement (the â€œNestle SCAâ€) pursuant to which we and NestlÃ© Health Science have collaborated to leverage the CodeEvolverÂ® protein engineering technology platform to develop novel enzymes for NestlÃ© Health Scienceâ€™s established Consumer Care and Medical Nutrition business areas.In January 2020, we entered into a development agreement with NestlÃ© Health Science pursuant to which we and NestlÃ© Health Science have collaborated to advance a lead candidate discovered through our NestlÃ© SCA, CDX-7108, targeting exocrine pancreatic insufficiency, into preclinical and early clinical studies. We, together with NestlÃ© Health Science, initiated a Phase 1 clinical trial of CDX-7108 in the fourth quarter of 2021, and on February 23, 2023, we and NestlÃ© Health Science announced interim results. In July 2023, we announced plans to discontinue our development support of CDX-7108. Both the NestlÃ© SCA and development agreement were terminated under the terms of the CDX-7108 Acquisition Agreement with NestlÃ© Health Science.24Under the NestlÃ© SCA and the development agreement, we recognized nil in research and development fees for the three and six months ended June 30, 2024, compared to $1.7 million and $3.6 million for the three and six months ended June 30, 2023, respectively.License AgreementIn February 2024, we entered into an agreement with Roche Sequencing Solutions, Inc. (â€œRocheâ€) for an exclusive, global license for the Companyâ€™s newly engineered double-stranded DNA (dsDNA) ligase for next-generation sequencing (NGS) library preparation and the Companyâ€™s EvoT4â„¢ DNA ligase. Under the terms of the deal, Codexis will receive upfront and technical milestone payments. This deal superseded the prior exclusive license on the EvoT4â„¢ DNA ligase. We recognized research and development revenue of $6.0 million during the first quarter of 2024 related to the license agreement.Results of OperationsThe following table shows the amounts from our unaudited condensed consolidated statements of operations for the periods presented (in thousands, except percentages):Â Three Months Ended June 30,ChangeSix Months Ended June 30,ChangeÂ 20242023$%20242023$%Revenues:Product revenue$6,259Â $11,048Â $(4,789)(43)%$15,810Â $19,412Â $(3,602)(19)%Research and development revenue1,720Â 10,275Â (8,555)(83)%9,242Â 14,893Â (5,651)(38)%Total revenues7,979Â 21,323Â (13,344)(63)%25,052Â 34,305Â (9,253)(27)%Costs and operating expenses:Cost of product revenue3,462Â 3,178Â 284Â 9Â %8,317Â 7,698Â 619Â 8Â %Research and development11,413Â 17,334Â (5,921)(34)%22,659Â 33,988Â (11,329)(33)%Selling, general and administrative15,671Â 13,365Â 2,306Â 17Â %28,531Â 28,765Â (234)(1)%Restructuring chargesâ€”Â 72Â (72)(100)%â€”Â 145Â (145)(100)%Asset impairment and other charges165Â â€”Â 165Â 100Â %165Â â€”Â 165Â 100Â %Total costs and operating expenses30,711Â 33,949Â (3,238)(10)%59,672Â 70,596Â (10,924)(15)%Loss from operations(22,732)(12,626)(10,106)80Â %(34,620)(36,291)1,671Â (5)%Interest income972Â 1,121Â (149)(13)%1,881Â 2,209Â (328)(15)%Interest and other expense, net(985)(9)(976)10,844Â %(1,500)(33)

(1,467)4,445Â %Loss before income taxes(22,745)(11,514)(11,231)98Â %(34,239)(34,115)(124)â€”Â %Provision for income taxes10Â 9Â 1Â 11Â %21Â 25Â (4)(16)%Net loss$(22,755)$(11,523)$(11,232)97Â %$(34,260)$(34,140)$(120)â€”Â %RevenuesOur revenues consisted of product revenue, research and development revenue, and royalties and license revenue as follows:â€¢Product revenue consist of sales of biocatalysts, pharmaceutical intermediates, and CodexÂ® biocatalyst panels and kits.â€¢Research and development revenue include license, technology access and exclusivity fees, research services fees, milestone payments, royalties, optimization and screening fees.25Revenues are as follows (in thousands, except percentages):Three Months Ended June 30,ChangeSix Months Ended June 30,Change20242023$%20242023$%Product revenue$6,259Â $11,048Â $(4,789)(43)%$15,810Â $19,412Â $(3,602)(19)%Research and development revenue1,720Â 10,275Â (8,555)(83)%9,242Â 14,893Â (5,651)(38)%Total revenues$7,979Â $21,323Â $(13,344)(63)%$25,052Â $34,305Â $(9,253)(27)%Revenues typically fluctuate on a quarterly basis due to the variability in our customers' manufacturing schedules and the timing of our customers' clinical trials. In addition, we have limited internal capacity to manufacture enzymes. As a result, we are dependent upon the performance and capacity of third-party manufacturers for the commercial scale manufacturing of the enzymes used in our pharmaceutical and fine chemicals business.We accept purchase orders for deliveries covering periods from one day up to 14 months from the date on which the order is placed. However, some of our purchase orders can be revised or cancelled by the customer without penalty. Considering these industry practices and our experience, we do not believe the total of customer purchase orders outstanding (backlog) provides meaningful information that can be relied on to predict actual sales for future periods.Total revenues decreased by $13.3 million and by $9.3 million in the three and six months ended June 30, 2024, respectively, compared to the same periods in 2023 primarily due to lower product revenue and lower research and development revenue.Product revenue decreased by $4.8 million and $3.6 million in the three and six months ended June 30, 2024, respectively, compared to the same periods in 2023, primarily due to lower sales of branded pharmaceutical products and with the prior year benefiting from the $2.9 million release of prior periods' product revenue deferrals during the second quarter of 2023 due to early termination of the enzyme supply obligations to a customer for a deprioritized asset related to a prior restructuring of our business.Research and development revenue decreased by $8.6 million in the three months ended June 30, 2024 compared to the same period in 2023 primarily due to the recognition of $5.7 million in non-cash revenue related to our license and master service agreements with Pfizer in the second quarter of 2023, $1.7 million lower research and development fees from NestlÃ© Health Science under the NestlÃ© SCA and development agreement and $1.1 million lower revenue from both legacy and existing collaboration agreements being recognized in 2024 as compared to the same period in the prior year. Research and development revenue decreased by $5.7 million in the six months ended June 30, 2024 compared to the same period in 2023, primarily due to the recognition of $5.7 million in non-cash revenue related to our license and master service agreements with Pfizer in the six months ended June 30, 2023, $3.6 million lower research and development fees from NestlÃ© Health Science, $1.8 million lower revenue from Takeda under a Strategic Collaboration and License Agreement and $2.3 million lower revenue from other legacy collaboration agreements being recognized in 2024 as compared to the same period in 2023. This was offset by $6.0 million higher revenue from our licensing agreement with Roche entered into in February 2024 and $1.8 million higher revenue from existing collaboration agreements recognized in the current year. Cost and Operating ExpensesThe following table shows the amounts of our cost of product revenue, research and development expense, selling, general and administrative expense, and restructuring charges from our unaudited condensed consolidated statements of operations for the periods presented (in thousands, except percentages):Three Months Ended June 30,ChangeSix Months Ended June 30,Change20242023$%20242023$%Cost of product revenue$3,462Â $3,178Â $284Â 9Â %$8,317Â $7,698Â $619Â 8Â %Research and development11,413Â 17,334Â (5,921)(34)%22,659Â 33,988Â (11,329)(33)%Selling, general and administrative15,671Â 13,365Â 2,306Â 17Â %28,531Â 28,765Â (234)(1)%Restructuring chargesâ€”Â 72Â (72)(100)%â€”Â 145Â (145)(100)%Asset impairment and other charges165Â â€”Â 165Â 100Â %165Â â€”Â 165Â 100Â %Total costs and operating expenses$30,711Â $33,949Â $(3,238)(10)%$59,672Â $70,596Â $(10,924)(15)%26Cost of Product Revenue and Product Gross MarginThe following table shows the amounts of our product revenue, cost of product revenue, product gross profit and product gross margin from our unaudited condensed consolidated statements of operations for the periods presented (in thousands, except percentages):Three Months Ended June 30,ChangeSix Months Ended June 30,Change20242023$%20242023$%Product revenue$6,259$11,048$(4,789)(43)%$15,810$19,412$(3,602)(19)%Cost of product revenue(1)3,4623,178284Â 9Â %8,3177,698619Â 8Â %Product gross profit$2,797$7,870$(5,073)(64)%$7,493$11,714$(4,221)(36)%Product gross margin (%)(2)45Â %71Â %47Â %60Â %(1) Cost of product revenue consists of both internal and third-party fixed and variable costs, including materials and supplies, labor, facilities and other overhead costs associated with our product revenue.(2) Product gross margin is used as a performance measure to provide additional information regarding our results of operations on a consolidated basis.Cost of product revenue increased by $0.3 million and $0.6 million in the three and six months ended June 30, 2024, respectively, compared to the same periods in 2023, primarily due to variations in product mix. Product gross margins were 45% and 47% in the three and six months ended June 30, 2024, respectively, compared to 71% and 60% in the corresponding periods in 2023 due to variability in the product mix and with 2023 benefiting from revenue recognized with no related cost in the second quarter of 2023 related to the early termination of an enzyme supply agreement with a customer for a deprioritized asset related to a prior restructuring of our business.Research and Development ExpensesResearch and development expenses consist of costs incurred for internal projects as well as collaborative research and development activities. These costs primarily consist of (i) employee-related costs, which include salaries and other personnel-related expenses (including stock-based compensation), (ii) various allocable expenses, which include occupancy-related costs, supplies, depreciation of facilities and laboratory equipment, and (iii) external costs. Research and development expenses are expensed when incurred.Research and development expenses decreased by $5.9 million, or 34%, in the three months ended June 30, 2024 compared to the same period in 2023 primarily due to a $2.3 million decrease in costs associated with lower headcount, $1.8 million decrease from lower use of outside services related to Chemistry, Manufacturing and Controls (â€œCMCâ€) and lower regulatory expenses, $1.3 million decrease in lease and facilities costs due to the assignment of our San Carlos facility lease during the fourth quarter of 2023, and $0.2 million lower stock-based compensation costs. The decrease in research and development expenses of $11.3 million, or 33%, in the six months ended June 30, 2024, compared to the same period in 2023, was primarily due to a $4.8 million decrease in costs associated with lower headcount, $3.0 million decrease in CMC and outside services, $2.8 million decrease from lower lease and facilities associated costs, and $0.5 million lower lab supply costs.Selling, General and Administrative ExpensesSelling, general and administrative expenses consist of employee-related costs, which include salaries and other personnel-related expenses (including stock-based compensation), hiring and training costs, consulting and outside services expenses (including audit and legal counsel related costs), marketing costs, building lease costs, and depreciation expenses and amortization expenses.Selling, general and administrative expenses increased by $2.3 million, or 17%, during the three months ended June 30, 2024, compared to the same period in 2023 primarily due to $2.1 million higher stock-based compensation expense, $0.7 million higher legal expense and $0.2 million increase in facilities associated costs, partially offset by a $0.9 million decrease in costs associated with lower headcount. Selling, general and administrative expenses decreased by $0.2 million, or 1%, during the six months ended June 30, 2024 as compared to the same period in 2023 primarily due to a $2.9 million decrease in costs associated with lower headcount and $0.8 million in lower consulting and outside services, partially offset by $2.5 million higher stock-based compensation expense, a $0.8 million increase in legal costs, and a $0.3 million increase in facilities associated costs.27Restructuring ChargesRestructuring charges consist of one-time employee severance and other termination benefits due to workforce reduction plans that were initiated in the prior years. There were no restructuring charges recognized in the three and six months ended June 30, 2024. Restructuring charges were $0.1 million and $0.2 million for the three and six months ended June 30, 2023, respectively.Asset Impairment and Other ChargesAsset impairment and other charges for the three and six months ended June 30, 2024 was due to a $0.2 million write-down on assets held for sale. Interest Income and Interest and Other Expense, net (in thousands, except percentages):Three Months Ended June 30,ChangeSix Months Ended June 30,Change20242023$%20242023$%Interest income$972Â $1,121Â $(149)(13)%$1,881Â $2,209Â $(328)(15)%Interest and other expense, net(985)(9)(976)10,844Â %(1,500)(33)(1,467)4,445Â %Total other income (expense), net(13)1,112Â $(1,125)(101)%$381Â $2,176Â $(1,795)(82)%Interest IncomeInterest income decreased by $0.1Â million and $0.3 million in the three and six months ended June 30, 2024, respectively, compared to the same periods in 2023, primarily due to lower average cash balances.Interest and Other Expense, netInterest and other expense, net increased by $1.0 million and $1.5 million in the three and six months ended June 30, 2024, respectively, compared to the same periods in 2023, primarily due to interest related to long-term debt.Provision for Income Taxes (in thousands, except percentages):Three Months Ended June 30,ChangeSix Months Ended June 30,Change20242023$%20242023$%Provision for income taxes$10Â $9Â $1Â 11Â %$21Â $25Â $(4)(16)%The provision for income taxes for the three and six months ended June 30, 2024 and 2023, was primarily due to the accrual of interest and penalties on historic uncertain tax positions.Net LossNet loss for the three months ended June 30, 2024 was $22.8 million, or a net loss per basic and diluted share of $0.32. This compared to a net loss of $11.5 million, or a net loss per basic and diluted share of $0.17, for the three months ended June 30, 2023. The increase in net loss was primarily related to lower revenue, partially offset by lower operating expenses during the three months ended June 30, 2024.Net loss for the six months ended June 30, 2024 was $34.3 million, or a net loss per basic and diluted share of $0.49. This compared to a net loss of $34.1 million, or a net loss per basic and diluted share of $0.51, for the six months ended June 30, 2023. The increase in net loss was primarily related to lower revenue and higher interest expenses, partially offset by lower operating expenses in 2024.28LIQUIDITY AND CAPITAL RESOURCESLiquidity is the measurement of our ability to meet working capital needs and to fund capital expenditures. We have historically funded our operations primarily through cash generated from operations, stock option exercises and public and private offerings of our common stock. In addition, pursuant to our five-year term loan and security agreement (the â€œLoan Agreementâ€) with Innovatus Life Sciences Lending Fund I, LP (â€œInnovatusâ€), an affiliate of Innovatus Capital Partners, LLC, we borrowed $30.0 million from Innovatus, as Lender, on February 13, 2024 and may become eligible to borrow up to an additional $10.0 million upon the achievement of certain financial milestones. The Loan Agreement provides for an aggregate principal amount of up to $40.0 million and with a maturity date of February 13, 2029 (the â€œInnovatus Loanâ€).We actively manage our cash usage and investment of liquid cash to ensure the maintenance of sufficient funds to meet our working capital needs. Our cash and cash equivalents are held in U.S. banks.Our primary uses of capital for the foreseeable future, including the next 12 months, are for compensation and related expenses, research and development expenses including manufacturing costs, laboratory and related supplies, legal and other regulatory expenses, and general overhead costs.The following summarizes our cash and cash equivalents and short-term investments balances and working capital as of JuneÂ 30, 2024 and DecemberÂ 31, 2023 (in thousands):June 30, 2024December 31, 2023Cash and cash equivalents$18,595Â $65,116Â Short-term investments$54,604Â $â€”Â Working capital$60,859Â $57,636Â Sources of CapitalIn addition to our existing cash and cash equivalents, short-term investments and revenue generated through our existing operations, we are eligible to earn milestone and other contingent payments for the achievement of defined collaboration objectives under our collaboration agreements. Our ability to earn these milestone and contingent payments and the timing of achieving these milestones is primarily dependent upon the outcome of our collaboratorsâ€™ research and development activities and is uncertain at this time.We have historically experienced negative cash flows from operations as we continue to invest in key technology development projects and improvements to our CodeEvolverÂ® technology platform, develop and commercialize new and existing products including our ECO Synthesisâ„¢ manufacturing platform and expand our business development and collaboration with new customers. Our cash flows from operations will continue to be affected principally by product sales and product gross margins, sales from licensing our technology to major pharmaceutical companies, and collaborative research and development services provided to customers, as well as our headcount costs, primarily in research and development. Our primary source of cash flows from operating activities is cash receipts from our customers for purchases of products, collaborative research and development services, and licensing our technology to major pharmaceutical companies. Our largest uses of cash from operating activities are for employee-related expenditures, rent payments, inventory purchases to support our product sales and non-payroll research and development costs.Loan Agreement and Term LoansOn February 13, 2024, we entered into the Loan Agreement with Innovatus consisting of two tranches, of which the first tranche of $30.0 million was completed upon execution of the Loan Agreement. We will be eligible to draw on the second tranche of $10.0 million upon achievement of certain milestones including certain pre-specified revenue thresholds. The Loan Agreement carries an interest-only period of 36 months and will bear an interest at a floating rate of the sum of (a) the greater of (i) prime rate and (ii) 7.50%, plus (b) 3.25%. Sales AgreementsIn May 2021, we entered into an Equity Distribution Agreement (â€œEDAâ€) with Piper Sandler & Co (â€œPSCâ€), under which PSC, as our exclusive agent, at our discretion and at such times that we may determine from time to time, may sell over a three-year period from the execution of the EDA up to a maximum of $50.0 million of shares of our common stock. In 2023, 3,079,421 shares of our common stock were issued and sold pursuant to the EDA, all during the first half of 2023, and we received net proceeds of $7.9 million. On April 24, 2024, we terminated the EDA.29On May 2, 2024, we entered into a Controlled Equity Offeringâ„¢ Sales Agreement (the â€œCantor Sales Agreementâ€) with Cantor Fitzgerald & Co., as sales agent (â€œCantorâ€), under which Cantor, at our discretion and at such times that we may determine from time to time, may sell up to a maximum of $75.0 million of shares of our common stock. Under the terms of the Cantor Sales Agreement, Cantor may sell the shares at market prices by any method that is deemed to be an â€œat the market offeringâ€ as defined in Rule 415 under the Securities Act. On May 2, 2024, we filed a registration statement on Form S-3 registering the offer and sale of these shares under the Securities Act which became effective on May 14, 2024. We will pay a commission of up to 3.0% of gross sales proceeds of any common stock sold under the Cantor Sales Agreement. We have made no sales under the Cantor Sales Agreement and as of JuneÂ 30, 2024, $75.0 million of shares remained available for sale under the Cantor Sales Agreement.Sales of our common stock under these arrangements could be subject to business, economic or competitive uncertainties and contingencies, many of which may be beyond our control, and which could cause actual results from the sale of our common stock to differ materially from expectations.LiquidityWe believe that our existing cash and cash equivalents, combined with our future expectations for product revenues, research and development revenue, and expense management will provide adequate funds for ongoing operations, planned capital expenditures and working capital requirements for at least the next 12 months. We have based this estimate on assumptions that may prove to be wrong, and we could utilize our capital resources sooner than we expect. However, we may need additional capital if our current plans and assumptions change. In addition, we may choose to seek other sources of capital even if we believe we have generated sufficient cash flows to support our operating needs. Our need for additional capital will depend on many factors, including the financial success of our business, the spending required to develop and commercialize new and existing products including our ECO Synthesisâ„¢ manufacturing platform, the effect of any acquisitions of other businesses, technologies or facilities that we may make or develop in the future, our spending on new market opportunities, and the potential costs for the filing, prosecution, enforcement and defense of patent claims, if necessary. If our capital resources are insufficient to meet our capital requirements, and we are unable to enter into or maintain collaborations with partners that are able or willing to fund our development efforts or commercialize any products that we develop or enable, we will have to raise additional funds to continue the development of our technology and products and complete the commercialization of products, if any, resulting from our technologies. If future financings involve the issuance of equity securities, our existing stockholders would suffer dilution. In addition, under the Loan Agreement, we are subject to restrictive covenants that limit our ability to conduct our business and could be subject to additional covenants to the extent we seek other debt financing in the future. We may not be able to raise sufficient additional funds on terms that are favorable to us, if at all. If we fail to raise sufficient funds and fail to generate sufficient revenues to achieve planned gross margins and to control operating costs, our ability to fund our operations, take advantage of strategic opportunities, develop products or technologies, or otherwise respond to competitive pressures could be significantly limited. If this happens, we may be forced to delay or terminate development of new products or services, such as our ECO Synthesisâ„¢ manufacturing platform, or the commercialization of products resulting from our technologies, curtail or cease operations or obtain funds through collaborative and licensing arrangements that may require us to relinquish commercial rights, or grant licenses on terms that are not favorable to us. If adequate funds are not available, we will not be able to successfully execute our business plan or continue our business.Cash FlowsThe following is a summary of cash flows for six months ended June 30, 2024 and 2023 (in thousands):Â Six Months Ended June 30,20242023Net cash used in operating activities$(19,957)$(25,299)Net cash used in investing activities(55,650)(4,855)Net cash provided by financing activities29,084Â 8,275Â Net decrease in cash, cash equivalents and restricted cash$(46,523)$(21,879)Cash Flows from Operating ActivitiesThe $5.3 million decrease in net cash used in operating activities for the six months ended June 30, 2024 as compared to the same period in 2023, was primarily due to the net effect of decreases in cash paid for operating expenses, primarily driven by the restructuring of our business in 2023 which included the assignment of our San Carlos facility lease in the fourth quarter of 2023, and changes in operating assets and liabilities.30Cash Flows from Investing ActivitiesThe $50.8 million increase in net cash used in investing activities for the six months ended June 30, 2024 as compared to the same period in 2023, was primarily due to higher cash utilized for

purchases of short-term investments, partially offset by lower purchases of property and equipment during the period. Cash Flows from Financing ActivitiesThe $20.8 million increase in net cash provided by financing activities for the six months ended June 30, 2024 as compared to the same period in 2023 was primarily due to proceeds from the Innovatus Loan in February 2024, partially offset by proceeds from issuance of common stock under the EDA during the six months ended June 30, 2023.CRITICAL ACCOUNTING POLICIES AND ESTIMATESThe preparation of financial statements in conformity with generally accepted accounting principles requires management to make judgments, estimates and assumptions in the preparation of our consolidated financial statements and accompanying notes. Actual results could differ from those estimates. There have been no material changes to our critical accounting policies or estimates during the three and six months ended June 30, 2024 from those discussed in our Annual Report.31ITEMÂ 3.QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISKMarket Risk ManagementOur cash flows and earnings are subject to fluctuations due to changes in foreign currency exchange rates, interest rates and other factors. These market risk exposures are disclosed in Part II, Item 7A of our Annual Report.Interest Rate SensitivityOur unrestricted cash, cash equivalents, and short-term investments in marketable securities total $73.2 million as of JuneÂ 30, 2024. We primarily invest these amounts in money market funds and short-term debt which are held for working capital purposes. We do not enter into investments for trading or speculative purposes. As of JuneÂ 30, 2024, the effect of a hypothetical 10% decrease in market interest rates would have a $0.3 million impact on a potential loss in future interest income and cash flows.We are also exposed to market risk from changes in interest rates as a result of our indebtedness under the Innovatus Loan. At JuneÂ 30, 2024, we had $30.0 million principal amount outstanding under the Innovatus Loan. The floating per annum interest rate of the Innovatus Loan is equal to the sum of (a) the greater of (i) prime rate published in the Money Rates section of the Wall Street Journal and (ii) 7.50%, plus (b) 3.25%; provided that, at the election of the Company, up to 2.00% of such rate shall be payable in-kind until the third anniversary of the closing date. An immediate 10% change in the prime interest rate would result in a $0.3 million impact on our results of operations over the next twelve months from JuneÂ 30, 2024. Foreign Currency RiskOur results of operations and cash flows are subject to fluctuations due to changes in foreign currency exchange rates. In periods when the United States dollar (â€œUSDâ€) declines in value as compared to the foreign currencies in which we incur expenses, our foreign-currency based expenses increase when translated into USD. Although substantially all of our sales are denominated in USD, future fluctuations in the value of the USD may affect the price competitiveness of our products outside the United States. Our most significant foreign currency exposure is due to non-functional currency denominated monetary assets, primarily currencies denominated in other than their functional currency. These non-functional currency denominated monetary assets are subject to re-measurement which may create fluctuations in interest and other expense, net, a component in our consolidated statement of operations and in the fair value of the assets in the consolidated balance sheets. As of JuneÂ 30, 2024, the effect of a hypothetical 10% unfavorable change in exchange rates on currencies denominated in other than their functional currency would result in a potential loss in future earnings in our consolidated statement of operations and a reduction in the fair value of the assets of approximately $41 thousand.Investment in Non-Marketable Equity SecuritiesWe own investments in non-marketable equity securities without readily determinable fair values. We may value these equity securities based on significant recent arms-length equity transactions with sophisticated non-strategic unrelated investors, providing the terms of these security transactions are substantially similar to the security transactions terms between the investors and us. The impact of the difference in transaction terms on the market value of the portfolio company may be difficult or impossible to quantify.32ITEMÂ 4.CONTROLS AND PROCEDURESEvaluation of Disclosure Controls and ProceduresWe maintain disclosure controls and procedures and internal controls that are designed to provide reasonable assurance that information required to be disclosed by us in the reports we file or submit under the Exchange Act is recorded, processed, summarized, and reported within the time periods specified in the SEC's rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.Our management, under the supervision of our Chief Executive Officer and Chief Financial Officer and with the participation of our disclosure committee, evaluated the effectiveness of our disclosure controls and procedures as defined by Rules 13a-15(e) and 15d-15(e) of the Exchange Act. Based on this review, our Chief Executive Officer and Chief Financial Officer concluded that these disclosure controls and procedures were effective as of JuneÂ 30, 2024 at a reasonable assurance level.Changes in Internal Control over Financial ReportingThere were no changes in our internal control over financial reporting identified in connection with the evaluation required by paragraph (d) of Exchange Act Rules 13a-15 or 15d-15 that occurred during our last fiscal quarter that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting. Inherent Limitations on Effectiveness of ControlsIn designing and evaluating the disclosure controls and procedures, management recognizes that any controls and procedures, even if determined effective and no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives to prevent or detect misstatements. In addition, the design of disclosure controls and procedures must reflect the fact that there are resource constraints, and that management is required to apply judgment in evaluating the benefits of possible controls and procedures relative to their costs. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.33PARTÂ II. OTHER INFORMATIONITEMÂ 1.LEGAL PROCEEDINGSWe are not currently a party to any material pending litigation or other material legal proceedings.ITEMÂ 1A.RISK FACTORSYou should carefully consider the risks described below together with the other information set forth in this Quarterly Report, which could materially affect our business, financial condition or future results. The risks described below are not the only risks facing our company. Risks and uncertainties not currently known to us or that we currently deem to be immaterial also may materially adversely affect our business, financial condition and/or operating results. Additional discussion of the material risks and uncertainties summarized in this risk factor summary, as well as certain other risks and uncertainties that we face, can be found in this section. RISK FACTORS SUMMARYThe following is a summary of the principal factors that cause an investment in the Company to be speculative or risky:â€¢We have a history of net losses and we may not achieve or maintain profitability. â€¢Biotherapeutic programs are highly regulated and expensive.â€¢We are dependent on a limited number of customers.â€¢Our product supply agreements with customers have finite duration and may not be extended or renewed.â€¢The demand for our product depends in part on our customers' research and development and the clinical and market success of their products.â€¢With respect to customers purchasing our products for the manufacture of API, the termination or expiration of such patent protection may materially and adversely affect our revenues, financial condition or results of operations.â€¢We are dependent on a limited number of contract manufacturers for large scale production of substantially all of our enzymes.â€¢We are dependent on our collaborators, and our failure to successfully manage these relationships could prevent us from developing and commercializing many of our products.â€¢If we are unable to develop and commercialize new products for the target markets, our business and prospects will be harmed. â€¢We have invested significant resources to enable fully enzymatic nucleic acid synthesis, which is based on novel ideas and technologies that are largely unproven.â€¢Future revenues from our sales of CDX-616 to Pfizer are subject to a number of factors which are outside of our control and may not materialize.â€¢Ethical, legal and social concerns about genetically engineered products and processes could limit or prevent the use of our products, processes, and technologies and limit our revenues.â€¢We have recently enhanced our strategic focus to concentrate on certain programs and business lines. As a result of this refined focus on returning the foundational, revenue-generating pharmaceutical manufacturing business and the ECO Synthesisâ„¢ manufacturing platform, we may fail to capitalize on other opportunities that may be more profitable or for which there is a greater likelihood of success.â€¢Given our recent change in strategic direction, we may receive limited revenue or no future value from certain of our existing license agreements.â€¢We use hazardous materials in our business, and we must comply with environmental laws and regulations.34â€¢As a public reporting company, we are subject to rules and regulations established from time to time by the SEC and Nasdaq regarding our internal controls over financial reporting. We may not complete needed improvements to our internal controls over financial reporting in a timely manner, or these internal controls may not be determined to be effective, which may adversely affect investor confidence in our company and, as a result, the value of our common stock and your investment.â€¢We may need additional capital in the future in order to expand our business.â€¢We may not be able to comply with the terms of our Loan Agreement with Innovatus. â€¢Our ongoing efforts to deploy our technology in the life science tools market may fail.â€¢Even if our customers or collaborators obtain regulatory approval for any products utilizing our enzymes, such products will remain subject to ongoing regulatory requirements, which may result in significant additional expense.â€¢If we or our customers fail to comply with certain healthcare laws, including fraud and abuse laws, we could face substantial penalties and our business, results of operations, financial condition and prospects could be adversely affected.â€¢Our efforts to prosecute, maintain, protect and/or defend our intellectual property rights may not be successful.â€¢Our ability to compete may decline if we do not adequately prosecute, maintain, protect and/or defend our proprietary technology, products or services or our intellectual property rights.â€¢Third parties may claim that we are infringing, violating or misappropriating their intellectual property rights, which may subject us to costly and time-consuming litigation and prevent us from developing or commercializing our technology, products or services.â€¢We may be involved in lawsuits to protect or enforce our intellectual property rights, which could be expensive, time-consuming and unsuccessful.â€¢We may not be able to enforce our intellectual property rights throughout the world.â€¢If our biocatalysts are stolen, misappropriated or reverse engineered, others could use these biocatalysts to produce competing products.â€¢We are subject to anti-takeover provisions in our certificate of incorporation and bylaws and under Delaware law that could delay or prevent an acquisition of our company.â€¢Market and economic conditions may negatively impact our business, financial condition, and share price.â€¢Business interruptions resulting from disasters or other disturbances could delay us in the process of developing our products and could disrupt our sales.â€¢Evolving expectations around environmental, social and governance matters may expose us to reputational and other risks.35Risks Related to Our Business and Strategy We have a history of net losses and we may not achieve or maintain profitability.We have incurred net losses since our inception, including losses of $76.2Â million, $33.6Â million, and $21.3Â million for the years ended December 31, 2023, 2022, and 2021, respectively, and $34.3 million and $34.1 million for the six months ended June 30, 2024 and 2023, respectively. As of JuneÂ 30, 2024 and DecemberÂ 31, 2023, we had an accumulated deficit of $531.8 million and $497.5 million, respectively. If we are unable to continue to successfully develop and commercialize products in our pharmaceutical manufacturing business, increase sales of existing products and services, develop and commercialize our ECO Synthesisâ„¢ manufacturing platform, and or develop new products or services, or otherwise expand our business, whether through new or expanded collaborations or other products and services, our net losses may increase and we may never achieve profitability. In addition, some of our agreements, including the agreements with GSK, Merck, Novartis, NestlÃ© Health Science, Aldevron, Roche and Crosswalk Therapeutics provide for milestone payments, usage payments, and/or future royalty or other payments, which we will only receive if we and/or our collaborators develop and commercialize products or achieve technical milestones. We also intend to continue to fund the development of additional proprietary performance enzyme products and advance new technologies like our ECO Synthesisâ„¢ manufacturing platform. There can be no assurance that any of these products or services will become commercially viable or that we will ever achieve profitability on a quarterly or annual basis. If we fail to achieve profitability, or if the time required to achieve profitability is longer than we anticipate, we may not be able to continue our business. Even if we do achieve profitability, we may not be able to sustain or increase profitability on a quarterly or annual basis. Biotherapeutic programs are highly regulated and expensive, and our enzyme products are complex and subject to quality control requirements. The ability of our customers, future customers or collaborators, including any company developing RNAi and other RNA-based therapeutics, to advance product candidates utilizing our products to clinical trials and to ultimately receive regulatory approvals is highly uncertain.Although we are no longer developing our own portfolio of biotherapeutics product candidates, we continue to develop enzyme products, including our ECO Synthesisâ„¢ manufacturing platform, that may be used by our customers, future customers or collaborators in connection with their biotherapeutic product candidates. The successful development of biotherapeutic candidates involves many risks and uncertainties, requires long timelines and may lead to uncertain results. Our customers are subject to extensive regulations by the FDA and similar regulatory authorities in other countries for conducting clinical trials and commercializing products for therapeutic, vaccine or diagnostic use. These regulations result in our customers imposing quality requirements on us for the manufacture of our enzyme products through supplier qualification processes and customer contracts and specifications.In order to market a biologic or drug product in the United States, our customers, future customers or collaborators must undergo the following process required by the FDA: â€¢completion of extensive preclinical laboratory tests and preclinical animal studies, all performed in accordance with the FDA's Good Laboratory Practice requirements;â€¢submission to the FDA of an Investigational New Drug Application (â€œINDâ€), which must become effective before human clinical studies may begin in the United States;â€¢approval by an independent institutional review board (â€œIRBâ€) representing each clinical site before the clinical study may be initiated at the site;â€¢performance of adequate and well-controlled human clinical studies in accordance with Good Clinical Practice (â€œGCPâ€) requirements to establish the safety, purity and potency (or efficacy) of the product candidate for each proposed indication;â€¢preparation of and submission to the FDA of a Biologics License Application (â€œBLAâ€) or New Drug Application (â€œNDAâ€)after completion of all clinical studies;â€¢potential review of the product candidate by an FDA advisory committee;â€¢satisfactory completion of an FDA pre-approval inspection of the manufacturing facilities where the product candidate is produced to assess compliance with current Good Manufacturing Practice (â€œcGMPâ€) requirements; â€¢FDA review and approval of a BLA or NDA prior to any commercial marketing or sale of the product in the United States; and36â€¢any post-approval requirements, if applicable.The regulatory approval processes of the FDA and comparable foreign authorities are lengthy, time consuming and the results are inherently unpredictable. If our customers, future customers or collaborators are ultimately unable to obtain regulatory approval for their biotherapeutic product candidates utilizing our enzyme products, our business may be harmed. In addition, if our customers, future customers or collaborators fail to comply with applicable FDA or other regulatory requirements at any time during the drug development process, clinical testing, the approval process or after approval, they may become subject to administrative or judicial penalties, including the FDAâ€™s refusal to approve a pending application, withdrawal of an approval, warning letters, product recalls and additional enforcement actions, any of which may have an adverse effect on our financial condition.We believe our enzyme products are exempt from compliance with the Food, Drug, and Cosmetic Act (â€œFDCAâ€) and the current GMP (â€œcGMPâ€) regulations of the FDA, as our products are further processed and incorporated into final drug or biologic products by our customers and we do not make claims related to their safety or effectiveness. Our products are manufactured following the voluntary quality standards of ISO 9001:2015. In the event we, or our suppliers, produce products that fail to comply with required quality standards, we may incur delays in fulfilling orders, write-downs, damages resulting from product liability claims and harm to our reputation.In the future, our products could become subject to more onerous regulation, or the FDA could disagree with our assessment that our enzyme products are exempt from current GMP regulations. In addition, the FDA could conclude that the products we provide to our customers are actually subject to the pharmaceutical, drug or biologic quality-related regulations for manufacturing, processing, packing or holding of drugs, biologics, or finished pharmaceuticals, and could take enforcement action against us, including requiring us to stop distribution of our products until we are in compliance with applicable regulations, which would reduce our revenue, increase our costs and adversely affect our business, prospects, results of operations and financial condition.We are dependent on a limited number of customers. Although we continue to expand our customer base, our current revenues are derived from a limited number of key customers. For the six months ended June 30, 2024 and 2023, customers that each individually contributed 10% or more of our total revenue accounted for 40% and 49% of our total revenues, respectively. We expect a limited number of customers to continue to account for a significant portion of our revenues for the foreseeable future. This customer concentration increases the risk of quarterly fluctuations in our revenues and operating results. The loss or reduction of business from one or a combination of our significant customers could, materially adversely affect our revenues, financial condition and results of operations.Our product supply agreements with customers have finite duration, may not be extended or renewed and generally do not require the customer to purchase any particular quantity or quantities of our products.Our product supply agreements with customers generally have a finite duration, may not be extended or renewed and generally do not require the customer to purchase any particular quantity or quantities of our products. While our products are not considered commodities and may not be easily substituted for by our customers, particularly when our products are used in the manufacture of active pharmaceutical ingredients, our customers may nevertheless terminate or fail to renew their product supply agreements with us or significantly curtail their purchases thereunder under certain circumstances. We are working to develop new relationships with existing or new customers, but despite these efforts we may not, at the time that any of our existing product supply agreements expire or are terminated, or purchases thereunder curtailed, have other contracts in place generating similar or material revenue. Any such expiration, termination or reduction could materially adversely affect our revenues, financial condition and results of operations. For the six months ended June 30, 2024, we derived a majority of our product revenue from these product supply agreements.The demand for our products depends in part on our customersâ€™ research and development and the clinical and market success of their products. Our business,

financial condition, and results of operations may be harmed if our customers spend less on, or are less successful in, these activities. In addition, customer spending may be affected by, among other things, general market and economic conditions beyond our control.37Our customers are engaged in research, development, production, and marketing of pharmaceutical products and intermediates. The amount our customers spend on research, development, production, and marketing, as well as the outcomes of such research, development, and marketing activities, have a large impact on our sales and profitability, particularly the amount our customers choose to spend on our offerings. Available resources, the need to develop new products, and consolidation in the industries in which our customers operate may have an impact on such spending. Our customers and potential customers finance their research and development spending from private and public sources. A reduction in available financing for and spending by our customers, for these reasons or because of continued unstable or unpredictable economic and marketplace conditions, could have a material adverse effect on our business, financial condition, and results of operations. If our customers are not successful in attaining or retaining product sales due to market conditions, reimbursement issues, or other factors, our results of operations may be materially adversely affected.With respect to customers purchasing our products for the manufacture of APIs for which they have exclusivity due to patent protection, the termination or expiration of such patent protection and any resulting generic competition may materially and adversely affect our revenues, financial condition or results of operations.With respect to customers purchasing our products for the manufacture of API, or lead to the manufacture of API, for which exclusivity due to patent protection has or is about to expire, we can expect that the quantity of our products sold to such customers for such products may decline as generic competition for the API increases. While we anticipate that we may, in some cases, also be able to sell products to these generic competitors for the manufacture of these APIs, or lead to the manufacture of these APIs, the overall effect on our revenues, financial condition and results of operations could be materially adverse.We are dependent on a limited number of contract manufacturers for large scale production of substantially all of our enzymes. We are working to qualify new contract manufacturers to produce certain of our enzymes, however those efforts may not be successful and therefore we may experience limitations on our ability to supply our enzymes to customers.Manufacturing of our enzymes is conducted primarily in five locations: our in-house facility in Redwood City, California, and at four third-party contract manufacturing organizations, Lactosan in Kapfenberg, Austria, ACSD in Anagni, Italy, Alphazyme in Jupiter, Florida, and Sekisui in Maidstone, United Kingdom. Generally, we perform smaller scale manufacturing in-house and outsource the larger scale manufacturing to these contract manufacturers. We have limited internal capacity to manufacture enzymes. As a result, we are dependent upon the performance and capacity of third-party manufacturers for the larger scale manufacturing of the enzymes used in our pharmaceutical and life sciences businesses.Accordingly, we face risks of difficulties with, and interruptions in, performance by third party manufacturers, the occurrence of which could adversely impact the availability, launch and/or sales of our enzymes in the future. Enzyme manufacturing capacity limitations at our third-party manufacturers and manufacturing delays could negatively affect our business, reputation, results of operations and financial condition. The failure of any contract manufacturer to supply us our required volumes of enzyme on a timely basis, or to manufacture our enzymes in compliance with our specifications or applicable quality requirements or in volumes sufficient to meet demand, would adversely affect our ability to sell pharmaceutical and complex chemicals products, could harm our relationships with our customers or collaborators and could negatively affect our revenues and operating results. We may be forced to secure alternative sources of supply, which may be unavailable on commercially acceptable terms, and could cause delays in our ability to deliver products to our customers, increase our costs and decrease our profit margins.We currently have supply agreements in place with Lactosan, ACSD, Alphazyme and Sekisui. As Alphazymeâ€™s services relate primarily to non-core assets following our strategic shift of focus, that agreement will terminate as of May 2025. However, in the absence of a supply agreement, a contract manufacturer will be under no obligation to manufacture our enzymes and could elect to discontinue their manufacture at any time. If we require additional manufacturing capacity and are unable to obtain it in sufficient quantity, we may not be able to increase our product sales, or we may be required to make substantial capital investments to build that capacity or to contract with other manufacturers on terms that may be less favorable than the terms we currently have with our suppliers. If we choose to build our own additional manufacturing facility, it could take several years or longer before our facility is able to produce commercial volumes of our enzymes. Any resources we expend on acquiring or building internal manufacturing capabilities could be at the expense of other potentially more profitable opportunities. In addition, if we contract with other manufacturers, we may experience delays of several months in qualifying them, which could harm our relationships with our customers or collaborators and could negatively affect our revenues or operating results.38We are dependent on our collaborators, and our failure to successfully manage these relationships could prevent us from developing and commercializing many of our products and achieving or sustaining profitability, and could lead to disagreements with our current or former collaborators.Our ability to maintain and manage collaborations in our markets is fundamental to the success of our business. We currently have license agreements, research and development agreements, supply agreements and/or distribution agreements with various collaborators. For example, we have ongoing collaborations and agreements with GSK, Merck, Novartis, Roche and Aldevron that are important to our business and financial results. We may have limited or no control over the amount or timing of resources that any collaborator is able or willing to devote to our partnered products or collaborative efforts. Any of our collaborators may fail to perform its obligations. These collaborators may breach or terminate their agreements with us or otherwise fail to conduct their collaborative activities successfully and in a timely manner. Further, our collaborators may not develop products arising out of our collaborative arrangements or devote sufficient resources to the development, manufacture, marketing or sale of these products. Moreover, disagreements with a collaborator could develop, and any conflict with a collaborator could lead to litigation, reduce our ability to enter into future collaboration agreements and negatively impact our relationships with one or more existing collaborators. If any of these events occur, especially if they occur in our collaborations with GSK, Merck or Novartis, or if we fail to maintain our agreements with our collaborators, we may not be able to commercialize our existing and potential products or grow our business or generate sufficient revenues to support our operations, we may not receive contemplated milestone payments and royalties under the collaboration, and we may be involved in litigation. Our collaboration opportunities could be harmed and our financial condition and results of operations could be negatively affected if:â€¢we do not achieve our research and development objectives under our collaboration agreements in a timely manner or at all;â€¢we develop products and processes or enter into additional collaborations that conflict with the business objectives of our other collaborators;â€¢our collaborators and/or our contract manufacturers do not receive the required regulatory and other approvals necessary for the commercialization of the applicable product;â€¢we disagree with our collaborators as to rights to intellectual property that are developed during the collaboration, or their research programs or commercialization activities;â€¢we are unable to manage multiple simultaneous collaborations;â€¢our collaborators or licensees are unable or unwilling to implement or use the technology or products that we provide or license to them;â€¢our collaborators become competitors of ours or enter into agreements with our competitors;â€¢our collaborators become unable or less willing to expend their resources on research and development or commercialization efforts due to general market conditions, their financial condition or other circumstances beyond our control; or â€¢our collaborators experience business difficulties, which could eliminate or impair their ability to effectively perform under our agreements.Even after collaboration relationships expire or terminate, some elements of the collaboration may survive. For instance, certain rights, licenses and obligations of each party with respect to intellectual property and program materials may survive the expiration or termination of the collaboration. Disagreements or conflicts between and among the parties could develop even though the collaboration has ended. These disagreements or conflicts could result in expensive arbitration or litigation, which may not be resolved in our favor.Finally, our business could be negatively affected if any of our collaborators or suppliers undergoes a change of control or were to otherwise assign the rights or obligations under any of our agreements.If we are unable to develop and commercialize new products for the pharmaceutical, biotherapeutics, diagnostics and life science tools markets, our business and prospects will be harmed.We plan to launch new products for the pharmaceutical, biotherapeutics, diagnostics and other life science tools markets such as our ECO Synthesisâ„¢ manufacturing platform. These efforts are subject to numerous risks, including the following: 39â€¢customers in these markets may be reluctant to adopt new manufacturing processes that use our enzymes; â€¢we may be unable to successfully develop the enzymes or manufacturing processes for our products in a timely and cost-effective manner, if at all; â€¢we may face difficulties in transferring the developed technologies to our customers and the contract manufacturers that we may use for commercial scale production of intermediates and enzymes in these markets; â€¢the biotherapeutics products that use our tools may not receive regulatory approval or be commercially viable;â€¢the contract manufacturers that we may use may be unable to scale their manufacturing operations to meet the demand for these products and we may be unable to secure additional manufacturing capacity; â€¢customers may not be willing to purchase these products for these markets from us on favorable terms, if at all; â€¢we may face product liability litigation, unexpected safety or efficacy concerns and product recalls or withdrawals; â€¢our customersâ€™ products may experience adverse events or face competition from new products, which would reduce demand for our products; â€¢we may face pressure from existing or new competitive products; and â€¢we may face pricing pressures from existing or new competitors, some of which may benefit from government subsidies or other incentives.We have invested significant resources to enable fully enzymatic nucleic acid synthesis, which is based on novel ideas and technologies that are largely unproven.Our ECO Synthesisâ„¢ manufacturing platform is currently in development to enable the commercial-scale manufacture of RNAi and other RNA-based therapeutics through an enzymatic route. While we believe fully enzymatic nucleic acid synthesis will offer certain improvements over phosphoramidite chemistry, including with respect to required infrastructure investments, batch size limitations and waste disposal challenges, the enzymatic route is novel and has not yet been commercialized. As such, we may be faced with unforeseen results, delays and setbacks, in addition to the other foreseeable risks and uncertainties associated with the ongoing development of the ECO Synthesisâ„¢ manufacturing platform and other products. Other challenges with a new technology such as our ECO Synthesisâ„¢ manufacturing platform include having an unknown and unproven development and regulatory path, uncertainly around the value that we can realize from the technology, uncertainty around the timeline for adoption of the technology by customers, and uncertainly around our ability to manufacture at GMP scale and partner with customers on manufacturing and utilizing the technology. We may also be unable to achieve the expected benefits of the ECO Synthesisâ„¢ manufacturing platform in a timely manner or at all.There can be no assurance that these events we may experience in the future related to enzymatic synthesis will not cause significant delays or unanticipated costs, or that such development problems can be solved. Any delay or difficulties in developing and commercializing our ECO Synthesisâ„¢ manufacturing platform or any of our other current or future products could adversely affect our business and operations.Competitors and potential competitors who have greater resources and experience than we do may develop products and technologies that make ours obsolete or may use their greater resources to gain market share at our expense.The biocatalysis and performance enzyme industries and each of our target markets are characterized by rapid technological change. Our future success will depend on our ability to maintain a competitive position with respect to technological advances. In addition, as we enter new markets, we will face new competition and will need to adapt to competitive factors that may be different from those we face today. We are aware that other companies, including DSM, BASF, Bayer and Novozymes have alternative methods for obtaining and generating genetic diversity or use mutagenesis techniques to produce genetic diversity. Academic institutions such as the California Institute of Technology, the Max Planck Institute and the Austrian Centre of Industrial Biotechnology are also working in this field. Technological development by others may result in our technology, products and services, as well as products developed by our customers using our biocatalysts, becoming obsolete. 40Our primary competitors in the performance enzymes for the pharmaceutical products markets include (i) companies marketing either conventional, non-enzymatic processes or biocatalytic enzymes; (ii) manufacturers of pharmaceutical intermediates and APIs; and (iii) existing in-house technologies (both biocatalysts and conventional catalysts) within our client and potential client companies. The principal methods of competition and competitive differentiation in this market are price, product quality and performance, including manufacturing yield, safety and environmental benefits, and speed of delivery of product. Pharmaceutical manufacturers that use biocatalytic processes can face increased competition from manufacturers that use more conventional processes and/or manufacturers that are based in regions (such as India and China) with lower regulatory, safety and environmental costs.The market for the manufacture and supply of APIs and intermediates is large with many established companies. These companies include many of our large innovator and generic pharmaceutical customers, such as Merck, GSK, Novartis, Pfizer, Bristol-Myers, Kyorin, Urovant, and Teva which have significant internal research and development efforts directed at developing processes to manufacture APIs and intermediates. The processes used by these companies include classical conventional organic chemistry reactions, chemo catalytic reactions, biocatalytic reactions or combinations thereof. Our biocatalytic based manufacturing processes must compete with these internally developed routes. Additionally, we also face competition from companies developing and marketing conventional catalysts such as Solvias Inc., BASF and Takasago International Corporation.The market for supplying enzymes for use in pharmaceutical manufacturing is quite fragmented. There is competition from large industrial enzyme companies, such as Novozymes and DuPont, as well as subsidiaries of larger contract research/contract manufacturing organizations, such as DSM, Cambrex Corporation, Lonza, WuXi STA and Almac Group Ltd. Some fermentation pathway design companies, like Ginkgo Bioworks (who recently acquired Zymergen), whose traditional focus has been to design microorganisms that express small molecule chemicals, could extend into designing organisms that express enzymes. There is also competition in the enzyme customization and optimization area from several smaller companies, such as BRAIN AG, Arzeda, c-LEcta GmbH and Evocatal GmbH.We face competitive challenges related to our ECO Synthesisâ„¢ manufacturing platform. Phosphoramidite chemistry is the current and long-established industry standard for the manufacture of RNA therapeutics. Primary competitors in this space include CDMOs, such as Agilent Technologies, which has made significant capital investment to expand their RNA manufacturing capabilities using phosphoramidite chemistry. In addition, CDMOs and large pharmaceutical companies are seeking to make incremental improvements to phosphoramidite chemistry, including the development of ligation-based approaches, liquid-phase synthesis, and solvent recycling. There are also multiple early-stage competitors who are pursuing fully enzymatic approaches to the manufacture of RNA, including EnPlusOne, a private startup company, and a UK-based consortium led by CPI and consisting of multiple academic and research organizations, including The University of Manchester and large pharmaceutical companies, including AstraZeneca plc and Novartis.Our ability to compete successfully in any of these markets will depend on our ability to develop proprietary products that reach the market in a timely manner and are technologically superior to and/or are less expensive than other products on the market. Many of our competitors have substantially greater production, financial, research and development, personnel and marketing resources than we do. They also started developing products earlier than we did, which may allow them to establish blocking intellectual property positions or bring products to market before we can. In addition, certain of our competitors may also benefit from local government subsidies and other incentives that are not available to us. As a result, our competitors may be able to develop competing and/or superior technologies and processes and compete more aggressively and sustain that competition over a longer period of time than we could. Our technologies and products may be rendered obsolete or uneconomical by technological advances or entirely different approaches developed by one or more of our competitors. We cannot be certain that any products we develop in the future will compare favorably to products offered by our competitors or that our existing or future products will compare favorably to any new products that are developed by our competitors. As more companies develop new intellectual property in our markets, the possibility of a competitor acquiring patent or other rights that may limit our products or potential products increases, and could additionally lead to litigation. Our limited resources relative to many of our competitors may cause us to fail to anticipate or respond adequately to new developments and other competitive pressures. This failure could reduce our competitiveness and market share, adversely affect our results of operations and financial position, and prevent us from obtaining or maintaining profitability. 41Revenues in future years from our sales of CDX-616 to Pfizer are subject to a number of factors which are outside of our control and may not materialize.Starting the first and second quarters of 2021, we began to receive purchase orders from Pfizer for large quantities of our proprietary enzyme product, CDX-616, for use by Pfizer in the manufacture of a critical intermediate for its proprietary active pharmaceutical ingredient, nirmatrelvir. Pfizer markets, sells and distributes nirmatrelvir, in combination with the active pharmaceutical ingredient ritonavir, as its PAXLOVIDâ„¢ (nirmatrelvir tablets; ritonavir tablets) product, which received FDA approval in May 2023 for the treatment of mild-to-moderate COVID-19 in adults who are at high risk for progression to severe COVID-19, including hospitalization or death.Potential revenues in future years from our sales of CDX-616 to Pfizer and other potential customers (including sublicensees of Pfizer technology from The Medicines Patent Pool (the â€œMPPâ€)) are subject to a number of factors which are outside of our control, including, without limitation, the following, all of which could reduce or eliminate our sales of CDX-616, and therefore materially and adversely affect our business, results of operations and financial condition:â€¢Pfizer has no future binding commitment to purchase any particular quantity or quantities of CDX-616 from us, and we are dependent upon Pfizer continuing to place orders with us (whether on a spot basis or under a long-term agreement, when and if executed) for their requirements, if any, for CDX-616;â€¢to our knowledge, sublicensees of Pfizer technology from the MPP have no obligation to purchase CDX-616 from us under their sublicenses with the MPP;â€¢future vaccine development and usage and the development and usage of other new therapies for the treatment or elimination of COVID-19 may eliminate or reduce demand for

PAXLOVIDâ„¢;â€¢new variants of COVID-19 may emerge which PAXLOVIDâ„¢ is not effective in treating;â€¢Pfizer could reformulate or make changes in the manufacturing process for nirmatrelvir which would eliminate or reduce demand for the use of CDX-616 in its manufacture;â€¢sublicensees of Pfizer technology for the manufacture, sale and distribution of PAXLOVIDâ„¢ from the MPP may not utilize CDX-616 in the manufacture of nirmatrelvir;â€¢national and regional governmental authorities (including those of the United States government) may mandate that raw materials and intermediates used in the manufacture of PAXLOVIDâ„¢ to be marketed, sold and distributed within the borders of that country be domestically produced, which could eliminate or reduce demand for the use of CDX-616 in such country; andâ€¢we may be unable (because of lack of available manufacturing capacity at our contract manufacturers, supply chain disruptions or an inability to obtain applicable regulatory approvals) to manufacture the quantities of CDX-616 that Pfizer may desire to purchase from us.We have investments in non-marketable securities, which may subject us to significant impairment charges.We have investments in illiquid or non-marketable equity securities acquired in private transactions. As of JuneÂ 30, 2024, 7.3% of our consolidated assets consisted of investment securities, which are illiquid investments. Investments in non-marketable, securities are inherently risky and difficult to value. We account for our non-marketable equity securities under the measurement alternative. Under the measurement alternative, the carrying value of our non-marketable equity investments is adjusted to fair value for observable transactions for identical or similar investments of the same issuer or impairment. We evaluate our investment in non-marketable securities when circumstances indicate that we may not be able to recover the carrying value. We may impair these securities and establish an allowance for a credit loss when we determine that there has been an â€œother-than-temporaryâ€ decline in estimated fair value of the equity security compared to its carrying value. The impairment analysis requires significant judgment to identify events or circumstances that would likely have a material adverse effect on the fair value of the investment. Because over 5% of our total assets consisted of non-marketable investment securities, any future impairment charges from the write down in value of these securities could have a material adverse effect on our financial condition or results of operations. 42Ethical, legal and social concerns about genetically engineered products and processes could limit or prevent the use of our technology, products and processes and limit our revenues.Some of our technology, products and services, such as our ECO Synthesisâ„¢ manufacturing platform, are genetically engineered or involve the use of genetically engineered products or genetic engineering technologies. If we and/or our collaborators are not able to overcome the ethical, legal, and social concerns relating to genetic engineering, our technology, products and services may not be accepted. Any of the risks discussed below could result in increased expenses, delays, or other impediments to our programs or the public acceptance and commercialization of products and processes dependent on our technologies or inventions. Our ability to develop and commercialize one or more of our technologies, products, or processes could be limited by the following factors: â€¢public attitudes about the safety and environmental hazards of, and ethical concerns over, genetic research and genetically engineered products and processes, which could influence public acceptance of our technologies, products and processes; â€¢public attitudes regarding, and potential changes to laws governing ownership of, genetic material, which could harm our intellectual property rights with respect to our genetic material and/or discourage collaborators from supporting, developing, or commercializing our technology, products and services; and â€¢governmental reaction to negative publicity concerning genetically modified organisms, which could result in greater government regulation of genetic research and derivative products. The subject of genetically modified organisms has received negative publicity, which has aroused public debate. This adverse publicity could lead to greater regulation and trade restrictions on imports of genetically altered products. The biocatalysts that we develop have significantly enhanced characteristics compared to those found in naturally occurring enzymes or microbes. While we produce our biocatalysts only for use in a controlled industrial environment, the release of such biocatalysts into uncontrolled environments could have unintended consequences. Any adverse effect resulting from such a release could have a material adverse effect on our business and financial condition, damage our reputation, and/or expose us to liability for any resulting harm. We have recently enhanced our strategic focus to concentrate on certain programs and business lines. As a result of this refined focus, we may fail to capitalize on other opportunities that may be more profitable or for which there is a greater likelihood of success.Because we have limited financial and managerial resources, we have recently focused our efforts on developing certain programs and business lines. As a result, we may forego or delay pursuit of business opportunities that later prove to have greater commercial potential. Further our resource allocation decisions may cause us to fail to capitalize on viable commercial products or profitable market opportunities. In addition, our spending on current and future research and development programs, such as ECO Synthesisâ„¢ manufacturing platform that is in development, may not yield any commercially viable products. If we do not accurately evaluate the commercial potential or target market for a particular program or business line, our business and results of operations could be harmed.Given our recent change in strategic direction, we may receive limited revenue or no future value from certain of our existing license agreements.While we have historically invested significant time and financial resources in the development of biotherapeutics assets, we announced we are terminating investment in our biotherapeutics business and in other programs. As a result, we are renegotiating some of these, along with other license agreements for product candidates in our biotherapeutics, food and feed, and non-core life science assets. For example, we entered into the Acquisition Agreement with NestlÃ© Health Science under which they acquired rights to our co-developed lipase enzyme CDX-7108 and we received an upfront payment and the right to downstream milestones and royalties, terminating our prior SCA and development agreement with NestlÃ© Health Science. While we are working to amend or terminate some of our agreements and enter into new agreements in such a way that we may be able to receive future revenue or other benefits, we may be unsuccessful in doing so. As a result, it remains uncertain as to whether we will receive any value or benefit from these license agreements going forward. Further, renegotiating these agreements may be costly and could divert management attention, which could have an adverse impact on our business and results of operations.43Our efforts to deploy our technology in the life science tools markets may fail.We have used our CodeEvolverÂ® directed evolution technology platform to develop new products for customers using NGS and PCR/qPCR for in vitro molecular diagnostic applications. While we have entered into license agreements for products in this market, we do not know if our partners or licensees can successfully compete in this market. This new market is well established and consists of numerous large, well-funded entrenched market participants who have long and established track records and customer relationships. We use hazardous materials in our business and we must comply with environmental laws and regulations. Any claims relating to improper handling, storage or disposal of these materials or noncompliance of applicable laws and regulations could be time consuming and costly and could adversely affect our business and results of operations.Our research and development, manufacturing, and commercial processes involve the use of hazardous materials, including chemical, radioactive and biological materials, such as acetonitrile, which is used in some of our purification processes. Our operations also produce hazardous waste. We cannot eliminate entirely the risk of accidental contamination or discharge and any resultant injury from these materials. Federal, state, local and foreign laws and regulations govern the use, manufacture, storage, handling and disposal of, and human exposure to, these materials. We may face liability for any injury or contamination that results from our use or the use by third parties of these materials, and our liability may exceed our total assets. Although we believe that our activities comply in all material respects with environmental laws, there can be no assurance that violations of environmental, health and safety laws will not occur in the future as a result of human error, accident, equipment failure or other causes. Compliance with applicable environmental laws and regulations may be expensive, and the failure to comply with past, present or future laws could result in the imposition of fines, third party property damage, product liability and personal injury claims, investigation and remediation costs, the suspension of production or a cessation of operations, and our liability may exceed our total assets. Liability under environmental laws can be joint and several and without regard to comparative fault. Environmental laws could become more stringent over time imposing greater compliance costs and increasing risks and penalties associated with violations, which could impair our research, development or production efforts and harm our business. In addition, we may be required to indemnify some of our customers or suppliers for losses related to our failure to comply with environmental laws, which could expose us to significant liabilities. Our ability to use our net operating loss carryforwards to offset future taxable income may be subject to certain limitations.In general, under Section 382 of the Internal Revenue Code of 1986, as amended (the â€œCodeâ€), a corporation that undergoes an â€œownership changeâ€ is subject to limitations on its ability to utilize its pre-change net operating loss carryforwards (â€œNOLsâ€), to offset future taxable income. If the Internal Revenue Service challenges our analysis that our existing NOLs are not subject to limitations arising from previous ownership changes, our ability to utilize NOLs could be limited by Section 382 of the Code. Future changes in our stock ownership, some of which are outside of our control, could result in an ownership change under Section 382 of the Code. Furthermore, our ability to utilize NOLs of companies that we may acquire in the future may be subject to limitations. For these reasons, we may not be able to utilize a material portion of the NOLs reflected in our financial statements, even if we attain profitability.As a public reporting company, we are subject to rules and regulations established from time to time by the SEC and Nasdaq regarding our internal controls over financial reporting. We may not complete needed improvements to our internal controls over financial reporting in a timely manner, or these internal controls may not be determined to be effective, which may adversely affect investor confidence in our company and, as a result, the value of our common stock and your investment.We are subject to the rules and regulations established from time to time by the SEC and Nasdaq. These rules regulations require, among other things, that we establish and periodically evaluate procedures with respect to our internal controls over financial reporting. As part of these evaluations, material weaknesses in our internal controls over financial reporting may be identified. A material weakness is a deficiency, or a combination of deficiencies, in internal controls over financial reporting such that there is a reasonable possibility that a material misstatement of a companyâ€™s annual or interim consolidated financial statements will not be prevented or detected on a timely basis. While we were able to remediate previously identified material weaknesses in our internal controls over financial reporting, there can be no guarantee we will not identify similar or other material weaknesses in the future and if such material weaknesses are identified, there can be no guarantee we would be able to remediate such material weaknesses. Any material weaknesses in our internal controls may adversely affect our ability to record, process, summarize and accurately report timely financial information and, as a result, our consolidated financial statements may contain material misstatements or omissions.44Reporting obligations as a public company place a considerable strain on our financial and management systems, processes and controls, as well as on our personnel. In addition, as a public company we are required to document and test our internal controls over financial reporting pursuant to Section 404 of the Sarbanes-Oxley Act so that our management can certify as to the effectiveness of our internal controls over financial reporting. Likewise, our independent registered public accounting firm is required to provide an attestation report on the effectiveness of our internal controls over financial reporting in our Annual Reports on Form 10-K. If our management is unable to certify the effectiveness of our internal controls or if our independent registered public accounting firm cannot deliver a report attesting to the effectiveness of our internal controls over financial reporting, or if we identify or fail to remediate material weaknesses in our internal controls, we could be subject to regulatory scrutiny and a loss of public confidence, which could seriously harm our reputation and the market price of our common stock. In addition, if we do not maintain adequate financial and management personnel, processes and controls, we may not be able to manage our business effectively or accurately report our financial performance on a timely basis, which could cause a decline in our common stock price and may seriously harm our business.We may need additional capital in the future in order to expand our business.Our future capital requirements may be substantial, particularly as we continue to develop our business. Although we believe that, based on our current level of operations, our existing cash, cash equivalents and equity securities will provide adequate funds for ongoing operations, planned capital expenditures and working capital requirements for at least the next 12 months, we may need additional capital if our current plans and assumptions change. Our need for additional capital will depend on many factors, including the financial success of our performance enzyme business, our spending to develop and commercialize new and existing enzyme products and the amount of collaboration funding we may receive to help cover the cost of such expenditures, the effect of any acquisitions of other businesses, technologies or facilities that we may make or develop in the future, our spending on new market opportunities, including the ongoing commercialization of our ECO Synthesisâ„¢ manufacturing platform, scaling the ECO Synthesisâ„¢ manufacturing platform to GMP capability, and the filing, prosecution, enforcement and defense of patent claims. If our capital resources are insufficient to meet our capital requirements, and we are unable to enter into or maintain collaborations with partners that are able or willing to fund our development efforts or commercialize any enzyme products that we develop or enable, we will have to raise additional funds to continue the development of our technology and products and complete the commercialization of products, if any, resulting from our technologies. In addition, we may choose to raise additional capital due to market conditions or strategic considerations, such as funding the ongoing commercialization of our ECO Synthesisâ„¢ manufacturing platform and a GMP manufacturing facility, even if we believe we have sufficient funds for our current or future operating plans. We may seek to obtain such additional capital through equity offerings, including pursuant to the EDA, the Cantor Sales Agreement, debt financings, credit facilities and/or strategic collaborations. If future financings involve the issuance of equity securities, our existing stockholders would suffer dilution. In addition, under our Loan Agreement, we are subject to restrictive covenants that limit our ability to conduct our business and could be subject to additional covenants to the extent we seek other debt financing in the future. Strategic collaborations may also place restrictions on our business. We may not be able to raise sufficient additional funds on terms that are favorable to us, if at all. If we fail to raise sufficient funds and fail to generate sufficient revenues to achieve planned gross margins and to control operating costs, our ability to fund our operations, take advantage of strategic opportunities, develop products or technologies, or otherwise respond to competitive pressures could be significantly limited. If this happens, we may be forced to delay or terminate research or development programs or the commercialization of products resulting from our technologies, curtail or cease operations or obtain funds through collaborative and licensing arrangements that may require us to relinquish commercial rights, or grant licenses on terms that are not favorable to us. If adequate funds are not available, we will not be able to successfully execute our business plan or continue our business.Covenants and other provisions in our Loan Agreement with Innovatus restrict our business and operations in many ways, and if we do not effectively manage our covenants, our financial conditions and results of operations could be adversely affected. In addition, our operations may not provide sufficient cash to meet the repayment obligations of our debt incurred under the Loan Agreement.Pursuant to the Loan Agreement, Innovatus has been granted a security interest in substantially all of our assets. If an event of default occurs under the Loan Agreement, Innovatus may foreclose on its security interest and liquidate some or all of these assets, which would harm our business, financial condition and results of operations.In the event of a default in connection with our bankruptcy, insolvency, liquidation, or reorganization, Innovatus would have a prior right to substantially all of our assets to the exclusion of our general unsecured creditors. Only after satisfying the claims of Innovatus and any unsecured creditors would any amount be available for our equity holders.45The pledge of these assets and other restrictions imposed in the Loan Agreement may limit our flexibility in raising capital for other purposes. Because substantially all of our assets are pledged to secure the Loan Agreement obligations, our ability to incur additional indebtedness or to sell or dispose of assets to raise capital may be impaired, which could have an adverse effect on our financial flexibility.In addition, if we are unable to comply with certain financial and operating restrictions in the Loan Agreement, we may be limited in our business activities and access to credit or may default under the Loan Agreement. Provisions in the Loan Agreement impose restrictions or require prior approval on our ability, and the ability of certain of our subsidiaries to, among other things:â€¢sell, lease or transfer certain parts of our business or property, including equity interests of our subsidiaries;â€¢engage in new lines of business;â€¢acquire new companies and merge or consolidate;â€¢incur additional debt or guarantee the indebtedness of others or our subsidiaries;â€¢create liens or encumbrances;â€¢pay cash dividends and make distributions or redeem or repurchase our capital stock;â€¢make certain investments; â€¢enter into transactions with affiliates; andâ€¢terminate or, in certain cases, amend our material agreements.The Loan Agreement also contains other customary covenants. We may not be able to comply with these covenants in the future. Our failure to comply with these covenants may result in the declaration of an event of default, which, if not cured or waived, may result in the acceleration of the maturity of indebtedness outstanding under the Loan Agreement and would require us to pay all amounts outstanding. If the maturity of our indebtedness is accelerated, we may not have sufficient funds then available for repayment or we may not have the ability to borrow or obtain sufficient funds to replace the accelerated indebtedness on terms acceptable to us or at all. Our failure to repay our obligations under the Loan Agreement would result in Innovatus foreclosing on all or a portion of our assets, which could force us to curtail or cease our operations.If we engage in any acquisitions, we will incur a variety of costs and may potentially face numerous risks that could adversely affect our business and operations.We have made acquisitions in the past, and if appropriate opportunities become available, we expect to acquire additional businesses, assets, technologies, or products to enhance our business in the future. For example, in October 2010, we acquired substantially all of the patents and other intellectual property rights associated with Maxygen Inc.â€™s directed evolution technology. In connection with any future acquisitions, we could: â€¢issue additional equity securities, which would dilute our current stockholders; â€¢incur substantial debt to fund the acquisitions; â€¢use our cash to fund the acquisitions; or â€¢assume significant liabilities including litigation risk. 46Acquisitions involve numerous risks, including problems integrating the purchased operations, technologies or products, unanticipated costs and other liabilities, diversion of managementâ€™s attention from our core businesses, adverse

effects on existing business relationships with current and/or prospective collaborators, customers and/or suppliers, risks associated with entering markets in which we have no or limited prior experience and potential loss of key employees. We do not have extensive experience in managing the integration process and we may not be able to successfully integrate any businesses, assets, products, technologies or personnel that we might acquire in the future without a significant expenditure of operating, financial and management resources, if at all. The integration process could divert managementâ€™s time from focusing on operating our business, result in a decline in employee morale and cause retention issues to arise from changes in compensation, reporting relationships, future prospects or the direction of the business. Acquisitions may also require us to record goodwill and non-amortizable intangible assets that will be subject to impairment testing on a regular basis and potential periodic impairment charges, incur amortization expenses related to certain intangible assets, and incur large and immediate write offs and restructuring and other related expenses, all of which could harm our operating results and financial condition. In addition, we may acquire companies that have insufficient internal financial controls, which could impair our ability to integrate the acquired company and adversely impact our financial reporting. If we fail in our integration efforts with respect to any of our acquisitions and are unable to efficiently operate as a combined organization, our business and financial condition may be adversely affected. COVID-19 has adversely affected, and any resurgence of COVID-19 pandemic or another global health epidemic may in the future, directly or indirectly, adversely affect our business, results of operations and financial condition.COVID-19 has had a significant impact globally, prompting governments and businesses to take unprecedented measures in response. In the United States, COVID-19 has and may continue in the future to, directly or indirectly, adversely affect our business, results of operations and financial condition.In the future, our business could be materially adversely affected, directly or indirectly, by the widespread outbreak of contagious disease, such as COVID-19 or any resurgence thereof. If national, state and local governments in affected regions implement safety precautions, similar to those implemented in response to COVID-19, including quarantines, border closures, increased border controls, travel restrictions, governmental orders and shutdowns, business closures, cancellations of public gatherings and other measures, such precautions could, and for COVID-19 did, disrupt normal business operations both in and outside of affected areas and could have significant negative impacts on businesses and financial markets worldwide.The impact of COVID-19 has had, and any resurgence of the COVID-19 pandemic or another pandemic or public health crisis, could in the future have, significant repercussions across regional, national and global economies and financial markets, and could trigger a period of regional, national and global economic slowdown or regional, national or global recessions. The outbreak of COVID-19 in many countries adversely impacted regional, national and global economic activity and has continued to contribute to significant volatility and negative pressure in financial markets. As a result, we may experience difficulty accessing debt and equity capital on attractive terms, or at all, due to the severe disruption and instability in the global financial markets. In addition, our customers may terminate or amend their agreements for the purchase of our technology, products and services due to bankruptcy, lack of liquidity, lack of funding, operational failures or other reasons.47Risks Related to Government RegulationEven if our customers, future customers or collaborators obtain regulatory approval for any products utilizing our enzymes, such products will remain subject to ongoing regulatory requirements, which may result in significant additional expense.Any products that receives FDA approval will remain subject to ongoing regulatory requirements for manufacturing, labeling, packaging, distribution, storage, advertising, promotion, sampling, record-keeping and submission of safety and other post-market information, among other things. Any regulatory approvals received for such products may also be subject to limitations on the approved indicated uses for which they may be marketed or to the conditions of approval, or contain requirements for potentially costly post-marketing testing and surveillance studies. For example, the holder of an approved NDA or BLA in the United States is obligated to monitor and report adverse events and any failure of a product to meet the specifications in the NDA or BLA. In the United States, the holder of an approved NDA or BLA must also submit new or supplemental applications and obtain FDA approval for certain changes to the approved product, product labeling or manufacturing process. Similar provisions apply in the European Union (the â€œEUâ€). Advertising and promotional materials must comply with FDA rules and are subject to FDA review, in addition to other potentially applicable federal and state laws. Similarly, in the EU any promotion of medicinal products is highly regulated and, depending on the specific jurisdiction involved, may require prior vetting by the competent national regulatory authority. In addition, product manufacturers and their facilities are subject to payment of user fees and continual review and periodic inspections by the FDA and other regulatory authorities for compliance with cGMP requirements and adherence to commitments made in the NDA, BLA or foreign marketing application. If our customers, future customers or our collaborators or a regulatory agency discovers previously unknown problems with a product such as adverse events of unanticipated severity or frequency or problems with the facility where the product is manufactured or disagrees with the promotion, marketing or labeling of that product, a regulatory agency may impose restrictions relative to that product, the manufacturing facility or our customers or collaborators, including requiring recall or withdrawal of the product from the market or suspension of manufacturing.In addition, if our customers or collaborators fail to comply with applicable regulatory requirements, the FDA and other regulatory authorities may:â€¢issue an untitled letter or a warning letter asserting a violation of the law;â€¢seek an injunction, impose civil or criminal penalties, and impose monetary fines, restitution or disgorgement of profits or revenues;â€¢suspend or withdraw regulatory approval;â€¢issue safety alerts, Dear Healthcare Provider letters, press releases or other communications containing warnings or other safety information about the product;â€¢mandate modification of promotional materials and labeling and issuance of corrective information;â€¢issue consent decrees or corporate integrity agreements, or debar or exclude from federal healthcare programs;â€¢suspend or terminate any ongoing clinical trials or implement requirements to conduct post-marketing studies or clinical trials;â€¢refuse to approve a pending NDA, BLA or comparable foreign marketing application (or any supplements thereto);â€¢restrict the labeling, marketing, distribution, use or manufacturing of products;â€¢seize or detain products or otherwise require the withdrawal or recall of products from the market;â€¢refuse to approve pending applications or supplements to approved applications;â€¢refuse to permit the import or export of products; orâ€¢refuse government contracts.Any government investigation of alleged violations of law could require us to expend significant time and resources in response and could generate negative publicity. The occurrence of any event or penalty described above may also inhibit our customers or collaboratorsâ€™ ability to commercialize products and our ability to generate revenues.48In addition, the FDAâ€™s policies, and policies of foreign regulatory agencies, may change, including due to judicial challenges, and additional regulations may be enacted that could prevent, limit or delay regulatory approval of product candidates. We cannot predict the likelihood, nature or extent of government regulation that may arise from future legislation or administrative or executive action, either in the United States or abroad. If we are slow or unable to adapt to changes in existing requirements or the adoption of new requirements or policies, or if we are not able to maintain regulatory compliance, we may be subject to enforcement action and we may not achieve or sustain profitability.If we or our customers fail to comply with certain healthcare laws, including fraud and abuse laws, we could face substantial penalties and our business, results of operations, financial condition and prospects could be adversely affected. The healthcare industry is highly regulated. We, and our customers, are subject to various local, state, federal, national, and international laws and regulations, which include laws and regulations promulgated by the FDA, HHS, state boards of pharmacy, state health departments, and similar regulatory bodies in other countries. Additionally, our business operations and future arrangements with investigators, healthcare professionals, and consultants, among others, may expose us and our customers to broadly applicable fraud and abuse and other healthcare laws and regulations, including, without limitation, the federal Anti-Kickback Statute, the federal civil False Claims Act, the federal Civil Monetary Penalties Law, and analogous state laws. These laws may constrain the business or financial arrangements and relationships through which we will conduct our operations. Because of the breadth of these laws and narrowness of available statutory and regulatory exceptions, it is possible that some of our business activities could be regulated by or subject to challenge under one or more of such laws. We cannot ensure that our compliance controls, policies, and procedures will in every instance protect us from acts of our employees, agents, contractors, or collaborators that turn out to violate any of the laws described above. If we or our operations are found to be in violation of any of the laws described above or any other governmental regulations that apply to us, we may be subject to penalties, including civil and criminal penalties, damages, fines, imprisonment and the curtailment or restructuring of our operations, any of which could materially adversely affect our ability to operate our business and our financial results. Ongoing healthcare legislative and regulatory reform measures may have a material adverse effect on our business and results of operations.In the United States, there have been, and we expect there will continue to be, a number of legislative initiatives to contain healthcare costs. Some of these initiatives, such as ongoing healthcare reform, including with respect to reforming drug pricing, adverse changes in governmental or private funding of healthcare products and services, legislation or regulations governing patient access to care, and the delivery, coverage, pricing, and reimbursement of pharmaceuticals and healthcare services may cause our customers to change the amount of our offerings that they purchase from us or the price they are willing to pay us for these offerings. If cost-containment efforts or other healthcare reform measures limit our customersâ€™ profitability, they may decrease research and development spending, which could decrease the demand for our products and services and materially adversely affect our growth prospects. Any of these factors could harm our customersâ€™ businesses, which, in turn, could materially adversely affect our business, financial condition, results of operations, cash flows, and prospects.We cannot predict the likelihood, nature, or extent of other health reform initiatives that may arise from future legislative, administrative, or other action. Any substantial revision of applicable healthcare legislation could have a material adverse effect on the demand for our customersâ€™ products, which in turn could have a negative impact on our results of operations, financial condition, or business. Changes in the healthcare industryâ€™s pricing, selling, inventory, distribution, or supply policies or practices, or in public or government sentiment for the industry as a whole, could also significantly reduce our revenue and results of operations.Compliance with European Union chemical regulations could be costly and adversely affect our business and results of operations.Some of our products are subject to the EU regulatory regime known as The Registration, Evaluation and Authorization of Chemicals (â€œREACHâ€). REACH mandates that certain chemicals manufactured in, or imported into, the EU be registered and evaluated for their potential effects on human health and the environment. Under REACH, we and our contract manufacturers located in the EU are required to register certain of our products based on the quantity of such product imported into or manufactured in the EU and on the productâ€™s intended end-use. The registration, evaluation and authorization process under REACH can be costly and time consuming. Problems or delays in the registration, evaluation or authorization process under REACH could delay or prevent the manufacture of some of our products in, or the importation of some of our products into, the EU, which could adversely affect our business and results of operations. In addition, if we or our contract manufacturers fail to comply with REACH, we may be subject to penalties or other enforcement actions, which could have a material adverse effect on our business and results of operations.49The biopharmaceutical industry is subject to extensive regulatory obligations and policies that are subject to change, including due to judicial challenges.On June 28, 2024, the U.S. Supreme Court issued an opinion holding that courts reviewing agency action pursuant to the Administrative Procedure Act â€œmust exercise their independent judgmentâ€ and â€œmay not defer to an agency interpretation of the law simply because a statute is ambiguous.â€ The decision will have a significant impact on how lower courts evaluate challenges to agency interpretations of law, including those by the FDA and other agencies with significant oversight of the biopharmaceutical industry. The new framework is likely to increase both the frequency of such challenges and their odds of success by eliminating one way in which the government previously prevailed in such cases. As a result, significant regulatory policies will be subject to increased litigation judicial scrutiny. Any resulting changes in regulation may result in unexpected delays, increased costs, or other negative impacts on our business that are difficult to predict.Risks Related to Intellectual Property and Information TechnologyOur efforts to prosecute, maintain, protect and/or defend our intellectual property rights may not be successful.We will continue to file and prosecute patent applications and maintain trade secrets in an ongoing effort to protect our intellectual property rights. It is possible that our current patents, or patents which we may later acquire, may be successfully challenged or invalidated, in whole or in part. It is also possible that we may not obtain issued patents from our pending patent applications. We sometimes permit certain patents or patent applications to lapse or go abandoned under appropriate circumstances. Due to uncertainties inherent in prosecuting patent applications, sometimes patent applications are rejected, and we subsequently abandon them. It is also possible that we may develop proprietary technology, products or services in the future that are not patentable or that the patents of others will limit or altogether preclude our ability to conduct business. In addition, any patent issued to us or to our licensor may provide us with little or no competitive advantage, in which case we may abandon such patent, license it to another entity or terminate the license agreement.Our means of protecting our proprietary rights may not be adequate and our competitors may independently develop technologies, products or services that are identical or similar to ours or that compete with ours. Patent, trademark, copyright and trade secret laws afford only limited protection for our technology, products and services. The laws of many countries do not protect our proprietary rights to as great of an extent as do the laws of the United States. Despite our efforts to protect our proprietary rights, unauthorized parties have in the past attempted, and may in the future attempt, to operate under the aspects of our intellectual property rights, or proprietary technology, products or services or products, or to obtain and use information that we regard as proprietary. Third parties may also design around our proprietary rights, which may render our protected technology, services and products less valuable, if the design around is favorably received in the marketplace. In addition, if any of our technology, products and services are covered by third-party patents or other intellectual property rights, we could be subject to various legal actions. For example, we are aware of certain third-party intellectual property that does or may overlap with aspects of the Companyâ€™s technology. We cannot assure that our technology products and/or services do not infringe, violate or misappropriate any patents or other intellectual property rights owned or controlled by others or that they will not in the future. Litigation may be necessary to enforce our intellectual property rights, to protect our trade secrets, to determine the validity and scope of the proprietary rights of others, or to defend against claims of infringement, invalidity, misappropriation, or other claims. Any such litigation could result in substantial costs and diversion of our resources. Moreover, any settlement of or adverse judgment resulting from litigation relating to intellectual property rights could require us to obtain a license to continue to make, use, import, sell or offer for sale the technology, products or services that is the subject of the claim, or otherwise restrict or prohibit our use of the technology, products or services.50Our ability to compete may decline if we do not adequately prosecute, maintain, protect and/or defend our proprietary technology, products or services or our intellectual property rights. Our success depends in part on our ability to obtain patents and maintain adequate protection of our intellectual property rights directed to our technology, products and services in the United States and other countries. We have adopted a strategy of seeking patent protection in the United States and in foreign countries with respect to certain of the technology used in or relating to our products, services, and processes. As such, as of JuneÂ 30, 2024, we owned or controlled approximately 1,990 active issued patents and pending patent applications in the United States and in various foreign jurisdictions. As of JuneÂ 30, 2024, our patents and patent applications, if issued, have terms that expire between 2024 and approximately 2045. We also have license rights to a number of issued patents and pending patent applications in the United States and in various foreign jurisdictions. Our owned and licensed patents and patent applications include those directed to our enabling technology and to the methods and products that support our business in the pharmaceutical manufacturing, life sciences, oligonucleotide synthesis, and other markets. We intend to continue to apply for patents relating to our technology, methods, services and products as we deem appropriate. Issuance of claims in patent applications and enforceability of such claims once issued involve complex legal and factual questions and, therefore, we cannot predict with any certainty whether any of our issued patents will survive invalidity claims asserted by third parties. Issued patents and patents issuing from pending applications may be challenged, invalidated, circumvented, rendered unenforceable or substantially narrowed in scope. In addition, the inventorship and ownership of the patents and patent applications may be challenged by others. Moreover, the United States Leahy-Smith America Invents Act (â€œAIAâ€), enacted in September 2011, brought significant changes to the United States patent system, which include a change to a â€œfirst to fileâ€ system from a â€œfirst to inventâ€ system and changes to the procedures for challenging issued patents and disputing patent applications during the examination process, among other things. While interference proceedings are possible for patent claims filed prior to March 16, 2013, many of our filings will be subject to the post- and pre-grant proceedings set forth in the AIA, including citation of prior art and written statements by third parties, third party pre-issuance submissions, ex parte reexamination, inter partes review, post-grant review, and derivation proceedings. We may need to utilize the processes provided by the AIA for supplemental examination or patent reissuance. These proceedings could result in substantial cost to us even if the outcome is favorable. Even if successful, any proceeding may result in loss of certain claims. Any litigation or proceedings could divert our management's time and efforts. Even unsuccessful claims brought by third parties could result in significant legal fees and other expenses, diversion of management time, and disruption in our business. Uncertainties resulting from initiation and continuation of any patent or related litigation could harm our ability to compete.Additional uncertainty may result from legal precedent handed down by the United States Federal Circuit Court and Supreme Court as they determine legal issues concerning the scope and construction of patent claims and inconsistent interpretation of patent laws by the lower courts. Accordingly, we cannot ensure that any of our pending patent applications will result in issued patents, or even if issued, predict the breadth of the claims upheld in our, our licensors', and other companies' patents. Given that the degree of future protection for our proprietary

rights is uncertain, we cannot ensure that: (i) we or our licensors were the first to invent the inventions covered by each of our pending applications, (ii) we or our licensors were the first to file patent applications for these inventions, or (iii) the proprietary technology, products or services we develop will be patentable. In addition, unauthorized parties may attempt to copy or otherwise obtain and use our technology, products and services. Monitoring unauthorized use of our intellectual property rights is difficult, and we cannot be certain that the steps we have taken will prevent unauthorized use of our technology, products or services, particularly in certain foreign countries where the local laws may not protect our proprietary rights as fully as in the United States. Moreover, third parties could practice our inventions in territories where we do not have patent protection. Such third parties may then try to import products made using our inventions into the United States or other countries. If competitors are able to use our proprietary technology, products or services, our ability to compete effectively could be harmed. In addition, others may independently develop and obtain patents for technologies, products or services that are similar to or superior to our technologies, products or services. If that happens, we may need to license these technologies, products or services, and we may not be able to obtain licenses on reasonable terms, if at all, which could cause harm to our business.51Similarly, foreign courts have made, and will likely continue to make, changes in how the patent laws in their respective jurisdictions are interpreted. Changes in patent laws and regulations in other countries or jurisdictions, changes in the governmental bodies that enforce them, or changes in how the relevant governmental authority enforces patent laws or regulations may weaken our ability to obtain new patents or to enforce patents that we own or may obtain in the future. For example, in some cases, we have filed for unitary patent protection under the rules implemented on June 1, 2023, in the European Patent Office. We will continue to assess this route of protection on a case-by-case basis, as applications are filed and patents are granted through the European Patent Office. This may alter our ability to protect our patents in some European countries. Further, the laws of some foreign countries do not protect proprietary rights to the same extent or in the same manner as the laws of the United States. For example, in some foreign jurisdictions, governments have the right to compel patent owners to grant others licenses to their intellectual property under certain circumstances. In addition, any protection afforded by foreign patents may be more limited than that provided under U.S. patent and intellectual property laws. We may encounter significant problems in enforcing and defending our intellectual property both in the United States and abroad. For example, if the issuance in a given country of a patent covering an invention is not followed by the issuance in other countries of patents covering the same invention, or if any judicial interpretation of the validity, enforceability or scope of the claims or the written description or enablement in a patent issued in one country is not similar to the interpretation given to the corresponding patent issued in other countries, our ability to protect our intellectual property rights in those countries may be limited. Changes in either patent laws or in interpretations of patent laws in the United States and other countries may materially diminish the value of our intellectual property rights or narrow the scope of our patent protection. We cannot predict future changes in the interpretation of patent laws or changes to patent laws that might be enacted into law by U.S. and foreign legislative bodies. Those changes may materially affect our patents or patent applications and our ability to obtain additional patent protection in the future. Any of the foregoing could have a material adverse effect on our competitive position, business, financial condition, results of operations and prospects.Third parties may claim that we are infringing, violating or misappropriating their intellectual property rights, which may subject us to costly and time-consuming litigation and prevent us from developing or commercializing our technology, products or services. Our commercial success also depends in part on our ability to operate without infringing, violating or misappropriating patents and other intellectual property rights of third parties, and without breaching any licenses or other agreements that we have entered into with regard to our technologies, products or services. We cannot ensure that patents have not been issued, or will not be issued, to third parties that could block our ability to obtain patents or to operate as we would like. There may be patents in some countries that, if valid, may block our ability to make, use, sell, or offer for sale our technology, products or services in those countries, or import our products into those countries, if we are unsuccessful in circumventing or acquiring rights to these patents. There also may be claims in patent applications filed in some countries that, if granted and valid, may also block our ability to commercialize technology, products, services or processes in these countries if we are unable to circumvent or obtain rights to them. The industries in which we operate and the biotechnology industry, in particular, are characterized by frequent and extensive litigation regarding patents and other intellectual property rights. Many biotechnology companies have employed intellectual property litigation as a way to gain a competitive advantage. We are aware of some patents and patent applications relating to aspects of our technologies, products or services filed by, and issued to, third parties. We cannot assure that if such third-party patents rights are asserted against us that we would ultimately prevail. Any involvement in litigation or other intellectual property proceedings inside and/or outside of the United States to defend against claims that we infringe, misappropriate or violate the intellectual property rights of others may divert our managementâ€™s time from focusing on business operations and could cause us to spend significant amounts of money. Any potential intellectual property litigation also could force us to do one or more of the following: â€¢stop making, using, selling, offering for sale or importing our technologies, products and services that use the subject intellectual property; â€¢pay monetary damages to the third party asserting claims against us; â€¢grant or transfer rights to third parties relating to our patents or other intellectual property rights; â€¢obtain from the third party asserting its intellectual property rights a license to make, sell, offer for sale, import or use the relevant technology, product or service, which license may not be available on reasonable terms, or at all; or 52â€¢redesign those technologies, products, services or processes that use any allegedly infringing, misappropriated or violated intellectual property rights, or relocate the operations relating to the allegedly infringing, misappropriated or violated intellectual property rights to another jurisdiction, which may result in significant cost or delay to us, could be technically infeasible or could prevent us from making, selling, offering for sale, using or importing some of our technologies, products or services in the United States or other jurisdictions. We may be involved in lawsuits to protect or enforce our intellectual property rights, which could be expensive, time-consuming and unsuccessful. Competitors may infringe, violate or misappropriate our intellectual property rights or those of our licensors. To prevent infringement, violation, misappropriation or other unauthorized use, we have in the past filed, and may in the future be required to file, enforcement claims, which can be expensive and time-consuming. In addition, in an enforcement proceeding, a court may decide that the intellectual property right that we own or control is not valid, is unenforceable and/or is not infringed, violated or misappropriated. In addition, in legal proceedings against a third party to enforce a patent directed at one of our technologies, products or services, the defendant could counterclaim that our patent is invalid and/or unenforceable in whole or in part. In patent enforcement litigation in the United States, defendant counterclaims alleging invalidity and/or unenforceability are commonplace. Grounds for a patent validity challenge include an alleged failure to meet any of several statutory requirements, including lack of novelty, obviousness or non-enablement. Grounds for an unenforceability assertion could include an allegation that someone connected with prosecution of the patent withheld relevant information from the United States Patent and Trademark Office (â€œUSPTOâ€) or made a misleading statement during prosecution. Third parties may also raise similar claims before the USPTO, even outside the context of enforcement litigation. The outcome following legal assertions of invalidity and unenforceability is unpredictable, and prior art could render our patents or those of our licensors invalid. If a defendant were to prevail on a legal assertion of invalidity and/or unenforceability, we would lose at least part, and perhaps all, of the patent protection on the respective technology, products or services. Such a loss of patent protection could have a material adverse impact on our business. Even if resolved in our favor, litigation or other legal proceedings relating to our intellectual property rights may cause us to incur significant expenses and could distract our technical and management personnel from their normal responsibilities. In addition, there could be public announcements of the results of hearings, motions or other interim proceedings or developments and if securities analysts or investors perceive these results to be negative, it could have a substantial adverse effect on the price of our common stock. Such litigation or proceedings could substantially increase our expenses and reduce the resources available for operations and research and development activities. We may not have sufficient financial or other resources to conduct such litigation or proceedings adequately. Some of our competitors may be able to sustain the costs of such litigation or proceedings more effectively than we can because of their greater financial resources. Uncertainties resulting from the initiation and continuation of patent litigation or other proceedings could compromise our ability to compete in the marketplace. Furthermore, because of the substantial amount of discovery required in connection with U.S. intellectual property litigation, there is a risk that some of our confidential information could be compromised by disclosure during this type of litigation. We may not be able to enforce our intellectual property rights throughout the world.The laws of some foreign countries where we do business do not protect intellectual property rights to the same extent as the laws of the United States. Many companies have encountered significant problems in protecting and enforcing intellectual property rights in certain foreign jurisdictions. The legal systems of certain countries, particularly certain developing countries, do not favor the enforcement of patents and other intellectual property rights, particularly those relating to biotechnology technologies. Accordingly, our efforts to protect and enforce our intellectual property rights in such countries may be inadequate. This could make it difficult for us to stop the infringement, violation or misappropriation of our patents or other intellectual property rights. Additionally, proceedings to enforce our patent rights in foreign jurisdictions could result in substantial costs and divert our efforts and attention from other aspects of our business.If our biocatalysts, or the genes that code for our biocatalysts, are stolen, misappropriated or reverse engineered, others could use these biocatalysts or genes to produce competing products. Third parties, including our contract manufacturers, customers and those involved in shipping our biocatalysts, often have custody or control of our biocatalysts. If our biocatalysts, or the genes that code for our biocatalysts, were stolen, misappropriated or reverse engineered, they could be used by other parties who may be able to reproduce these biocatalysts for their own commercial gain. If this were to occur, it may be difficult for us to challenge this type of use, especially in countries with limited intellectual property rights protection or in countries in which we do not have patents covering the misappropriated biocatalysts.53Confidentiality and non-use agreements with employees, consultants, advisors and other third parties may not adequately prevent disclosures and non-use of trade secrets and other proprietary information.In addition to patent protection, we also rely on other intellectual property rights, including protection of copyright, trade secrets, know-how and/or other proprietary information that is not patentable or that we elect not to patent. However, trade secrets can be difficult to protect, and some courts are less willing or unwilling to protect trade secrets. To maintain the confidentiality of our trade secrets and proprietary information, we rely in part on trade secret law and contractual agreements to protect our confidential and proprietary information and processes. We generally enter into confidentiality and invention assignment agreements with our employees, consultants and third parties working on our behalf upon their commencement of a relationship with us. However, trade secrets and confidential information are difficult to protect and we cannot guarantee that we have entered into such agreements with each party that may have or have had access to our trade secrets or proprietary technology and processes and we may not enter into such agreements with all employees, consultants and third parties who have been involved in the development of our intellectual property rights. Nevertheless, without our permission or awareness, our confidential and proprietary information may be disclosed to third parties, used by the respective individuals for purposes other than for the Companyâ€™s business, or obtained through illegal means, such that third parties could reverse engineer our biocatalysts, enzyme products and processes, to attempt to develop the same technology or develop substantially equivalent technology.Costly and time-consuming litigation could be necessary to enforce and determine the scope of our confidential and proprietary rights, and failure to protect our trade secrets could adversely affect our competitive business position. If any of our trade secrets were lawfully obtained, we may be unable to prevent them, or those to whom they communicate it, from using that technology or information to compete with us or disclosing it publicly. Therefore, these events could have a material adverse effect on our business, financial condition and results of operations. In particular, a failure to protect our proprietary rights may allow competitors to copy our technology, which could adversely affect our pricing and market share.In addition to contractual measures, we try to protect the confidential nature of our proprietary information by maintaining physical security of our premises and electronic security of our information technology systems. Such security measures may not, for example, in the case of misappropriation of a trade secret by an employee, consultant or other third party with authorized access or with unauthorized access but an intent to steal, provide adequate protection for our proprietary information. Our security measures may not prevent such employee, consultant or other third party from misappropriating our trade secrets and using them or providing them to a competitor, and recourse we take against such misconduct may not provide an adequate remedy to protect our interests fully. While we use commonly accepted security measures, trade secret violations are often a matter of state law in the United States, and the criteria for protection of trade secrets can vary among different jurisdictions. If the steps we have taken to maintain our trade secrets are deemed inadequate, we may have insufficient recourse against third parties for misappropriating the trade secret.Risks Related to Owning our Common StockWe are subject to anti-takeover provisions in our certificate of incorporation and bylaws and under Delaware law that could delay or prevent an acquisition of our company, even if the acquisition would be beneficial to our stockholders. Provisions in our amended and restated certificate of incorporation and our bylaws may delay or prevent an acquisition of the Company. Among other things, our amended and restated certificate of incorporation and bylaws provide for a board of directors which is divided into three classes, with staggered three-year terms and provide that all stockholder action must be effected at a duly called meeting of the stockholders and not by a consent in writing, and further provide that only our board of directors, the chairman of the board of directors, our chief executive officer or president may call a special meeting of the stockholders. In addition, our amended and restated certificate of incorporation allows our board of directors, without further action by our stockholders, to issue up to 5,000,000 shares of preferred stock in one or more series and to fix the rights, preferences, privileges and restrictions thereof. These provisions may also frustrate or prevent any attempts by our stockholders to replace or remove our current management by making it more difficult for stockholders to replace members of our board of directors, who are responsible for appointing the members of our management team. Furthermore, because we are incorporated in Delaware, we are governed by the provisions of Section 203 of the Delaware General Corporation Law (â€œDGCLâ€) which prohibits, with some exceptions, stockholders owning in excess of 15% of our outstanding voting stock from merging or combining with us. Finally, our charter documents establish advanced notice requirements for nominations for election to our board of directors and for proposing matters that can be acted upon at stockholder meetings. Although we believe these provisions together provide for an opportunity to receive higher bids by requiring potential acquirers to negotiate with our board of directors, they would apply even if an offer to acquire our company may be considered beneficial by some stockholders.54Our bylaws designate a state or federal court located within the State of Delaware as the sole and exclusive forum for substantially all disputes between us and our stockholders, which could limit our stockholders' ability to obtain a favorable judicial forum for disputes with us our current or former directors, officers, stockholders, or other employees.Our bylaws provide that, unless we consent in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware shall be the sole and exclusive forum for (i) any derivative action or proceeding brought on behalf of us under Delaware law, (ii) any action asserting a claim of breach of a fiduciary duty owed by any current or former director, officer, or other employee of the Company to us or our stockholders, (iii) any action asserting a claim against us or any of our directors, officers, or other employees arising pursuant to any provision of the DGCL or our certificate of incorporation or bylaws (as either may be amended from time to time), (iv) any action asserting a claim against us governed by the internal affairs doctrine, or (v) any other action asserting an â€œinternal corporate claim,â€ as defined under Section 115 of the DGCL. The forgoing provisions do not apply to any claims arising under the Securities Act and, unless we consent in writing to the selection of an alternative forum, the federal district courts of the United States will be the sole and exclusive forum for resolving any action asserting a claim arising under the Securities Act.These choice of forum provisions may limit a stockholderâ€™s ability to bring a claim in a judicial forum that it finds favorable for disputes with us or any of our current or former directors, officers, or other employees, which may discourage lawsuits with respect to such claims. There is uncertainty as to whether a court would enforce such provisions, and the enforceability of similar choice of forum provisions in other companiesâ€™ charter documents has been challenged in legal proceedings. It is possible that a court could find these types of provisions to be inapplicable or unenforceable, and if a court were to find the choice of forum provision to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving such action in other jurisdictions, which could harm our business, results of operations or financial condition.Our quarterly or annual operating results may fluctuate in the future. As a result, we may fail to meet or exceed the expectations of research analysts or investors, which could cause our stock price to decline. Our financial condition and operating results have varied significantly in the past and may continue to fluctuate from quarter to quarter and year to year in the future due to a variety of factors, many of which are beyond our control. Factors relating to our business that may contribute to these fluctuations include the following factors, as well as other factors described elsewhere in this report: â€¢our ability to achieve or maintain profitability;â€¢our dependence on a limited number of customers;â€¢our product supply agreements with customers have finite duration, may not be extended or renewed and generally do not require the customer to purchase any particular quantity or quantities of our products;â€¢with respect to customers purchasing our products for the manufacture of active pharmaceutical ingredients for which they have exclusivity due to patent protection, the termination or expiration of such patent protection and any resulting generic competition may materially and adversely affect our revenues, financial condition or results of operations;â€¢our dependence on a limited number of products in our performance enzymes business;â€¢our reliance on a limited number

of contract manufacturers for large scale production of substantially all of our enzyme products;â€¢our relationships with, and dependence on, collaborators in our principal markets;â€¢our ability to successfully and timely develop and commercialize new products, including our ECO Synthesisâ„¢ manufacturing platform, for the markets we serve;â€¢the potential of GSK, Merck, Novartis or any other performance enzyme customer terminating their agreements with us;â€¢the success of our customersâ€™ products in the market and the ability of such customers to obtain regulatory approvals for products and processes;â€¢our ability to deploy our technology platform in life science tools markets;â€¢our dependence on our collaborators or customersâ€™ product candidates which could unexpectedly fail at any stage of preclinical or clinical development;55â€¢our dependence on our collaborators or customersâ€™ product candidates which may lack the ability to work as intended or cause undesirable side effects;â€¢our ability to successfully prosecute and protect our intellectual property;â€¢our ability to compete if we do not adequately protect our proprietary technologies or if we lose some of our intellectual property rights;â€¢our ability to avoid infringing the intellectual property rights of third parties;â€¢our involvement in lawsuits to protect or enforce our patents or other intellectual property rights;â€¢our ability to enforce our intellectual property rights throughout the world;â€¢our dependence on, and the need to attract and retain, key management and other personnel; â€¢our ability to prevent the theft or misappropriation of our biocatalysts, the genes that code for our biocatalysts, know-how or technologies;â€¢our ability to protect our trade secrets and other proprietary information from disclosure by employees and others;â€¢our ability to obtain substantial additional capital that may be necessary to expand our business;â€¢our ability to comply with the terms of our Loan Agreement;â€¢our ability to timely pay debt service obligations;â€¢our customersâ€™ ability to pay amounts owed to us in a timely manner;â€¢our ability to avoid charges to earnings as a result of any impairment of goodwill, intangible assets or other long-lived assets;â€¢changes in financial accounting standards or practices may cause adverse, unexpected financial reporting fluctuations and affect our reported results of operations;â€¢our ability to maintain effective internal control over financial reporting;â€¢our dependency on information technology systems, infrastructure and data;â€¢our ability to control and to improve product gross margins;â€¢our ability to protect against risks associated with the international aspects of our business;â€¢the cost of compliance with EU chemical regulations;â€¢potential advantages that our competitors and potential competitors may have in securing funding or developing products;â€¢our ability to accurately report our financial results in a timely manner;â€¢results of regulatory tax examinations;â€¢market and economic conditions may negatively impact our business, financial condition, and share price;â€¢business interruptions due to natural disasters, disease outbreaks or other events beyond our control;â€¢public concerns about the ethical, legal and social ramifications of genetically engineered products and processes;â€¢our ability to integrate our current business with any businesses that we may acquire in the future;â€¢our ability to properly handle and dispose of hazardous materials in our business;â€¢potential product liability claims; â€¢changes to tax law and related regulations could materially affect our tax obligations and effective tax rate; and56â€¢our ability to use our NOLs to offset future taxable income.Due to the various factors mentioned above, and others, the results of any prior quarterly or annual periods should not be relied upon as indications of our future operating performance.We do not intend to pay cash dividends for the foreseeable future.We currently intend to retain our future earnings, if any, to finance the further development and expansion of our business and do not intend to pay cash dividends in the foreseeable future. Any future determination to pay dividends will be at the discretion of our board of directors and will depend on our financial condition, results of operations, capital requirements, restrictions contained in future agreements and financing instruments, business prospects and such other factors as our board of directors deems relevant.General Risk FactorsIf securities or industry analysts do not publish research or reports about our business, or publish negative reports about our business, our stock price and trading volume could decline. The trading market for our common stock will be influenced by the research and reports that securities or industry analysts publish about us or our business. We do not have any control over these analysts. If one or more of the analysts who cover us downgrade our stock or change their opinion of our stock in a negative manner, our stock price would likely decline. If one or more of these analysts cease coverage of our company or fail to regularly publish reports on us, we could lose visibility in the financial markets, which could cause our stock price or trading volume to decline.We face risks associated with our international business. While we have a limited number of employees located outside of the United States, we are and will continue to be dependent upon contract manufacturers located outside of the United States. In addition, we have customers and partners located outside of the United States. Conducting business internationally exposes us to a variety of risks, including:â€¢changes in or interpretations of U.S. or foreign laws or regulations that may adversely affect our ability to sell our products, repatriate profits to the United States or operate our foreign-located facilities; â€¢the imposition of tariffs; â€¢the imposition of limitations on, or increase of, withholding and other taxes on remittances and other payments by foreign subsidiaries or joint ventures; â€¢the imposition of limitations on genetically-engineered or other products or processes and the production or sale of those products or processes in foreign countries; â€¢currency exchange rate fluctuations; â€¢uncertainties relating to foreign laws, regulations and legal proceedings including pharmaceutical, tax, import/export, anti-corruption and exchange control laws; â€¢the availability of government subsidies or other incentives that benefit competitors in their local markets that are not available to us; â€¢increased demands on our limited resources created by our operations may constrain the capabilities of our administrative and operational resources and restrict our ability to attract, train, manage and retain qualified management, technicians, scientists and other personnel; â€¢economic or political instability in foreign countries; â€¢difficulties associated with staffing and managing foreign operations; and â€¢the need to comply with a variety of United States and foreign laws applicable to the conduct of international business, including import and export control laws and anti-corruption laws. 57Market and economic conditions may negatively impact our business, financial condition, and share price.Concerns about inflation, energy costs, geopolitical issues, the United States mortgage market and a declining real estate market, unstable global credit markets and financial conditions, and volatile oil prices have led to periods of significant economic instability, diminished liquidity and credit availability, declines in consumer confidence and discretionary spending, diminished expectations for the global economy and expectations of slower global economic growth going forward, increased unemployment rates, and increased credit defaults in recent years. Our general business strategy may be adversely affected by any such economic downturns, volatile business environments and continued unstable or unpredictable economic and market conditions. During 2023, the closures of Silicon Valley Bank (â€œSVBâ€) and Signature Bank (â€œSignatureâ€) and their placement into receivership with the Federal Deposit Insurance Corporation, and the government-brokered sale of the deposits and majority of assets of First Republic Bank to JPMorgan Chase, created bank-specific and broader financial institution liquidity risk and concerns. Although government intervention ensured that depositors at these banks have access to their funds, future adverse developments with respect to specific financial institutions or the broader financial services industry may lead to market-wide liquidity shortages, impair the ability of companies to access near-term working capital needs, and create additional market and economic uncertainty. There can be no assurance that future credit and financial market instability and a deterioration in confidence in economic conditions will not occur, and we cannot predict the impact or follow-on effects of these insolvencies more broadly or on our business in particular. Further, we cannot guarantee that the government will intervene to provide depositors with access to funds if similar events occur in the future. If other banks and financial institutions enter receivership or become insolvent in the future, our ability to access our existing cash, cash equivalents, and investments may be threatened, which could have a material adverse effect on our business and financial condition. In addition, if the market and economic conditions described above continue to deteriorate or do not improve, it may make any necessary debt or equity financing more difficult to complete, more costly, and more dilutive. Failure to secure any necessary financing in a timely manner and on favorable terms could have a material adverse effect on our growth strategy, financial performance, and stock price. Additionally, rising rates of inflation have increased the costs associated with conducting our business, including by causing substantial increases in the costs of materials, including raw materials and consumables, equipment, services, and labor. Moreover, given the unpredictable nature of the current economic climate, including future changes in rates of inflation, it may be increasingly difficult for us to predict and control our future expenses, which may harm our ability to conduct our business.Business interruptions resulting from disasters or other disturbances could delay us in the process of developing our products and could disrupt our sales. Our business continuity and disaster recovery plans may not adequately protect us from a serious disaster or other disturbance.Our headquarters and other facilities are located in the San Francisco Bay Area, which in the past has experienced both severe earthquakes and wildfires. Earthquakes, wildfires or other natural disasters could severely disrupt our operations, and have a material adverse effect on our business, results of operations, financial condition and prospects. We are also vulnerable to other types of disasters and other events that could disrupt our operations, such as riot, civil disturbances, war, terrorist acts, public health emergencies, domestic or foreign conflicts, infections in our laboratory or production facilities or those of our customers or contract manufacturers and other events beyond our control. If a natural disaster or other event occurred that prevented us from using all or a significant portion of our headquarters, that damaged critical infrastructure, such as our enterprise financial systems or manufacturing resource planning and enterprise quality systems, or that otherwise disrupted operations, it may be difficult or, in certain cases, impossible, for us to continue our business for a substantial period of time. The disaster recovery and business continuity plans we have in place currently are limited and are unlikely to prove adequate in the event of a serious disaster or similar event, and we may incur substantial expenses as a result of the limited nature of such plans. We do not carry insurance for earthquakes and we may not carry sufficient business interruption insurance to compensate us for losses that may occur. Any losses or damages we incur could have a material adverse effect on our cash flows and success as an overall business.58We are dependent on information technology systems, infrastructure and data, and any failure of these systems could harm our business. Security breaches, loss of data and other disruptions could compromise sensitive information related to our business or prevent us from accessing critical information and expose us to liability, which could adversely affect our business, results of operations and financial condition.Information technology helps us operate efficiently, interface with customers, maintain financial accuracy and efficiency and accurately produce our financial statements. If we do not allocate and effectively manage the resources necessary to build and sustain the proper technology infrastructure, we could be subject to transaction errors, processing inefficiencies, the loss of customers, business disruptions or the loss of or damage to intellectual property through security breach. If our information technology systems do not effectively collect, store, process and report relevant data for the operation of our business, whether due to equipment malfunction or constraints, software deficiencies, or human error, our ability to effectively plan, forecast and execute our business plan and comply with applicable laws and regulations will be impaired, perhaps materially. Our information technology systems and those of our external vendors, strategic partners and other contractors or consultants are vulnerable to attack and damage or interruption from computer viruses and malware (e.g. ransomware), malicious code, natural disasters, terrorism, war, telecommunication and electrical failures, hacking, cyberattacks, phishing attacks and other social engineering schemes, employee theft or misuse, human error, fraud, denial or degradation of service attacks, sophisticated nation-state and nation-state-supported actors or unauthorized access or use by persons inside our organization, or persons with access to systems inside our organization. Any such impairment could materially and adversely affect our financial condition, results of operations, cash flows and the timeliness with which we report our internal and external operating results.Our business may require us to use and store personal information of our customers, employees, and business partners. This may include names, addresses, phone numbers, email addresses, contact preferences, tax identification numbers and payment account information. We require usernames and passwords in order to access our information technology systems. We also use encryption and authentication technologies to secure the transmission and storage of data. However, these security measures may be compromised as a result of security breaches by unauthorized persons, employee error, malfeasance, faulty password management or other irregularity, and result in persons obtaining unauthorized access to our data or accounts. Third parties may attempt to fraudulently induce employees or customers into disclosing usernames, passwords or other sensitive information, which may in turn be used to access our information technology systems. For example, our employees have received â€œphishingâ€ emails and phone calls attempting to induce them to divulge passwords and other sensitive information.In addition, unauthorized persons may attempt to hack into our products or systems to obtain personal data relating to employees and other individuals, our confidential or proprietary information or confidential information we hold on behalf of third parties. We also rely on external vendors to supply and/or support certain aspects of our information technology systems. The systems of these external vendors may contain defects in design or manufacture or other problems that could unexpectedly compromise information security of our own systems, and we are dependent on these third parties to deploy appropriate security programs to protect their systems. If we or our third-party vendors were to experience a significant cybersecurity breach of our or their information systems or data, the costs associated with the investigation, remediation and potential notification of the breach to counterparties and data subjects could be material. Our remediation efforts may not be successful. Further, if such an event were to occur and cause interruptions in our operations, it could result in a material disruption of our development programs and our business operations, whether due to a loss, corruption or unauthorized disclosure of our trade secrets, personal information or other proprietary or sensitive information or other similar disruptions. Attacks upon information technology systems are also increasing in their frequency, levels of persistence, sophistication and intensity, and are being conducted by sophisticated and organized groups and individuals with a wide range of motives and expertise. As a result of the remote work policies we initiated in response to the COVID-19 pandemic, and our continued hybrid working environment, we may also face increased cybersecurity risks due to our reliance on internet technology and the number of our employees who are working remotely, which may create additional opportunities for cybercriminals to exploit vulnerabilities. We have programs in place to detect, contain and respond to data security incidents, and we make ongoing improvements to our information-sharing products in order to minimize vulnerabilities, in accordance with industry and regulatory standards. However, because the techniques used to obtain unauthorized access to or sabotage systems change frequently and may be difficult to detect, we may not be able to anticipate and prevent these intrusions or mitigate them when and if they occur. Even if identified, we may be unable to adequately and timely investigate or remediate incidents or breaches due to attackers increasingly using tools and techniques that are designed to circumvent controls, to avoid detection and to remove or obfuscate forensic evidence.59We and certain of our external vendors are from time to time subject to cyberattacks and security incidents. While we do not believe that we have experienced any significant system failure, accident, or security breach to date, if such an event were to occur, it could result in the unauthorized access to or unauthorized use, disclosure, release or other processing of personal information, it may be necessary to notify individuals, governmental authorities, supervisory bodies, the media and other parties pursuant to privacy and security laws. Any security compromise affecting us, our service providers, vendors, strategic partners, other contractors, consultants or our industry, whether real or perceived, could harm our reputation, erode confidence in the effectiveness of our security measures and lead to regulatory scrutiny. To the extent that any disruption or security breach were to result in a loss of, or damage to, our data or systems, or inappropriate disclosure of confidential or proprietary or personal information, we could incur liability, including litigation exposure, penalties and fines, which may not be covered by insurance or may be in excess of our insurance coverage. Additionally, we could become the subject of regulatory action or investigation, our competitive position could be harmed and the further development of our products could be delayed. If such an event were to occur and cause interruptions in our operations, it could result in a material disruption of our business and could materially and adversely affect our business, results of operations and financial condition.Actual or perceived failures to comply with applicable data protection, privacy and security laws, regulations, standards and other requirements could adversely affect our business, results of operations and financial condition.The global data protection landscape is rapidly evolving, and we are or may become subject to state, federal and foreign laws, regulations, decisions and directives governing the privacy, security, collection, storage, transmission, use, processing, retention and disclosure of personal information. Any failure or perceived failure by us to comply with applicable laws or regulations, our internal policies and procedures or our contracts governing our processing of personal information could result in negative publicity, government investigations and enforcement actions, claims by third parties and damage to our reputation, any of which could have a material adverse effect on our operations, financial performance and business.In the United States, HIPAA imposes, among other things, certain standards relating to the privacy, security, transmission and breach reporting of certain individually identifiable health information. Certain states have also adopted and continue to adopt new privacy and security laws and regulations, which govern the privacy, processing and protection of health-related and other personal information. Such laws and regulations will be subject to interpretation by various courts and other governmental authorities, thus creating potentially complex compliance issues for us and our future customers and strategic partners. For example, the California Consumer Privacy Act (â€œCCPAâ€) went into effect on January 1, 2020. The CCPA creates individual privacy rights for California consumers and increases the privacy and security obligations of entities handling certain personal information. The CCPA also provides for civil penalties for violations, as well as a private right of action for data breaches (which has increased the likelihood of, and risks associated with, data breach litigation). Further, the California Privacy Rights Act (â€œCPRAâ€) significantly amended the CCPA, which went into effect in January 2023. It imposes additional data privacy obligations on covered businesses, including additional consumer rights processes, limitations on data uses, new audit requirements for higher risk data and opt outs for certain uses of sensitive data. It also created a new California privacy protection agency authorized to issue substantive regulations and could result in increased privacy and information security enforcement. Additional compliance investment and potential business process

changes may also be required. Similar laws regulating personal information generally or health information in particular have passed in more than a dozen states and have been proposed in other states and at the federal level, reflecting a trend toward more stringent privacy legislation in the United States. These developments increase our compliance burden and our risk, including risks of regulatory fines, litigation and associated reputational harm. Any liability from failure to comply with the requirements of these laws could adversely affect our financial condition. Furthermore, the Federal Trade Commission (â€œFTCâ€) and many state Attorneys General continue to enforce federal and state consumer protection laws against companies for the collection, use, sharing and security of personal information that appear to be unfair or deceptive. For example, according to the FTC, failing to take appropriate steps to keep consumersâ€™ personal information secure can constitute unfair acts or practices in or affecting commerce in violation of Section 5(a) of the Federal Trade Commission Act. The FTC expects a companyâ€™s data security measures to be reasonable and appropriate in light of the sensitivity and volume of consumer information it holds, the size and complexity of its business, and the cost of available tools to improve security and reduce vulnerabilities.60In the European Union (â€œEUâ€), the EU General Data Protection Regulation (â€œEU GDPRâ€) governs the processing of personal data. The UK has implemented the EU GDPR as the UK GDPR which sits alongside the UK Data Protection Act 2018 (the â€œUK GDPRâ€, and together with the EU GDPR, the â€œGDPRâ€). The GDPR imposes requirements for controllers, including (among others) specific requirements for obtaining valid consent where consent is the legal basis for processing, requirements around accountability and transparency, the obligation to consider data protection when any new products or services are developed, the obligation to comply with individualsâ€™ data protection rights, and the obligation to notify relevant data supervisory authorities of notifiable personal data breaches without undue delay (and no later than 72 hours) after becoming aware of the personal data breach (and affected data subjects where the personal data breach is likely to result in a high risk to their rights and freedoms). The EU GDPR provides that EU member states may enact their own additional national laws and regulations regarding the processing of genetic, biometric or health data, which could affect our ability to use and share personal data or could cause our costs to increase and potentially harm our business and financial condition. Failure to comply with the requirements of the GDPR can result in (among other things) fines of up to the greater of â‚¬20 million (under the EU GDPR) or Â£17.5 million (under the UK GDPR) or 4% of an organizationâ€™s total worldwide annual turnover of the preceding financial year and other administrative penalties. To the extent that we are subject to the GDPR, compliance with the GDPR may require substantial amendments to our procedures and policies and these changes could adversely impact our business by increasing operational and compliance costs or impact business practices. Further, there is a risk that the amended policies and procedures will not be implemented correctly or that individuals within the business will not be fully compliant with the new procedures. There is a risk that we could be impacted by a cybersecurity incident that results in loss or unauthorized disclosure of personal data, potentially resulting in us facing harms similar to those described above.Among other requirements, the EU GDPR prohibits the international transfer of personal data subject to the GDPR from the European Economic Area (â€œEEAâ€) to third countries that the European Commission does not recognize as having an â€˜adequateâ€™ level of data protection, unless a data transfer mechanism has been put in place or a derogation under the EU GDPR can be relied on. In July 2020, the Court of Justice of the EU in its Schrems II judgement limited how organizations could lawfully transfer personal data from the EEA to the United States by invalidating the EU-U.S. Privacy Shield for purposes of international transfers and imposing further restrictions on the use of standard contractual clauses (â€œEU SCCsâ€), including a requirement for companies to carry out a transfer privacy impact assessment (â€œTIAâ€). A TIA, among other things, assesses laws governing access to personal data in the recipient country and considers whether supplementary measures that provide privacy protections additional to those provided under the EU SCCs will need to be implemented to ensure an â€˜essentially equivalentâ€™ level of data protection to that afforded in the EEA. On October 7, 2022, U.S. President Biden introduced an Executive Order to facilitate a new Trans-Atlantic Data Privacy Framework (â€œDPFâ€) and in July 2023, the European Commission adopted its Final Implementing Decision granting the United States adequacy (â€œAdequacy Decisionâ€) for EU-U.S. transfers of personal data for entities self-certified to the DPF. Entities relying on EU SCCs for transfers to the United States are also able to rely on the analysis in the Adequacy Decision as support for their TIA regarding the equivalence of U.S. national security safeguards and redress. The UK GDPR also imposes similar restrictions on transfers of personal data from the UK to jurisdictions that the UK Government does not consider adequate, including the United States. The UK Government has published its own form of the EU SCCs, known as the International Data Transfer Agreement and an International Data Transfer Addendum to the new EU SCCs. The UK Information Commissionerâ€™s Office has also published its own version of the TIA and guidance on international transfers, although entities may choose to adopt either the EU or UK-style TIA. Further, on September 21, 2023, the UK Secretary of State for Science, Innovation and Technology established a UK-U.S. data bridge (i.e., a UK equivalent of the Adequacy Decision) and adopted UK regulations to implement the UK-U.S. data bridge (â€œUK Adequacy Regulationsâ€). Personal data may now be transferred from the UK under the UK-U.S. data bridge through the UK extension to the DPF to organizations self-certified under the UK extension to DPF.As we continue to expand into other foreign countries and jurisdictions, we may be subject to additional laws and regulations that may affect how we conduct business.61Although we work to comply with applicable laws, regulations and standards, our contractual obligations and other legal obligations, these requirements are evolving and may be modified, interpreted and applied in an inconsistent manner from one jurisdiction to another, and may conflict with one another or other legal obligations with which we must comply. Various federal, state and foreign legislative or regulatory bodies may enact new or additional laws and regulations concerning privacy, data-retention and data-protection issues, including laws or regulations mandating disclosure to domestic or international law enforcement bodies, which could adversely impact our business or our reputation with customers. For example, some countries have adopted laws mandating that certain personal information regarding customers in their country be maintained solely in their country. Having to maintain local data centers and redesign product, service and business operations to limit processing of personal information to within individual countries could increase our operating costs significantly. Any failure, or perceived failure, by us to comply with federal, state or international privacy, data-retention or data-protection-related laws, regulations, orders or industry self-regulatory principles could result in proceedings or actions against us by governmental entities or others, a loss of customer confidence, damage to our brand and reputation and a loss of customers, any of which could have an adverse effect on our business.Evolving expectations around corporate responsibility practices, specifically related to environmental, social and governance (â€œESGâ€) matters, may expose us to reputational and other risks.Investors, stockholders, customers, suppliers and other third parties are increasingly focusing on ESG and corporate social responsibility endeavors and reporting. Companies that do not adapt to or comply with the evolving investor or stakeholder expectations and standards, or that are perceived to have not responded appropriately, may suffer from reputational damage, which could result in the business, financial condition and/or stock price of a company being materially and adversely affected. For example, certain customers have inquired about our ESG practices and may impose ESG guidelines, procurement policies, sustainability standards, mandates or reporting requirements for, and may scrutinize relationships more closely with, their suppliers, including us, which may lengthen sales cycles, increase our costs or impair our ability to attract and retain customers. Further, this increased focus on ESG issues may result in new regulations, international accords and/or third-party requirements that could adversely impact our business, or certain shareholders reducing or eliminating their holdings of our stock. An allegation or perception that we have not taken sufficient action in these areas could negatively harm our reputation. Additionally, the subjective nature and wide variety of methods and processes used by various stakeholders, including investors, to assess environmental, social, and governance criteria could result in a negative perception or misrepresentation of the company's sustainability policies and practices.ITEMÂ 2.UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDSNone.ITEMÂ 3.DEFAULTS UPON SENIOR SECURITIESNone.ITEMÂ 4.MINE SAFETY DISCLOSURESNot applicable.ITEMÂ 5.OTHER INFORMATIONRule 10b5-1 Trading ArrangementsDuring the three months ended June 30, 2024, none of the directors or executive officers of the Company adopted or terminated a Rule 10b5-1 trading arrangement or a â€œnon-Rule 10b5-1 trading arrangementâ€ (each as defined in Item 408 of Regulation S-K). 62ITEMÂ 6.EXHIBITS3.1Amended and Restated Certificate of Incorporation of Codexis, Inc. filed with the Secretary of the State of the State of Delaware on AprilÂ 27, 2010 and effective as of AprilÂ 27, 2010 (incorporated by reference to Exhibit 3.1 to the Company's Quarterly Report on Form 10-Q for the quarter ended MarchÂ 31, 2010, filed on MayÂ 28, 2010).3.2Certificate of Designations of Series A Junior Participating Preferred Stock of Codexis, Inc., filed with the Secretary of State of the State of Delaware on September 4, 2012 (incorporated by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K, filed on September 4, 2012).3.3Certificate of Amendment to the Amended and Restated Certificate of Incorporation of Codexis, Inc., filed with the Secretary of the State of the State of Delaware on June 14, 2023 (incorporated by reference to Exhibit 3.1 to the Companyâ€™s Current Report on Form 8-K, filed on June 16, 2023).3.4Amended and Restated Bylaws of Codexis, Inc. effective as of February 8, 2024 (incorporated by reference to Exhibit 3.1 to the Companyâ€™s Current Report on Form 8-K filed on February 9, 2024).4.1Reference is made to Exhibits 3.1 through 3.4.4.2Form of the Companyâ€™s Common Stock Certificate (incorporated by reference to Exhibit 4.1 to the Companyâ€™s Quarterly Report on Form 10-Q for the quarter ended June 30, 2012, filed on August 9, 2012).4.3Description of Codexis' Securities Registered Pursuant to Section 12 of the Securities Exchange Act of 1934. (incorporated by reference to Exhibit 4.4 to the Companyâ€™s Annual Report on Form 10-K, filed on February 28, 2024).10.1*Amendment No. 1 to the Loan and Security Agreement by and between the Company and Innovatus Life Sciences Fund I, LP., effective as of February 13, 2024.31.1Certification of Principal Executive Officer Required Under Rule 13a-14(a) and 15d-14(a) of the Securities Exchange Act of 1934, as amended.31.2Certification of Principal Financial Officer Required Under Rule 13a-14(a) and 15d-14(a) of the Securities Exchange Act of 1934, as amended.32.1Certification of Principal Executive Officer and Principal Financial Officer Required Under Rule 13a-14(b) of the Securities Exchange Act of 1934, as amended, and 18 U.S.C. Â§1350.101Â The following materials from the Company's Quarterly Report on Form 10-Q for the quarter ended JuneÂ 30, 2024, formatted in Inline Extensible Business Reporting Language (â€œiXBRLâ€) includes: (i) UnauditedÂ Condensed Consolidated Balance Sheets at JuneÂ 30, 2024 and DecemberÂ 31, 2023 (ii)Â Unaudited Condensed Consolidated Statements of Operations for the Three and Six Months Ended JuneÂ 30, 2024 and 2023, (iii)Â Unaudited Condensed Consolidated Statements of Comprehensive Loss for the Three and Six Months Ended JuneÂ 30, 2024 and 2023, (iv)Â Unaudited Condensed Consolidated Statements of Stockholders' Equity for the Three and Six Months Ended JuneÂ 30, 2024 and 2023, (v) Unaudited Condensed Consolidated Statements of Cash Flows for the Six Months Ended JuneÂ 30, 2024 and 2023 and (v)Â Notes to Unaudited Condensed Consolidated Financial Statements.101.SCHInline XBRL Taxonomy Extension Schema Document101.CALInline XBRL Taxonomy Extension Calculation Linkbase Document101.DEFInline XBRL Taxonomy Extension Definition Linkbase Document101.LABInline XBRL Taxonomy Extension Label Linkbase Document101.PREInline XBRL Taxonomy Extension Presentation Linkbase Document104The cover page from the Companyâ€™s Quarterly Report on Form 10-Q for the quarter ended JuneÂ 30, 2024, formatted in Inline XBRL and contained in Exhibit 101.*The schedules and exhibits to this agreement have been omitted pursuant to Item 601(a)(5) of Regulation S-K. A copy of any omitted schedule and/or exhibit will be furnished to the SEC upon request,63SIGNATURESPursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.Codexis,Â Inc.Date:August 8, 2024By:/s/ Stephen DillyStephen DillyPresidentÂ andÂ ChiefÂ ExecutiveÂ Officer(principal executive officer)Date:August 8, 2024By:/s/ Sriram RyaliSriram RyaliChief Financial Officer(principal financial and accounting officer)64 EX-10.1 2 codexis-ex101innovatusfirs.htm EX-10.1 DocumentCERTAIN CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT, MARKED BY [***], HAS BEEN OMITTED BECAUSE IT IS BOTH (I) NOT MATERIAL AND (II) IS THE TYPE THAT THE REGISTRANT TREATS AS PRIVATE OR CONFIDENTIAL.FIRST AMENDMENT TO LOAN AND SECURITY AGREEMENTThis FIRST AMENDMENT TO LOAN AND SECURITY AGREEMENT (this â€œAgreementâ€) is entered into as of May 1, 2024, and effective as of February 13, 2024, by and among INNOVATUS LIFE SCIENCES LENDING FUND I, LP, a Delaware limited partnership (together with its successors and assigns, â€œInnovatusâ€), as collateral agent (in such capacity, together with its successors and assigns in such capacity, â€œCollateral Agentâ€), the Lenders listed on Schedule 1.1 thereof or otherwise a party thereto from time to time (each a â€œLenderâ€ and collectively, â€œLendersâ€), and CODEXIS, INC., a Delaware corporation (â€œBorrowerâ€).RecitalsA.Â Â Â Â Â Collateral Agent, Lenders, and Borrower have entered into that certain Loan and Security Agreement dated as of February 13, 2024 (as the same may from time to time be amended, modified, supplemented or restated, the â€œLoan Agreementâ€). B.Â Â Â Â Â Lenders have extended credit to Borrower for the purposes permitted in the Loan Agreement.C.Â Â Â Â Â Borrower and Lenders desire to increase (i) [***] and (ii) [***] in accordance with the terms set forth herein.D.Â Â Â Â Â Collateral Agent and Lenders have agreed to amend certain provisions of the Loan Agreement, but only to the extent, in accordance with the terms, subject to the conditions and in reliance upon the representations and warranties set forth below.AgreementÂ Â Â Â Â Now, Therefore, in consideration of the foregoing recitals and other good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, and intending to be legally bound, the parties hereto agree as follows:1.Definitions. Capitalized terms used but not defined in this Agreement shall have the meanings given to them in the Loan Agreement.2.Amendments. The Loan Agreement is hereby amended as set forth below:2.1Section 5.13 (Subsidiaries). Section 5.13 of the Loan Agreement is amended and restated as follows:5.13Â Â Â Â Â Subsidiaries. No Subsidiary of Borrower existing as of the Effective Date (i) owns any assets with a value in excess of $1,000.00, individually or in the aggregate [***], (ii) owns any Intellectual Property other than, with respect to Codexis Mayflower Holdings, LLC, non-active Intellectual Property, foreign-registered or filed Intellectual Property and United States Copyrights to be transferred to Borrower in accordance with Section 6.14(g), or (iii) conducts any operations or transactions other than those required for liquidation or dissolution of such Subsidiary. 2.2Section 7.14 (Subsidiaries). Section 7.14 of the Loan Agreement is amended and restated as follows:7.14Â Â Â Â Â Subsidiaries. No more than five percent (5%) of the assets or revenues of Borrower and its Subsidiaries on a consolidated basis shall be owned or produced by any 302497102 v2CERTAIN CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT, MARKED BY [***], HAS BEEN OMITTED BECAUSE IT IS BOTH (I) NOT MATERIAL AND (II) IS THE TYPE THAT THE REGISTRANT TREATS AS PRIVATE OR CONFIDENTIAL.Foreign Subsidiary. Borrower shall not directly or indirectly lend to, contribute capital to, or guarantee obligations of, Foreign Subsidiaries in an amount exceeding $250,000.00 in the aggregate. No Subsidiary of Borrower existing on the Effective Date that is not a Loan Party may (i) own any assets with a value in excess of $1,000.00, individually, or in the aggregate; [***], (ii) own any Intellectual Property, other than, with respect to Codexis Mayflower Holdings, LLC, non-active Intellectual Property, foreign-registered or filed Intellectual Property and United States Copyrights to be transferred to Borrower in accordance with Section 6.14(g), or (iii) conduct any operations or transactions other than those required for liquidation or dissolution of such Subsidiary. 2.3Section 13 (Definitions). The following terms and their definitions are added to Section 13 of the Loan Agreement in appropriate alphabetical order:â€œCodexis Indiaâ€ means Codexis Laboratories India Pte, Ltd., a Subsidiary of Borrower.â€œSpecified Periodâ€ means the period commencing on the Effective Date and ending on the earlier of (i) the date of dissolution of Codexis India and (ii) December 31, 2024.2.4Exhibit A (Description of Collateral) to the Loan Agreement is replaced with Exhibit A attached hereto.2.5Schedule 6.13 (Liquidity Covenant) to the Loan Agreement is replaced with Schedule 6.13 attached hereto. 3.Limitation of Agreement.3.1This Agreement is effective for the purposes set forth herein and shall be limited precisely as written and shall not be deemed to (a)Â be a consent to any amendment, waiver or modification of any other term or condition of any Loan Document, or (b)Â otherwise prejudice any right or remedy which Collateral Agent and Lenders may now have or may have in the future under or in connection with any Loan Document.3.2This Agreement shall be construed in connection with and as part of the Loan Documents, and all terms, conditions, representations, warranties, covenants and agreements set forth in the Loan Documents are hereby ratified and confirmed and shall remain in full force and effect.4.Representations and Warranties. Borrower represents and warrants to Collateral Agent and Lenders as follows:4.1(a)Â the representations and warranties contained in the Loan Documents are true, accurate and complete in all material respects (except those representations and warranties that are qualified by materiality which shall be true and correct in all respects) as of the date hereof (except to the extent such representations and warranties relate to an earlier date, in which case they are true and correct as of such date), and (b)Â no Event of Default has occurred and is continuing immediately before and after giving effect to this Agreement;4.2Borrower has the power and authority to execute and deliver this Agreement and to perform its obligations under the Loan Agreement;4.3The organizational documents of Borrower delivered to Collateral Agent and Lenders on the Effective Date or subsequent thereto remain true, accurate and complete and have not been amended, supplemented or restated and are and continue to be in full force and effect;302497102 v2CERTAIN CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT, MARKED BY [***], HAS BEEN OMITTED BECAUSE IT IS BOTH (I) NOT MATERIAL AND (II) IS THE TYPE THAT THE REGISTRANT TREATS AS PRIVATE OR CONFIDENTIAL.4.4The execution and delivery by Borrower of this Agreement and the performance by Borrower of its obligations under the Loan Agreement have been duly authorized by all necessary action on the part of Borrower; 4.5The execution and delivery by Borrower of this Agreement and the performance by Borrower of its obligations under the Loan Agreement do not and will not contravene (a)Â any law or regulation binding on or affecting Borrower, (b)Â any contractual restriction with a Person binding on Borrower, (c)Â any order, judgment or decree of any court or other governmental or public body or authority, or subdivision thereof, binding on Borrower, or (d)Â the organizational documents of Borrower; 4.6The execution and delivery by Borrower of this Agreement and the performance by

Borrower of its obligations under the Loan Agreement do not require any order, consent, approval, license, authorization or validation of, or filing, recording or registration with, or exemption by any governmental or public body or authority, or subdivision thereof, binding on either Borrower, except as already has been obtained or made; and4.7This Agreement has been duly executed and delivered by Borrower and is the binding obligation of Borrower, enforceable against Borrower in accordance with its terms, except as such enforceability may be limited by bankruptcy, insolvency, reorganization, liquidation, moratorium or other similar laws of general application and equitable principles relating to or affecting creditorsâ€™ rights.5.Prior Agreement. The Loan Documents are hereby ratified and reaffirmed and shall remain in full force and effect. This Agreement is not a novation and the terms and conditions of this Agreement shall be in addition to and supplemental to all terms and conditions set forth in the Loan Documents. In the event of any conflict or inconsistency between this Agreement and the terms of such documents, the terms of this Agreement shall be controlling, but such document shall not otherwise be affected or the rights therein impaired.6.Integration. This Agreement and the Loan Documents represent the entire agreement about this subject matter and supersede prior negotiations or agreements. All prior agreements, understandings, representations, warranties, and negotiations between the parties about the subject matter of this Agreement and the Loan Documents merge into this Agreement and the Loan Documents.7.Counterparts. This Agreement may be executed in any number of counterparts and all such counterparts taken together shall be deemed to constitute one and the same instrument.8.Conditions to Effectiveness. This Agreement shall be deemed effective upon the due execution and delivery to Collateral Agent and Lenders, in form and substance reasonably satisfactory to Collateral Agent and each Lender, such documents, and completion of such other matters, as Collateral Agent and each Lender may reasonably deem necessary or appropriate (and requested in writing at least three Business Days prior to the date hereof), including, without limitation:a)this Agreement duly executed by each party hereto; and b)Borrowerâ€™s payment of all Lendersâ€™ Expenses incurred through the date of this Agreement to the extent due and payable.9.Miscellaneous.9.1This Agreement shall constitute a Loan Document under the Loan Agreement; the failure to comply with the covenants contained herein shall constitute an Event of Default under the Loan Agreement; and all obligations included in this Agreement (including, without limitation, all 302497102 v2CERTAIN CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT, MARKED BY [***], HAS BEEN OMITTED BECAUSE IT IS BOTH (I) NOT MATERIAL AND (II) IS THE TYPE THAT THE REGISTRANT TREATS AS PRIVATE OR CONFIDENTIAL.obligations for the payment of principal, interest, fees, and other amounts and expenses) shall constitute obligations under the Loan Agreement and secured by the Collateral.9.2Each provision of this Agreement is severable from every other provision in determining the enforceability of any provision.10.Governing Law. This Agreement and the rights and obligations of the parties hereto shall be governed by and construed in accordance with the laws of the State of New York.[Signature pages follow.]302497102 v2IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed as of the date first written above.BORROWER:CODEXIS, INC.By /s/ Sri RyaliÂ Â Â Â Name: Sri RyaliÂ Â Â Â Title: CFOÂ Â Â Â IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed as of the date first written above.302497102 v2COLLATERAL AGENT AND LENDER:INNOVATUS LIFE SCIENCES LENDING FUND I, LPBy: Innovatus Life Sciences GP, LPIts: General PartnerBy /s/ Andrew DymÂ Â Â Â Name: Andrew DymTitle: Authorized SignatoryÂ Â Â Â 302497102 v2EXHIBIT ADescription of CollateralThe Collateral consists of all of Borrowerâ€™s presently owned and hereafter acquired or arising right, title and interest in and to following personal property and fixtures:All goods, Accounts (including health care insurance receivables), Equipment, fixtures, Inventory, contract rights or rights to payment of money, leases, license agreements, franchise agreements, General Intangibles (including Intellectual Property, payment intangibles, and software), commercial tort claims, [***], documents, instruments (including any promissory notes), chattel paper (whether tangible or electronic), cash, money, deposit accounts and other Collateral Accounts, all certificates of deposit, fixtures, letters of credit (whether or not the letter of credit is evidenced by a writing) and letter-of-credit rights, investment property (including certificated securities, uncertificated securities, securities entitlements, securities accounts, commodity contracts, and commodity accounts), supporting obligations, and financial assets, whether now owned or hereafter acquired, wherever located; andAll Borrowerâ€™s Books relating to the foregoing, and any and all claims, rights and interests in any of the above and all substitutions for, additions, attachments, accessories, accessions and improvements to and replacements, products, proceeds and insurance proceeds of any or all of the foregoing.Notwithstanding the foregoing, the Collateral shall not include: (i) any interest of a Loan Party as a lessee under an Equipment lease if such Loan Party is prohibited by the terms of such lease from granting a security interest in such lease or under which such an assignment or Lien would cause a default to occur under such lease; provided, however, that upon termination of such prohibition, such interest shall immediately become Collateral without any action by any Loan Party or Lender, (ii) Equipment that is subject to a Permitted Lien in connection with the financing of such Equipment if the holder of such Lien has prohibited in writing the applicable Loan Party from granting Liens on such property in favor of third parties; provided that immediately upon the ineffectiveness, lapse or termination of any such provision, the term â€œCollateralâ€ shall automatically include, and the applicable Loan Party shall be deemed to have granted a security interest in, all of its rights, title and interests in and to such property as if such provision had never been in effect, (iii) any Excluded Accounts, (iv) the equity interests in any joint venture where the pledge of such equity interests would be prohibited by any applicable contractual requirement pertaining to any such joint venture, or (v) any leases, licenses, permits or agreements to which Borrower is a party, or any of its right, title or interest thereunder, to the extent that, and for so long as, a grant of a security interest therein would, under the express terms of such lease, license, permit or agreement, result in a breach of the terms of, constitute a default under or create a right of termination in favor of any party thereto (other than Borrower) under, such lease, license, permit or agreement (other than to the extent that any such term (a) has been waived or (b) would be rendered ineffective pursuant to Sections 9-406, 9-407, 9-408, 9-409 of the UCC or other applicable provisions of the UCC of any relevant jurisdiction or any other applicable law or principles of equity); provided, however, that (x) the Collateral shall include (and such security interest shall attach) immediately upon the ineffectiveness, lapse, termination or waiver of such provision and (y) the Collateral shall include all proceeds arising under or from any such lease, license, permit or contract.302497102 v2SCHEDULE 6.13LIQUIDITY COVENANT[***]302497102 v2 EX-31.1 3 cdxs_20240630xex311.htm EX-31.1 DocumentExhibit 31.1CERTIFICATIONI, Stephen Dilly, certify that:1.I have reviewed this Quarterly Report on Form 10-Q of Codexis, Inc.;2.Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;3.Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;4.The registrantâ€™s other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have: (a)Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;(b)Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;(c)Evaluated the effectiveness of the registrantâ€™s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and(d)Disclosed in this report any change in the registrantâ€™s internal control over financial reporting that occurred during the registrantâ€™s most recent fiscal quarter (the registrantâ€™s fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrantâ€™s internal control over financial reporting; and5.The registrantâ€™s other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrantâ€™s auditors and the audit committee of the registrantâ€™s board of directors (or persons performing the equivalent functions):(a)All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrantâ€™s ability to record, process, summarize and report financial information; and(b)Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrantâ€™s internal control over financial reporting.Date: AugustÂ 8, 2024/s/ Stephen DillyStephen DillyPresident and Chief Executive Officer(principal executive officer) EX-31.2 4 cdxs_20240630xex312.htm EX-31.2 DocumentExhibit 31.2CERTIFICATIONI, Sriram Ryali, certify that:1.I have reviewed this Quarterly Report on Form 10-Q of Codexis, Inc.;2.Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;3.Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;4.The registrantâ€™s other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:(a)Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;(b)Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;(c)Evaluated the effectiveness of the registrantâ€™s disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and(d)Disclosed in this report any change in the registrantâ€™s internal control over financial reporting that occurred during the registrantâ€™s most recent fiscal quarter (the registrantâ€™s fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrantâ€™s internal control over financial reporting; and5.The registrantâ€™s other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrantâ€™s auditors and the audit committee of the registrantâ€™s board of directors (or persons performing the equivalent functions):(a)All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrantâ€™s ability to record, process, summarize and report financial information; and(b)Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrantâ€™s internal control over financial reporting.Date: AugustÂ 8, 2024/s/ Sriram RyaliSriram RyaliChief Financial Officer(principal financial and accounting officer) EX-32.1 5 cdxs_20240630xex321.htm EX-32.1 DocumentExhibit 32.1CERTIFICATION PURSUANT TO18 U.S.C. SECTION 1350,AS ADOPTED PURSUANT TOSECTION 906 OF THE SARBANES-OXLEY ACT OF 2002In connection with the Quarterly Report of Codexis, Inc. (the â€œCompanyâ€) on Form 10-Q for the fiscal quarter ended JuneÂ 30, 2024, as filed with the Securities and Exchange Commission (the â€œReportâ€), Stephen Dilly, President and Chief Executive Officer of the Company and Sriram Ryali, Chief Financial Officer of the Company, respectively, do each hereby certify, pursuant to 18 U.S.C. SectionÂ 1350, as adopted pursuant to SectionÂ 906 of the Sarbanes-Oxley Act of 2002, that:â€¢The Report fully complies with the requirements of SectionÂ 13(a) or 15(d) of the Securities Exchange Act of 1934; andâ€¢The information in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.Date: AugustÂ 8, 2024/s/ Stephen DillyStephen DillyPresident and Chief Executive Officer(principal executive officer)/s/ Sriram RyaliSriram RyaliChief Financial Officer(principal financial and accounting officer) EX-101.SCH 6 cdxs-20240630.xsd XBRL TAXONOMY EXTENSION SCHEMA DOCUMENT 0000001 - Document - Cover Page link:presentationLink link:calculationLink link:definitionLink 9952151 - Statement - Condensed Consolidated Balance Sheets (Unaudited) link:presentationLink link:calculationLink link:definitionLink 9952152 - Statement - Condensed Consolidated Balance Sheets (Unaudited) (Parenthetical) link:presentationLink link:calculationLink link:definitionLink 9952153 - Statement - Condensed Consolidated Statements of Operations (Unaudited) link:presentationLink link:calculationLink link:definitionLink 9952154 - Statement - Condensed Consolidated Statements of Comprehensive Loss (Unaudited) link:presentationLink link:calculationLink link:definitionLink 9952155 - Statement - Condensed Consolidated Statements of Stockholders' Equity (Unaudited) link:presentationLink link:calculationLink link:definitionLink 9952156 - Statement - Condensed Consolidated Statements of Stockholders' Equity (Unaudited) (Parenthetical) link:presentationLink link:calculationLink link:definitionLink 9952157 - Statement - Condensed Consolidated Statements of Cash Flows (Unaudited) link:presentationLink link:calculationLink link:definitionLink 9952158 - Disclosure - Description of Business link:presentationLink link:calculationLink link:definitionLink 9952159 - Disclosure - Basis of Presentation and Summary of Significant Accounting Policies link:presentationLink link:calculationLink link:definitionLink 9952160 - Disclosure - Revenue Recognition link:presentationLink link:calculationLink link:definitionLink 9952161 - Disclosure - Net Loss per Share link:presentationLink link:calculationLink link:definitionLink 9952162 - Disclosure - Investments in Non-Marketable Securities link:presentationLink link:calculationLink link:definitionLink 9952163 - Disclosure - Fair Value Measurements link:presentationLink link:calculationLink link:definitionLink 9952164 - Disclosure - Balance Sheets Details link:presentationLink link:calculationLink link:definitionLink 9952165 - Disclosure - Stock-based Compensation link:presentationLink link:calculationLink link:definitionLink 9952166 - Disclosure - Capital Stock link:presentationLink link:calculationLink link:definitionLink 9952167 - Disclosure - Commitments and Contingencies link:presentationLink link:calculationLink link:definitionLink 9952168 - Disclosure - Debt link:presentationLink link:calculationLink link:definitionLink 9952169 - Disclosure - Segment, Geographical and Other Revenue Information link:presentationLink link:calculationLink link:definitionLink 9954471 - Disclosure - Basis of Presentation and Summary of Significant Accounting Policies (Policies) link:presentationLink link:calculationLink link:definitionLink 9954472 - Disclosure - Revenue Recognition (Tables) link:presentationLink link:calculationLink link:definitionLink 9954473 - Disclosure - Net Loss per Share (Tables) link:presentationLink link:calculationLink link:definitionLink 9954474 - Disclosure - Investments in Non-Marketable Securities (Tables) link:presentationLink link:calculationLink link:definitionLink 9954475 - Disclosure - Fair Value Measurements (Tables) link:presentationLink link:calculationLink link:definitionLink 9954476 - Disclosure - Balance Sheets Details (Tables) link:presentationLink link:calculationLink link:definitionLink 9954477 - Disclosure - Stock-based Compensation (Tables) link:presentationLink link:calculationLink link:definitionLink 9954478 - Disclosure - Commitments and Contingencies (Tables) link:presentationLink link:calculationLink link:definitionLink 9954479 - Disclosure - Debt (Tables) link:presentationLink link:calculationLink link:definitionLink 9954480 - Disclosure - Segment, Geographical and Other Revenue Information (Tables) link:presentationLink link:calculationLink link:definitionLink 9954481 - Disclosure - Description of Business (Details) link:presentationLink link:calculationLink link:definitionLink 9954482 - Disclosure - Revenue Recognition - Disaggregation of Revenue (Details) link:presentationLink link:calculationLink link:definitionLink 9954483 - Disclosure - Revenue Recognition - Contracts with Customer (Details) link:presentationLink link:calculationLink link:definitionLink 9954484 - Disclosure - Revenue Recognition - Narrative (Details) link:presentationLink link:calculationLink link:definitionLink 9954485 - Disclosure - Revenue Recognition - Revenue Recognized During Period (Details) link:presentationLink link:calculationLink link:definitionLink 9954486 - Disclosure - Revenue Recognition - Performance Obligation (Details) link:presentationLink link:calculationLink link:definitionLink 9954486 - Disclosure - Revenue Recognition - Performance Obligation (Details) link:presentationLink link:calculationLink link:definitionLink 9954487 - Disclosure - Net Loss per Share - Shares Not Included in Computation of Diluted Net Loss Per Share (Details) link:presentationLink link:calculationLink link:definitionLink 9954488 - Disclosure - Investments in Non-Marketable Securities - Narrative (Details) link:presentationLink link:calculationLink link:definitionLink 9954489 - Disclosure - Investments in Non-Marketable Securities - Carrying Value and Fair Value of Securities (Details) link:presentationLink link:calculationLink link:definitionLink 9954490 - Disclosure - Fair Value Measurements - Summary of Financial Instruments Measured at Fair Value on a Recurring Basis (Details) link:presentationLink link:calculationLink link:definitionLink 9954491 - Disclosure - Fair Value Measurements - Narrative (Details) link:presentationLink link:calculationLink link:definitionLink 9954492 - Disclosure - Balance Sheets Details - Inventories (Details) link:presentationLink link:calculationLink link:definitionLink 9954493 - Disclosure - Balance Sheets Details - Narrative (Details) link:presentationLink link:calculationLink link:definitionLink 9954494 - Disclosure - Balance Sheets Details - Property and Equipment, net (Details) link:presentationLink link:calculationLink link:definitionLink 9954495 - Disclosure - Balance Sheets Details - Other Accrued Liabilities (Details) link:presentationLink link:calculationLink link:definitionLink 9954496 - Disclosure - Stock-based Compensation - Narrative (Details) link:presentationLink link:calculationLink link:definitionLink 9954497 - Disclosure - Stock-based Compensation - Stock-based Compensation Expense (Details) link:presentationLink link:calculationLink link:definitionLink 9954498 - Disclosure - Capital Stock (Details) link:presentationLink link:calculationLink link:definitionLink 9954499 - Disclosure - Commitments and Contingencies - Lease Cost (Details) link:presentationLink

link:calculationLink link:definitionLink 9954500 - Disclosure - Commitments and Contingencies - Other Lease Information (Details) link:presentationLink link:calculationLink link:definitionLink 9954501 - Disclosure - Commitments and Contingencies - Cash Paid for Lease Obligations (Details) link:presentationLink link:calculationLink link:definitionLink 9954502 - Disclosure - Commitments and Contingencies - Maturity Analysis of Operating Lease (Details) link:presentationLink link:calculationLink link:definitionLink 9954502 - Disclosure - Commitments and Contingencies - Maturity Analysis of Operating Lease (Details) link:presentationLink link:calculationLink link:definitionLink 9954503 - Disclosure - Commitments and Contingencies - Other Commitments (Details) link:presentationLink link:calculationLink link:definitionLink 9954504 - Disclosure - Commitments and Contingencies - Narrative (Details) link:presentationLink link:calculationLink link:definitionLink 9954505 - Disclosure - Debt - Narrative (Details) link:presentationLink link:calculationLink link:definitionLink 9954506 - Disclosure - Debt - Schedule of Long-Term Debt Instruments (Details) link:presentationLink link:calculationLink link:definitionLink 9954507 - Disclosure - Debt - Schedule of Maturities of Long-Term Debt (Details) link:presentationLink link:calculationLink link:definitionLink 9954508 - Disclosure - Segment, Geographical and Other Revenue Information - Narrative (Details) link:presentationLink link:calculationLink link:definitionLink 9954509 - Disclosure - Segment, Geographical and Other Revenue Information - Concentration Risk (Details) link:presentationLink link:calculationLink link:definitionLink 9954510 - Disclosure - Segment, Geographical and Other Revenue Information - Long-Lived Assets by Geographic Area (Details) link:presentationLink link:calculationLink link:definitionLink EX-101.CAL 7 cdxs-20240630_cal.xml XBRL TAXONOMY EXTENSION CALCULATION LINKBASE DOCUMENT EX-101.DEF 8 cdxs-20240630_def.xml XBRL TAXONOMY EXTENSION DEFINITION LINKBASE DOCUMENT EX-101.LAB 9 cdxs-20240630_lab.xml XBRL TAXONOMY EXTENSION LABEL LINKBASE DOCUMENT Operating Leases Lessee, Operating Lease, Liability, to be Paid, Fiscal Year Maturity [Abstract] Adjustments to reconcile net loss to net cash used in operating activities: Adjustments to Reconcile Net Income (Loss) to Cash Provided by (Used in) Operating Activities [Abstract] Geographic Areas, Long-Lived Assets [Abstract] Geographic Areas, Long-Lived Assets [Abstract] Statistical Measurement [Domain] Statistical Measurement [Domain] Work-in-process Inventory, Work in Process, Gross Unrealized Losses Debt Securities, Available-for-Sale, Accumulated Gross Unrealized Loss, before Tax Customer E Customer E [Member] Customer E Lease Cost Lease, Cost [Table Text Block] Cover page. Cover [Abstract] Net decrease in cash, cash equivalents and restricted cash Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents, Period Increase (Decrease), Including Exchange Rate Effect Operating Lease Maturity Lessee, Operating Lease, Liability, to be Paid, Maturity [Table Text Block] Assets Held For Sale Assets Held For Sale [Policy Text Block] Assets Held For Sale Trading Symbol Trading Symbol Segment Reporting Information [Line Items] Segment Reporting Information [Line Items] All Trading Arrangements All Trading Arrangements [Member] Compensation Actually Paid vs. Net Income Compensation Actually Paid vs. Net Income [Text Block] Non-NEOs Non-NEOs [Member] Award vesting period Share-Based Compensation Arrangement by Share-Based Payment Award, Award Vesting Period Rule 10b5-1 Arrangement Adopted Rule 10b5-1 Arrangement Adopted [Flag] Awards Close in Time to MNPI Disclosures Awards Close in Time to MNPI Disclosures [Table] Office equipment and furniture Office Equipment and Furniture [Member] Office Equipment and Furniture [Member] Other Commitments [Line Items] Other Commitments [Line Items] Pay vs Performance Disclosure [Line Items] Peer Group Total Shareholder Return Amount Peer Group Total Shareholder Return Amount Short-term Investments Short-Term Investments [Member] Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis] Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis] Costs and operating expenses: Operating Costs and Expenses [Abstract] 2025 and Thereafter Other Commitment, To Be Paid, Year One And Thereafter Other Commitment, To Be Paid, Year One And Thereafter Total revenues Contract with Customer, Liability, Change in Timeframe, Performance Obligation Satisfied, Revenue Recognized Transfer from property and equipment to assets held for sale Transfer From Property And Equipment To Assets Held-For-Sale Transfer From Property And Equipment To Assets Held-For-Sale Investment in non-marketable equity securities Investments and Other Noncurrent Assets Non-Rule 10b5-1 Arrangement Adopted Non-Rule 10b5-1 Arrangement Adopted [Flag] Proceeds from exercises of stock options Proceeds from Stock Options Exercised Award Timing Disclosures [Line Items] Other Performance Measure, Amount Other Performance Measure, Amount Common stock, shares, outstanding (in shares) Common Stock, Shares, Outstanding Operating lease, cost Operating Lease, Cost Sale of stock, maximum selling period Sale Of Stock, Maximum Selling Period Sale Of Stock, Maximum Selling Period Class of Warrant or Right [Axis] Class of Warrant or Right [Axis] Long-term lease obligations - Operating leases Operating Lease, Liability, Noncurrent Segment Information Segment Reporting, Policy [Policy Text Block] Geographic Distribution [Axis] Geographic Distribution [Axis] Revenue from Contract with Customer [Abstract] Revenue from Contract with Customer [Abstract] Deferred revenue Contract with Customer, Liability, Current United States UNITED STATES Schedule of Inventory Components Inventory, Net [Abstract] Other non-current assets Other Assets, Noncurrent Entity Tax Identification Number Entity Tax Identification Number Schedule of Long-Term Debt Instruments Schedule of Long-Term Debt Instruments [Table Text Block] Antidilutive Securities, Name [Domain] Antidilutive Securities, Name [Domain] Money market funds Money Market Funds [Member] RSAs and RSUs RSUs and restricted stock awards (â€œRSAsâ€) RSAs and RSUs [Member] RSAs and RSUs [Member] Selling, general and administrative Selling, general and administrative Selling, General and Administrative Expenses [Member] Changes in the period: Change in Contract with Customer, Liability [Abstract] Receivable Type [Axis] Receivable Type [Axis] Net cash used in operating activities Net Cash Provided by (Used in) Operating Activities Net proceeds received Sale of Stock, Consideration Received on Transaction Operating activities: Net Cash Provided by (Used in) Operating Activities [Abstract] U.S. treasury securities US Treasury Securities [Member] Secured Debt Secured Debt [Member] Prepaid expense, current Prepaid Expense, Current Equity Components [Axis] Equity Components [Axis] Share-based Payment Arrangement, Expensed and Capitalized, Amount [Line Items] Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Line Items] Other assets, current Other Assets, Current Award Timing Method Award Timing Method [Text Block] Trading Arrangements, by Individual Trading Arrangements, by Individual [Table] Fair Value Debt Securities, Available-for-Sale Entity Common Stock, Shares Outstanding Entity Common Stock, Shares Outstanding Revenue Revenue, Product and Service Benchmark [Member] Issuance of common stock upon release of stock awards (in shares) Stock Issued During Period, Shares, Other Insider Trading Policies and Procedures [Line Items] Use of Estimates Use of Estimates, Policy [Policy Text Block] Total costs and operating expenses Costs and Expenses Contract assets Contract with Customer, Asset, before Allowance for Credit Loss, Current Receivable [Domain] Receivable [Domain] Adjustment to Compensation, Amount Adjustment to Compensation Amount Compensation Amount Outstanding Recovery Compensation Amount Customer L Customer L [Member] Customer L Aggregate Change in Present Value of Accumulated Benefit for All Pension Plans Reported in Summary Compensation Table Aggregate Change in Present Value of Accumulated Benefit for All Pension Plans Reported in Summary Compensation Table [Member] Entity Small Business Entity Small Business Investment, Variable Interest Rate, Type [Extensible Enumeration] Investment, Variable Interest Rate, Type [Extensible Enumeration] Company Selected Measure Amount Company Selected Measure Amount Geographical [Axis] Geographical [Axis] Payment of debt issuance costs Payments of Debt Issuance Costs Tabular List, Table Tabular List [Table Text Block] Loss contingency accrual Loss Contingency, Accrual, Current Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Share-Based Compensation Arrangement by Share-Based Payment Award [Line Items] EMEA EMEA [Member] Debt instrument, exit fee, percent Debt Instrument, Exit Fee, Percent Debt Instrument, Exit Fee, Percent Aggregate Grant Date Fair Value of Equity Award Amounts Reported in Summary Compensation Table Aggregate Grant Date Fair Value of Equity Award Amounts Reported in Summary Compensation Table [Member] Class of warrant or right, number of securities called by warrants or rights (in shares) Class of Warrant or Right, Number of Securities Called by Warrants or Rights Issuance of common stock under employee stock purchase plan (in shares) Stock Issued During Period, Shares, Employee Stock Purchase Plans Other accrued liabilities Total other accrued liabilities Accrued Liabilities, Current Total shares excluded as anti-dilutive (shares) Antidilutive Securities Excluded from Computation of Earnings Per Share, Amount Tranche One Share-Based Payment Arrangement, Tranche One [Member] Performance Obligation, Expected Timing of Satisfaction Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Table Text Block] Impairment of Long-Lived Assets Impairment or Disposal of Long-Lived Assets, Policy [Policy Text Block] Innovatus Loan - First Tranche Innovatus Loan - First Tranche [Member] Innovatus Loan - First Tranche Facility maintenance agreement Facility Maintenance Agreement [Member] Facility Maintenance Agreement Cash, cash equivalents and restricted cash at the beginning of the period Cash, cash equivalents and restricted cash at the end of the period Total cash, cash equivalents and restricted cash Cash, Cash Equivalents, Restricted Cash, and Restricted Cash Equivalents Share-based payment arrangement, nonvested award, cost not yet recognized, amount Share-Based Payment Arrangement, Nonvested Award, Cost Not yet Recognized, Amount Current assets: Assets, Current [Abstract] Goodwill Goodwill Taxes paid related to net share settlement of equity awards Payment, Tax Withholding, Share-Based Payment Arrangement Other comprehensive loss: Other Comprehensive Income (Loss), Net of Tax [Abstract] Forgone Recovery due to Disqualification of Tax Benefits, Amount Forgone Recovery due to Disqualification of Tax Benefits, Amount Performance obligations satisfied from new activities in the period - contract revenue Contract with Customer, Liability, New Activities, Performance Obligation Satisfied, Revenue Recognition Contract with Customer, Liability, New Activities, Performance Obligation Satisfied, Revenue Recognition PSC Piper Sandler & Co [Member] Piper Sandler & Co Product and Service [Domain] Product and Service [Domain] Stock Options Stock options Share-Based Payment Arrangement, Option [Member] Depreciation Depreciation Fair Value Disclosures [Abstract] Fair Value Disclosures [Abstract] 2025 Lessee, Operating Lease, Liability, to be Paid, Year One Schedule of Antidilutive Securities Excluded from Computation of Earnings Per Share [Table] Antidilutive Security, Excluded EPS Calculation [Table] Comprehensive loss Comprehensive Income (Loss), Net of Tax, Attributable to Parent Preferred stock, shares outstanding (in shares) Preferred Stock, Shares Outstanding Early repayment fee, percentage Early Repayment Fee, Percentage Early Repayment Fee, Percentage Warrant Warrant [Member] Security Exchange Name Security Exchange Name Basis spread on variable rate Debt Instrument, Basis Spread on Variable Rate Award Type [Axis] Award Type [Axis] Changes in the estimated transaction price allocated to performance obligations satisfied in prior periods Contract with Customer, Liability, Cumulative Catch-up Adjustment to Revenue, Change in Estimate of Transaction Price Corporate debt Corporate Debt Securities [Member] Net proceeds from stock options exercised Net Proceeds From Stock Options Exercised Net Proceeds From Stock Options Exercised Schedule of Long-Lived Assets by Geographical Area Schedule of Disclosure on Geographic Areas, Long-Lived Assets in Individual Foreign Countries by Country [Table Text Block] Weighted average exercise price of stock options exercised (in dollars per share) Share-Based Compensation Arrangements by Share-Based Payment Award, Options, Exercises in Period, Weighted Average Exercise Price Equity securities earned from research and development activities Other Noncash Income Property and equipment, net Property and equipment, net Property, Plant and Equipment, Net Total liabilities Liabilities Long-lived assets Long-Lived Assets Convertible Debt Convertible Debt [Member] Common stock, par value (in dollars per share) Common Stock, Par or Stated Value Per Share Forgone Recovery, Explanation of Impracticability Forgone Recovery, Explanation of Impracticability [Text Block] Total Other Commitment Research and development Research and Development Expense Schedule of Share-based Compensation Arrangements by Share-based Payment Award [Table] Schedule of Share-Based Compensation Arrangements by Share-Based Payment Award [Table] Expiration Date Trading Arrangement Expiration Date Investing activities: Net Cash Provided by (Used in) Investing Activities [Abstract] Current portion of lease obligations - Operating leases Operating Lease, Liability, Current Total Shareholder Return Amount Total Shareholder Return Amount Common stock, shares, issued (in shares) Common Stock, Shares, Issued Credit losses Debt Securities, Available-for-Sale, Allowance for Credit Loss, Writeoff Entity [Domain] Entity [Domain] Equity Awards Adjustments, Footnote Equity Awards Adjustments, Footnote [Text Block] Concentration risk, percentage Concentration Risk, Percentage Total financial assets Financing Receivable, before Allowance for Credit Loss Computer equipment and software Computer Equipment [Member] seqWell seqWell [Member] seqWell Customer J Customer J [Member] Customer J Schedule of Supply and Service Commitments Supply Commitment [Table Text Block] Insider Trading Policies and Procedures Adopted Insider Trading Policies and Procedures Adopted [Flag] Less: accumulated depreciation and amortization Accumulated Depreciation, Depletion and Amortization, Property, Plant, and Equipment Cash Cash Property and equipment Property, Plant and Equipment, Gross Issuance of common stock upon exercise of stock options (in shares) Stock options exercised (shares) Share-Based Compensation Arrangement by Share-Based Payment Award, Options, Exercises in Period Debt Instrument [Line Items] Debt Instrument [Line Items] Less: allowances Financing Receivable, Allowance for Credit Loss, Current Named Executive Officers, Footnote Named Executive Officers, Footnote [Text Block] Research and development Research and development Research and Development Expense [Member] Common stock, shares authorized (in shares) Common Stock, Shares Authorized Investments in Non-Marketable Securities Investments in Debt and Equity Instruments, Cash and Cash Equivalents, Unrealized and Realized Gains (Losses) [Text Block] Basis of Presentation and Principles of Consolidation Basis of Accounting, Policy [Policy Text Block] Debt instrument, number of tranches Debt Instrument, Number Of Tranches Debt Instrument, Number Of Tranches Unrealized loss on available-for-sale short-term investments, net of tax OCI, Debt Securities, Available-for-Sale, Gain (Loss), after Adjustment and Tax Weighted average common stock shares used in computing net loss per share, diluted (in shares) Weighted Average Number of Shares Outstanding, Diluted MNPI Disclosure Timed for Compensation Value MNPI Disclosure Timed for Compensation Value [Flag] Long-Term Debt, Type [Axis] Long-Term Debt, Type [Axis] Total stockholders' equity Beginning balance Ending balance Equity, Attributable to Parent Sale of stock, period Sale Of Stock, Period Sale Of Stock, Period Balance Sheet Location [Axis] Statement of Financial Position Location, Balance [Axis] Concentration Risk Type [Domain] Concentration Risk Type [Domain] Selling, general and administrative Selling, General and Administrative Expense Cost of product revenue Cost of Sales [Member] Product revenue Product [Member] Sale of Stock [Domain] Sale of Stock [Domain] Number of shares authorized (in shares) Share-Based Compensation Arrangement by Share-Based Payment Award, Number of Shares Authorized Antidilutive Securities Excluded from Computation of Earnings Per Share [Line Items] Antidilutive Securities Excluded from Computation of Earnings Per Share [Line Items] Asset impairment and other charges Asset Impairment Charges Total long-term debt Long-Term Debt Pension Adjustments Prior Service Cost Pension Adjustments Prior Service Cost [Member] Document Fiscal Period Focus Document Fiscal Period Focus 2028 Long-Term Debt, Maturity, Year Four All Executive Categories All Executive Categories [Member] Balance Sheet Location [Domain] Statement of Financial Position Location, Balance [Domain] Accounts receivable Accounts Receivable, before Allowance for Credit Loss, Current Changed Peer Group, Footnote Changed Peer Group, Footnote [Text Block] Assets Assets [Abstract] Other comprehensive loss Other Comprehensive Income (Loss), Net of Tax Balance Sheets Details Balance Sheets Details [Text Block] Balance sheets details. Document Type Document Type Debt instrument, interest rate, effective percentage Debt Instrument, Interest Rate, Effective Percentage Commercial paper Commercial Paper [Member] Pension Benefits Adjustments, Footnote Pension Benefits Adjustments, Footnote [Text Block] Total Shareholder Return Vs Peer Group Total Shareholder Return Vs Peer Group [Text Block] Add: payment in-kind interest Debt Instrument, Payment In-kind Interest Debt Instrument, Payment In-kind Interest Amortized Cost Debt Securities, Available-for-Sale, Amortized Cost Contract with Customer Contract with Customer, Contract Asset, Contract Liability, and Receivable [Table Text Block] Maximum Maximum [Member] Contract liabilities: deferred revenue Contract with Customer, Liability Equity Valuation Assumption Difference, Footnote Equity Valuation Assumption Difference, Footnote [Text Block] Antidilutive Securities [Axis] Antidilutive Securities [Axis] Accounts payable Accounts Payable, Current Accounting Policies [Abstract] Accounting Policies [Abstract] Revenues: Revenues [Abstract] Debt instrument, unamortized discount Less: unamortized debt issuance fee Debt Instrument, Unamortized Discount Leasehold improvements Leasehold Improvements [Member] Carrying Value of Non-marketable Equity Securities Equity Securities without Readily Determinable Fair Value [Table Text Block] Current Fiscal Year End Date Current Fiscal Year End Date Less: imputed interest Lessee, Operating Lease, Liability, Undiscounted Excess Amount Short-term investments Short-Term Investments Statistical Measurement [Axis] Statistical Measurement [Axis] PEO Name PEO Name Non-Rule 10b5-1 Arrangement Terminated Non-Rule 10b5-1 Arrangement Terminated [Flag] Loss before income taxes Income (Loss) from Continuing Operations before Income Taxes, Noncontrolling Interest Share-based compensation arrangement by share-based payment award, shares issued in period (in shares) Share-Based Compensation Arrangement by Share-Based Payment Award, Shares Issued in Period Non-PEO NEO Average Total Compensation Amount Non-PEO NEO Average Total Compensation Amount Vesting [Axis] Vesting [Axis] Award Type [Domain] Award Type [Domain] Name Outstanding Recovery, Individual Name Disaggregation of Revenue [Line Items] Disaggregation of Revenue [Line Items] Variable lease cost Variable Lease, Cost Shares Not Included in Computation of Diluted Net Loss Per Share Schedule of Antidilutive Securities Excluded from Computation of Earnings Per Share [Table Text Block] Compensation Actually Paid vs. Company Selected Measure Compensation Actually Paid vs. Company Selected Measure [Text Block] Non-PEO NEO Non-PEO NEO [Member] Thereafter Lessee, Operating Lease, Liability, to be Paid, After Year Four Lessee, Operating Lease, Liability, to be Paid, After Year Four Performance based options (â€œPBOsâ€) Performance Based Options (PBOs) [Member] Performance Based Options (PBOs) [Member] Additional Paid-in Capital Additional Paid-in Capital [Member] Award Timing Predetermined Award Timing Predetermined [Flag] Class of Stock [Line Items] Class of Stock [Line Items] Accounting Pronouncements New Accounting Pronouncements, Policy [Policy Text Block] Unbilled receivables Unbilled Receivables, Current Net loss per share, diluted (in dollars per share) Earnings Per Share, Diluted Reduction in the carrying amount of right-of-use assets Operating Lease, Right-of-Use Asset, Periodic Reduction Name Measure Name Entity Interactive Data Current Entity Interactive Data Current Deferred revenue Increase (Decrease) in Contract

with Customer, Liability Restatement does not require Recovery Restatement Does Not Require Recovery [Text Block] Cash, cash equivalents, and short-term investments Total Cash, Cash Equivalents, and Short-Term Investments Award vesting rights Share-Based Compensation Arrangement by Share-Based Payment Award, Award Vesting Rights, Percentage Income taxes paid Income Taxes Paid Preferred stock, shares issued (in shares) Preferred Stock, Shares Issued Customer [Axis] Customer [Axis] Innovatus Loan Warrants Innovatus Loan Warrants [Member] Innovatus Loan Warrants Disaggregation of Revenue [Table] Disaggregation of Revenue [Table] Statement of Financial Position [Abstract] Statement of Financial Position [Abstract] Stock-based compensation Share-based payment arrangement, noncash expense Share-Based Payment Arrangement, Noncash Expense Indemnification Agreement Indemnification Agreement [Member] Tranche Two Share-Based Payment Arrangement, Tranche Two [Member] Proceeds from sale of property and equipment Proceeds from Sale of Property, Plant, and Equipment Provision for income taxes Income Tax Expense (Benefit) Stated interest rate Debt Instrument, Interest Rate, Stated Percentage Issuance of common stock warrants in connection with debt issuance Adjustments to Additional Paid in Capital, Warrant Issued Supplemental disclosure of cash flow information: Supplemental Cash Flow Information [Abstract] Total revenues Revenue from Contract with Customer, Excluding Assessed Tax Innovatus Loan - Second Tranche Innovatus Loan - Second Tranche [Member] Innovatus Loan - Second Tranche Other long-term liabilities Increase (Decrease) in Other Noncurrent Liabilities Statement of Comprehensive Income [Abstract] Statement of Comprehensive Income [Abstract] Concentration Risk Benchmark [Domain] Concentration Risk Benchmark [Domain] Security Owned Not Readily Marketable [Axis] Security Owned Not Readily Marketable [Axis] Net cash used in investing activities Net Cash Provided by (Used in) Investing Activities Loss from operations Operating Income (Loss) Debt instrument, interest, paid in kind Debt Instrument, Interest, Paid In Kind Debt Instrument, Interest, Paid In Kind Number of reportable segments Number of Reportable Segments Total liabilities and stockholders' equity Liabilities and Equity Other non-cash items Other Operating Activities, Cash Flow Statement Rule 10b5-1 Arrangement Terminated Rule 10b5-1 Arrangement Terminated [Flag] All Adjustments to Compensation All Adjustments to Compensation [Member] Fair Value Hierarchy and NAV [Axis] Fair Value Hierarchy and NAV [Axis] Accrued compensation Employee-related Liabilities, Current Prepaid expenses and other assets Increase (Decrease) in Prepaid Expense and Other Assets Additional paid-in capital Additional Paid in Capital Restructuring charges Restructuring Charges Commitments and Contingencies Disclosure [Abstract] Commitments and Contingencies Disclosure [Abstract] Legal Entity [Axis] Legal Entity [Axis] Interest income Investment Income, Interest Schedule of Stock-based Compensation Expense by Security Types Share-Based Payment Arrangement, Restricted Stock and Restricted Stock Unit, Activity [Table Text Block] Schedule of Maturities of Long-Term Debt Schedule of Maturities of Long-Term Debt [Table Text Block] Underlying Security Market Price Change Underlying Security Market Price Change, Percent Individual: Individual [Axis] Sale of stock, consideration received on transaction, gross Sale of Stock, Consideration Received on Transaction, Gross Sale of Stock, Consideration Received on Transaction, Gross Taxes paid related to net share settlement of equity awards Share-Based Payment Arrangement, Decrease for Tax Withholding Obligation Accumulated Other Comprehensive Loss AOCI Attributable to Parent [Member] Cantor Sales Agreement Cantor Sales Agreement [Member] Cantor Sales Agreement Expected timing of satisfaction, period Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Period Restricted cash, current Restricted Cash Inventories Total Inventories Inventory, Net Long-Term Debt, Type [Domain] Long-Term Debt, Type [Domain] Product and Service [Axis] Product and Service [Axis] Entity Address, State or Province Entity Address, State or Province Property, Plant and Equipment [Line Items] Property, Plant and Equipment [Line Items] Statement [Line Items] Statement [Line Items] Erroneous Compensation Analysis Erroneous Compensation Analysis [Text Block] Schedule of Property and Equipment, Net Property, Plant and Equipment [Table Text Block] Compensation Actually Paid vs. Total Shareholder Return Compensation Actually Paid vs. Total Shareholder Return [Text Block] Financial Instruments [Domain] Financial Instruments [Domain] Vesting [Domain] Vesting [Domain] Liabilities and Stockholders' Equity Liabilities and Equity [Abstract] Accrued compensation and other accrued liabilities Increase (Decrease) in Employee Related Liabilities and Other Accrued Liabilities Increase (Decrease) in Employee Related Liabilities and Other Accrued Liabilities Minimum Minimum [Member] Restatement Determination Date Restatement Determination Date Unamortized debt issuance expense Less: unamortized debt issuance costs Unamortized Debt Issuance Expense Adoption Date Trading Arrangement Adoption Date Pay vs Performance Disclosure Pay vs Performance Disclosure [Table] Deferred revenue, net of current portion Contract with Customer, Liability, Noncurrent Schedule of Property, Plant and Equipment [Table] Property, Plant and Equipment [Table] Concentration Risk [Table] Concentration Risk [Table] Right-of-use assets - Operating leases, net Operating Lease, Right-of-Use Asset Erroneously Awarded Compensation Recovery Erroneously Awarded Compensation Recovery [Table] Change in Fair Value as of Vesting Date of Prior Year Equity Awards Vested in Covered Year Change in Fair Value as of Vesting Date of Prior Year Equity Awards Vested in Covered Year [Member] Class of warrant or right, fair value Class Of Warrant Or Right, Fair Value Class Of Warrant Or Right, Fair Value Total principal payments Long-Term Debt, Gross Exercise Price Award Exercise Price Unrealized or realized gains or losses Non Marketable Debt Securities Without Readily Determinable Fair Value Annual Amount Non Marketable Debt Securities Without Readily Determinable Fair Value Annual Amount Other Other Accrued Liabilities Net Loss per Share Earnings Per Share [Text Block] Arrangement Duration Trading Arrangement Duration Issuance of common stock under employee stock purchase plan Stock Issued During Period, Value, Employee Stock Purchase Plan Issuance of common stock upon exercise of stock options Stock Issued During Period, Value, Stock Options Exercised Stockholders' equity: Equity, Attributable to Parent [Abstract] Marketable Securities [Table] Marketable Securities [Table] Peer Group Issuers, Footnote Peer Group Issuers, Footnote [Text Block] Material Terms of Trading Arrangement Material Terms of Trading Arrangement [Text Block] Debt instrument, term Debt Instrument, Term All Individuals All Individuals [Member] Fixed contribution rate Share-based Compensation Arrangement by Share-based Payment Award, Maximum Employee Subscription Amount Share-based Compensation Arrangement by Share-based Payment Award, Maximum Employee Subscription Amount PEO PEO [Member] Name Trading Arrangement, Individual Name Interest and other expense, net Other Nonoperating Income (Expense) Statement of Stockholders' Equity [Abstract] Statement of Stockholders' Equity [Abstract] Property, Plant and Equipment, Type [Axis] Long-Lived Tangible Asset [Axis] Sale of stock, securities registered aggregate amount Sale Of Stock, Securities Registered Aggregate Amount Sale Of Stock, Securities Registered Aggregate Amount Unrealized Gains Debt Securities, Available-for-Sale, Accumulated Gross Unrealized Gain, before Tax Compensation not yet recognized, share-based awards other than options Share-Based Payment Arrangement, Nonvested Award, Excluding Option, Cost Not yet Recognized, Amount 2024 Long-Term Debt, Maturity, Remainder of Fiscal Year Schedule of Customers that Contributed 10% or More of Total Accounts Receivable Schedules of Concentration of Risk, by Risk Factor [Table Text Block] Awards Close in Time to MNPI Disclosures, Table Awards Close in Time to MNPI Disclosures [Table Text Block] Other Commitments [Domain] Other Commitments [Domain] Sale of stock, commissions, percentage of gross sales price Sale Of Stock, Commissions, Percentage Of Gross Sales Price Sale Of Stock, Commissions, Percentage Of Gross Sales Price Sale of stock, value of shares for issuance Sale Of Stock, Value Of Shares For Issuance Sale Of Stock, Value Of Shares For Issuance Share-based Payment Arrangement, Expensed and Capitalized, Amount [Table] Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Table] Common stock, capital shares reserved for future issuance (in shares) Common Stock, Capital Shares Reserved for Future Issuance Prior Year End Fair Value of Equity Awards Granted in Any Prior Year that Fail to Meet Applicable Vesting Conditions During Covered Year Prior Year End Fair Value of Equity Awards Granted in Any Prior Year that Fail to Meet Applicable Vesting Conditions During Covered Year [Member] Beginning balance (in shares) Ending balance (in shares) Shares, Outstanding Aggregate Erroneous Compensation Amount Aggregate Erroneous Compensation Amount Local Phone Number Local Phone Number Consecutive offering period Share-Based Compensation Arrangement By Share-based Payment Award, Consecutive Offering Period Share-Based Compensation Arrangement By Share-based Payment Award, Consecutive Offering Period Aggregate Erroneous Compensation Not Yet Determined Aggregate Erroneous Compensation Not Yet Determined [Text Block] Americas Americas [Member] Changes in operating assets and liabilities: Increase (Decrease) in Operating Capital [Abstract] Less: uncapitalized payment in-kind interest Debt Instrument, Uncapitalized Payment In-kind Interest Debt Instrument, Uncapitalized Payment In-kind Interest PEO Total Compensation Amount PEO Total Compensation Amount Purchase price of common stock Share-Based Compensation Arrangement by Share-Based Payment Award, Purchase Price of Common Stock, Percent Property, Plant and Equipment, Type [Domain] Long-Lived Tangible Asset [Domain] Schedule of Other Accrued Liabilities Schedule of Accrued Liabilities [Table Text Block] Customer I Customer I [Member] Customer I Income Statement Location [Axis] Statement of Income Location, Balance [Axis] Costs incurred in connection with offering Payments of Stock Issuance Costs Long-Term Unbilled Receivables Long-Term Unbilled Receivables [Member] Long-Term Unbilled Receivables Commitments and Contingencies Commitments and Contingencies Disclosure [Text Block] Accrued professional and outside service fees Accrued Professional Fees Debt Disclosure [Abstract] Sale of stock, commissions and reimbursements, percentage of gross sales price Sale Of Stock, Commissions And Reimbursements, Percentage Of Gross Sales Price Sale Of Stock, Commissions And Reimbursements, Percentage Of Gross Sales Price Common Stock Common Stock [Member] Measure: Measure [Axis] Preferred stock, shares authorized (in shares) Preferred Stock, Shares Authorized Forgone Recovery due to Expense of Enforcement, Amount Forgone Recovery due to Expense of Enforcement, Amount Issuance of common stock in connection with an equity sales agreement, net of issuance costs (shares) Stock Issued During Period, Shares, New Issues Entity Emerging Growth Entity Emerging Growth Company Segment Reporting [Abstract] Segment Reporting [Abstract] Taxes paid related to net share settlement of equity awards (in shares) Share-Based Payment Arrangement, Shares Withheld for Tax Withholding Obligation Entity Central Index Key Entity Central Index Key 2029 Long-Term Debt, Maturity, Year Five Other investments in non-marketable equity securities Other Security Investments [Member] Schedule of Inventory Components Schedule of Inventory, Current [Table Text Block] Non-GAAP Measure Description Non-GAAP Measure Description [Text Block] Non-PEO NEO Average Compensation Actually Paid Amount Non-PEO NEO Average Compensation Actually Paid Amount Capital Stock Equity [Text Block] Award Timing, How MNPI Considered Award Timing, How MNPI Considered [Text Block] Equity Component [Domain] Equity Component [Domain] Preferred stock, par value (in dollars per share) Preferred Stock, Par or Stated Value Per Share Financial Instrument [Axis] Financial Instrument [Axis] Segment, Geographical and Other Revenue Information Segment Reporting Disclosure [Text Block] Additional 402(v) Disclosure Additional 402(v) Disclosure [Text Block] Stock-based compensation APIC, Share-Based Payment Arrangement, Increase for Cost Recognition Entity Shell Company Entity Shell Company Entity Incorporation, State or Country Code Entity Incorporation, State or Country Code Title Trading Arrangement, Individual Title Statement [Table] Statement [Table] Balance Sheets Details [Abstract] Balance Sheets Details [Abstract] -- None. No documentation exists for this element. -- Interest expense, debt Interest Expense, Debt Basis of Presentation and Summary of Significant Accounting Policies Significant Accounting Policies [Text Block] City Area Code City Area Code Current liabilities: Liabilities, Current [Abstract] Geographic Distribution [Domain] Geographic Distribution [Domain] Interest paid Interest Paid, Excluding Capitalized Interest, Operating Activities Insider Trading Policies and Procedures Not Adopted Insider Trading Policies and Procedures Not Adopted [Text Block] Customer K Customer K [Member] Customer K Investment in short-term investments Payments to Acquire Short-Term Investments Concentration Risk Benchmark [Axis] Concentration Risk Benchmark [Axis] Fair Value, Inputs, Level 1 Fair Value, Inputs, Level 1 [Member] Total current assets Assets, Current Statement of Cash Flows [Abstract] Statement of Cash Flows [Abstract] Supplemental non-cash investing and financing activities: Noncash Investing and Financing Items [Abstract] Research and development revenue Research and Development Revenue [Member] Research and Development Revenue [Member] MAI Molecular Assemblies, Inc. [Member] Molecular Assemblies, Inc. 2027 Long-Term Debt, Maturity, Year Three Other-than-temporary impairment losses Debt Securities, Available-for-Sale, Unrealized Loss Schedule of Long-Term Debt Instruments [Table] Schedule of Long-Term Debt Instruments [Table] Long-term debt Long-Term Debt, Excluding Current Maturities Performance-contingent restricted stock units (â€œPSUsâ€) Performance-contingent Restricted Stock Units (PSU) [Member] Performance-contingent Restricted Stock Units (PSU) Other Commitments [Axis] Other Commitments [Axis] Total non-marketable equity securities Equity Securities without Readily Determinable Fair Value, Amount 2028 Lessee, Operating Lease, Liability, to be Paid, Year Four Earnings Per Share [Abstract] Earnings Per Share [Abstract] Sale of stock, commission fee, percent Sale Of Stock, Commission Fee, Percent Sale Of Stock, Commission Fee, Percent Equity [Abstract] Equity [Abstract] Accumulated deficit Retained Earnings (Accumulated Deficit) Short-Term Unbilled Receivables Short-Term Unbilled Receivables [Member] Short-Term Unbilled Receivables 2024 (Remaining 6 Months) Other Commitment, to be Paid, Remainder of Fiscal Year Inventories Increase (Decrease) in Inventories 2026 Long-Term Debt, Maturity, Year Two Organization, Consolidation and Presentation of Financial Statements [Abstract] Organization, Consolidation and Presentation of Financial Statements [Abstract] Aggregate Available Trading Arrangement, Securities Aggregate Available Amount Equity Awards Adjustments Equity Awards Adjustments [Member] Weighted-average discount rate Operating Lease, Weighted Average Discount Rate, Percent Lease obligations Operating Lease, Liability Net cash provided by financing activities Net Cash Provided by (Used in) Financing Activities Underlying Securities Award Underlying Securities Amount Amendment Flag Amendment Flag Loss Contingency Nature [Axis] Loss Contingency Nature [Axis] Total Cash, Cash Equivalents And Short Term Investments, Amortized Cost Cash, Cash Equivalents And Short Term Investments, Amortized Cost Entity Registrant Name Entity Registrant Name Adjustment to Non-PEO NEO Compensation Footnote Adjustment to Non-PEO NEO Compensation Footnote [Text Block] Stock Appreciation Rights (SARs) Stock Appreciation Rights (SARs) [Member] Depreciation and amortization Depreciation, Depletion and Amortization Fair Value as of Grant Date Award Grant Date Fair Value Customer Concentration Risk Customer Concentration Risk [Member] Fair Value, Inputs, Level 2 Fair Value, Inputs, Level 2 [Member] Debt Disclosure Debt Disclosure [Text Block] Fair Value, Measurements, Fair Value Hierarchy [Domain] Fair Value Hierarchy and NAV [Domain] Customer H Customer H [Member] Customer H Geographical [Domain] Geographical [Domain] Recovery of Erroneously Awarded Compensation Disclosure [Line Items] Face value of debt Debt Instrument, Face Amount Disaggregation of Revenue Disaggregation of Revenue [Table Text Block] Issuance of common stock in connection with an equity sales agreement, net of issuance costs Stock Issued During Period, Value, New Issues Unbilled receivables Unbilled Contracts Receivable Entity Address, Postal Zip Code Entity Address, Postal Zip Code Schedule of Stock-based Compensation Expense Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Table Text Block] Restatement Determination Date: Restatement Determination Date [Axis] Title of 12(b) Security Title of 12(b) Security Concentration Risk Type [Axis] Concentration Risk Type [Axis] Common stock, $0.0001 par value per share; 200,000 shares authorized; 70,914 shares and 69,905 shares issued and outstanding as of JuneÂ 30, 2024 and DecemberÂ 31, 2023, respectively Common Stock, Value, Issued Customer B Customer B [Member] Customer B [Member] Unbilled receivables, not billable Unbilled Receivables, Not Billable Share-based Payment Arrangement [Abstract] Share-Based Payment Arrangement [Abstract] Amounts included in contract liabilities at the beginning of the period: Change in Contract with Customer, Asset and Liability [Abstract] Cash and cash equivalents Cash and Cash Equivalents, at Carrying Value Security Owned Not Readily Marketable, Name [Domain] Security Owned Not Readily Marketable, Name [Domain] Customer G Customer G [Member] Customer G Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years That are Outstanding and Unvested Year-over-Year Change in Fair Value of Equity Awards Granted in Prior Years That are Outstanding and Unvested [Member] Raw materials Inventory, Raw Materials, Gross Financing activities: Net Cash Provided by (Used in) Financing Activities [Abstract] Year-end Fair Value of Equity Awards Granted in Covered Year that are Outstanding and Unvested Year-end Fair Value of Equity Awards Granted in Covered Year that are Outstanding and Unvested [Member] Concentration Risk [Line Items] Concentration Risk [Line Items] Preferred stock, $0.0001 par value per share; 5,000 shares authorized, none issued and outstanding Preferred Stock, Value, Issued Finished goods Inventory, Finished Goods, Gross Shares issuable under the Equity Incentive Plan and ESPP Share-Based Payment Arrangement [Member] ESPP Employee Stock [Member] Net loss per share, basic (in dollars per share) Earnings Per Share, Basic Accounts payable Increase (Decrease) in Accounts Payable Proceeds from issuance of common stock in connection with equity sales agreement Proceeds from Issuance of Common Stock Proceeds from issuance of stock under employee stock purchase plan Proceeds from Stock Plans Operating cash flows from operating leases Operating Lease, Payments Cash and Cash Equivalents Cash and Cash Equivalents [Member] Adjustment To PEO Compensation, Footnote Adjustment To PEO Compensation, Footnote [Text Block] Award Timing MNPI Disclosure Award Timing MNPI Disclosure [Text Block] Financial assets: Financing Receivable, before Allowance for Credit Loss [Abstract] Expiration period Share-Based Compensation Arrangement by Share-Based Payment Award, Expiration Period Other Liabilities Disclosure [Abstract] Capital expenditures incurred but not yet paid Capital Expenditures Incurred but Not yet Paid Aggregate Pension Adjustments Service Cost Aggregate Pension Adjustments Service Cost [Member] Customer A Customer A [Member] Customer A [Member] Financial assets Increase (Decrease) in Finance Receivables Compensation Actually Paid vs. Other Measure Compensation Actually Paid vs. Other Measure [Text Block] Schedule of Stock by Class [Table] Stock, Class of Stock [Table] Total current liabilities Liabilities, Current Vesting Date Fair Value of Equity Awards Granted and Vested in Covered Year Vesting Date Fair Value of Equity Awards Granted and Vested in Covered Year [Member] Compensation not yet recognized, stock options Share-Based Payment Arrangement, Nonvested Award, Option, Cost Not yet Recognized, Amount Total assets Assets Cost of product revenue Cost of Goods and Services Sold Add: amortized exit fee Debt Instrument, Amortized Exit Fee Debt Instrument, Amortized Exit Fee Summary of Financial Instruments Measured at Fair Value on a Recurring Basis Fair Value, Assets Measured on Recurring Basis [Table Text Block] Cash reconciliation: Cash and Cash Equivalents [Abstract] Purchase of property and equipment Payments to Acquire Property, Plant, and Equipment Other long-term liabilities Other Liabilities, Noncurrent Debt instrument,

interest payable, term Debt Instrument, Interest Payable, Term Debt Instrument, Interest Payable, Term Forgone Recovery due to Violation of Home Country Law, Amount Forgone Recovery due to Violation of Home Country Law, Amount Fair Value Measurements Fair Value Measurement and Measurement Inputs, Recurring and Nonrecurring [Text Block] Commitments and Contingencies (Note 10) Commitments and Contingencies Termination Date Trading Arrangement Termination Date Amortization of discount on short-term investments Amortization Of Discount On Short-term Investments Amortization Of Discount On Short-term Investments Class of Warrant or Right [Domain] Class of Warrant or Right [Domain] Description of Business Nature of Operations [Text Block] Class of warrant or right, exercise price of warrants or rights (in dollars per share) Class of Warrant or Right, Exercise Price of Warrants or Rights Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] 2026 Lessee, Operating Lease, Liability, to be Paid, Year Two 2025 Long-Term Debt, Maturity, Year One Stock-based Compensation Share-Based Payment Arrangement [Text Block] Entity Address, City or Town Entity Address, City or Town Proceeds from long-term debt Proceeds from Issuance of Long-Term Debt Debt Instrument [Axis] Debt Instrument [Axis] Proceeds from maturity of short-term investments Proceeds from Maturities, Prepayments and Calls of Short-Term Investments Stock-based compensation expense Share-Based Payment Arrangement, Expense Net loss Net loss Net loss Net Income (Loss) Attributable to Parent Trading Arrangement: Trading Arrangement [Axis] Investments, Debt and Equity Securities [Abstract] Other Commitments [Table] Other Commitments [Table] Pay vs Performance Disclosure, Table Pay vs Performance [Table Text Block] Equity Awards Adjustments, Excluding Value Reported in Compensation Table Equity Awards Adjustments, Excluding Value Reported in the Compensation Table [Member] Customer F Customer F [Member] Customer F Dividends or Other Earnings Paid on Equity Awards not Otherwise Reflected in Total Compensation for Covered Year Dividends or Other Earnings Paid on Equity Awards not Otherwise Reflected in Total Compensation for Covered Year [Member] Entity File Number Entity File Number Revenue Recognition Revenue from Contract with Customer [Text Block] Document Fiscal Year Focus Document Fiscal Year Focus Income Statement [Abstract] Income Statement [Abstract] Entity Address, Address Line One Entity Address, Address Line One Debt Instrument, Name [Domain] Debt Instrument, Name [Domain] Name Forgone Recovery, Individual Name 2024 (remaining 6 months) Lessee, Operating Lease, Liability, to be Paid, Remainder of Fiscal Year Weighted-average remaining lease term (in years) Operating Lease, Weighted Average Remaining Lease Term Document Period End Date Document Period End Date Sale of Stock [Axis] Sale of Stock [Axis] Loss Contingency, Nature [Domain] Loss Contingency, Nature [Domain] Short-term Investments Investment, Policy [Policy Text Block] Award Timing MNPI Considered Award Timing MNPI Considered [Flag] Innovatus Loan Innovatus Loan [Member] Innovatus Loan Total minimum lease payments Lessee, Operating Lease, Liability, to be Paid Insider Trading Arrangements [Line Items] Outstanding Aggregate Erroneous Compensation Amount Outstanding Aggregate Erroneous Compensation Amount 2027 Lessee, Operating Lease, Liability, to be Paid, Year Three PEO Actually Paid Compensation Amount PEO Actually Paid Compensation Amount Performance obligations satisfied Contract with Customer, Liability, Revenue Recognized Adjustment to Compensation: Adjustment to Compensation [Axis] Prepaid expenses and other current assets Prepaid Expense and Other Assets, Current Accounts Receivable Accounts Receivable [Member] Restricted cash Restricted Cash and Cash Equivalents, Noncurrent Total financial assets, net Accounts and Financing Receivable, after Allowance for Credit Loss, Current Document Transition Report Document Transition Report Customer C Customer C [Member] Customer C Asset, held-for-sale, not part of disposal group Asset, Held-for-Sale, Not Part of Disposal Group Document Quarterly Report Document Quarterly Report Accrued purchases Purchase Obligation Laboratory equipment Laboratory Equipment [Member] Laboratory Equipment [Member] Investment in non-marketable securities Payments to Acquire Other Investments Customer [Domain] Customer [Domain] Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Table] Fair Value, Recurring and Nonrecurring [Table] Accumulated other comprehensive loss Accumulated Other Comprehensive Income (Loss), Net of Tax Entity Current Reporting Status Entity Current Reporting Status Accumulated Deficit Retained Earnings [Member] Restricted cash, current and non-current Restricted Cash and Cash Equivalents Non-cash interest expense Amortization of Debt Issuance Costs Pension Adjustments Service Cost Pension Adjustments Service Cost [Member] Weighted average common stock shares used in computing net loss per share, basic (in shares) Weighted Average Number of Shares Outstanding, Basic Stock Price or TSR Estimation Method Stock Price or TSR Estimation Method [Text Block] Marketable Securities [Line Items] Marketable Securities [Line Items] Schedule of Segment Reporting Information, by Segment [Table] Schedule of Revenues from External Customers and Long-Lived Assets [Table] RSUs Restricted Stock Units (RSUs) [Member] Increase (Decrease) in Stockholders' Equity [Roll Forward] Increase (Decrease) in Stockholders' Equity [Roll Forward] APAC APAC [Member] Regions of Australia, New Zealand, Southeast Asia and China Executive Category: Executive Category [Axis] Customer D Customer D [Member] Customer D Name Awards Close in Time to MNPI Disclosures, Individual Name Construction in progress Construction in Progress [Member] Entity Filer Category Entity Filer Category Impairment charges related to contract assets Contract with Customer, Asset, Credit Loss Expense (Reversal) Performance obligation Revenue, Remaining Performance Obligation, Amount Income Statement Location [Domain] Statement of Income Location, Balance [Domain] Company Selected Measure Name Company Selected Measure Name Costs incurred in connection with equity sales agreements Costs Incurred In Connection With Equity Sales Agreements Costs Incurred In Connection With Equity Sales Agreements Prime Rate [Member] EX-101.PRE 10 cdxs-20240630_pre.xml XBRL TAXONOMY EXTENSION PRESENTATION LINKBASE DOCUMENT XML 12 R1.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Cover Page - shares 6 Months Ended Jun. 30, 2024 Aug. 05, 2024 Cover [Abstract] Â Â Document Type 10-Q Â Document Quarterly Report true Â Document Period End Date Jun. 30, 2024 Â Document Transition Report false Â Entity File Number 001-34705 Â Entity Registrant Name Codexis,Â Inc. Â Entity Incorporation, State or Country Code DE Â Entity Tax Identification Number 71-0872999 Â Entity Address, Address Line One 200 Penobscot Drive Â Entity Address, City or Town Redwood City Â Entity Address, State or Province CA Â Entity Address, Postal Zip Code 94063 Â City Area Code 650 Â Local Phone Number 421-8100 Â Title of 12(b) Security Common Stock, par value $0.0001 per share Â Trading Symbol CDXS Â Security Exchange Name NASDAQ Â Entity Current Reporting Status Yes Â Entity Interactive Data Current Yes Â Entity Filer Category Accelerated Filer Â Entity Small Business true Â Entity Emerging Growth false Â Entity Shell Company false Â Entity Common Stock, Shares Outstanding Â 70,927,377 Entity Central Index Key 0001200375 Â Amendment Flag false Â Document Fiscal Year Focus 2024 Â Document Fiscal Period Focus Q2 Â Current Fiscal Year End Date --12-31 Â X - DefinitionBoolean flag that is true when the XBRL content amends previously-filed or accepted submission. + ReferencesNo definition available. + Details Name: dei_AmendmentFlag Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionArea code of city + ReferencesNo definition available. + Details Name: dei_CityAreaCode Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionCover page. + ReferencesNo definition available. + Details Name: dei_CoverAbstract Namespace Prefix: dei_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionEnd date of current fiscal year in the format --MM-DD. + ReferencesNo definition available. + Details Name: dei_CurrentFiscalYearEndDate Namespace Prefix: dei_ Data Type: xbrli:gMonthDayItemType Balance Type: na Period Type: duration X - DefinitionFiscal period values are FY, Q1, Q2, and Q3. 1st, 2nd and 3rd quarter 10-Q or 10-QT statements have value Q1, Q2, and Q3 respectively, with 10-K, 10-KT or other fiscal year statements having FY. + ReferencesNo definition available. + Details Name: dei_DocumentFiscalPeriodFocus Namespace Prefix: dei_ Data Type: dei:fiscalPeriodItemType Balance Type: na Period Type: duration X - DefinitionThis is focus fiscal year of the document report in YYYY format. For a 2006 annual report, which may also provide financial information from prior periods, fiscal 2006 should be given as the fiscal year focus. Example: 2006. + ReferencesNo definition available. + Details Name: dei_DocumentFiscalYearFocus Namespace Prefix: dei_ Data Type: xbrli:gYearItemType Balance Type: na Period Type: duration X - DefinitionFor the EDGAR submission types of Form 8-K: the date of the report, the date of the earliest event reported; for the EDGAR submission types of Form N-1A: the filing date; for all other submission types: the end of the reporting or transition period. The format of the date is YYYY-MM-DD. + ReferencesNo definition available. + Details Name: dei_DocumentPeriodEndDate Namespace Prefix: dei_ Data Type: xbrli:dateItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true only for a form used as an quarterly report. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Form 10-Q -Number 240 -Section 308 -Subsection a + Details Name: dei_DocumentQuarterlyReport Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true only for a form used as a transition report. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Forms 10-K, 10-Q, 20-F -Number 240 -Section 13 -Subsection a-1 + Details Name: dei_DocumentTransitionReport Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionThe type of document being provided (such as 10-K, 10-Q, 485BPOS, etc). The document type is limited to the same value as the supporting SEC submission type, or the word 'Other'. + ReferencesNo definition available. + Details Name: dei_DocumentType Namespace Prefix: dei_ Data Type: dei:submissionTypeItemType Balance Type: na Period Type: duration X - DefinitionAddress Line 1 such as Attn, Building Name, Street Name + ReferencesNo definition available. + Details Name: dei_EntityAddressAddressLine1 Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionName of the City or Town + ReferencesNo definition available. + Details Name: dei_EntityAddressCityOrTown Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionCode for the postal or zip code + ReferencesNo definition available. + Details Name: dei_EntityAddressPostalZipCode Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionName of the state or province. + ReferencesNo definition available. + Details Name: dei_EntityAddressStateOrProvince Namespace Prefix: dei_ Data Type: dei:stateOrProvinceItemType Balance Type: na Period Type: duration X - DefinitionA unique 10-digit SEC-issued value to identify entities that have filed disclosures with the SEC. It is commonly abbreviated as CIK. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityCentralIndexKey Namespace Prefix: dei_ Data Type: dei:centralIndexKeyItemType Balance Type: na Period Type: duration X - DefinitionIndicate number of shares or other units outstanding of each of registrant's classes of capital or common stock or other ownership interests, if and as stated on cover of related periodic report. Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument. + ReferencesNo definition available. + Details Name: dei_EntityCommonStockSharesOutstanding Namespace Prefix: dei_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionIndicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure. + ReferencesNo definition available. + Details Name: dei_EntityCurrentReportingStatus Namespace Prefix: dei_ Data Type: dei:yesNoItemType Balance Type: na Period Type: duration X - DefinitionIndicate if registrant meets the emerging growth company criteria. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityEmergingGrowthCompany Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionCommission file number. The field allows up to 17 characters. The prefix may contain 1-3 digits, the sequence number may contain 1-8 digits, the optional suffix may contain 1-4 characters, and the fields are separated with a hyphen. + ReferencesNo definition available. + Details Name: dei_EntityFileNumber Namespace Prefix: dei_ Data Type: dei:fileNumberItemType Balance Type: na Period Type: duration X - DefinitionIndicate whether the registrant is one of the following: Large Accelerated Filer, Accelerated Filer, Non-accelerated Filer. Definitions of these categories are stated in Rule 12b-2 of the Exchange Act. This information should be based on the registrant's current or most recent filing containing the related disclosure. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityFilerCategory Namespace Prefix: dei_ Data Type: dei:filerCategoryItemType Balance Type: na Period Type: duration X - DefinitionTwo-character EDGAR code representing the state or country of incorporation. + ReferencesNo definition available. + Details Name: dei_EntityIncorporationStateCountryCode Namespace Prefix: dei_ Data Type: dei:edgarStateCountryItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true when the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-T -Number 232 -Section 405 + Details Name: dei_EntityInteractiveDataCurrent Namespace Prefix: dei_ Data Type: dei:yesNoItemType Balance Type: na Period Type: duration X - DefinitionThe exact name of the entity filing the report as specified in its charter, which is required by forms filed with the SEC. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityRegistrantName Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionBoolean flag that is true when the registrant is a shell company as defined in Rule 12b-2 of the Exchange Act. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityShellCompany Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionIndicates that the company is a Smaller Reporting Company (SRC). + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntitySmallBusiness Namespace Prefix: dei_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - DefinitionThe Tax Identification Number (TIN), also known as an Employer Identification Number (EIN), is a unique 9-digit value assigned by the IRS. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b-2 + Details Name: dei_EntityTaxIdentificationNumber Namespace Prefix: dei_ Data Type: dei:employerIdItemType Balance Type: na Period Type: duration X - DefinitionLocal phone number for entity. + ReferencesNo definition available. + Details Name: dei_LocalPhoneNumber Namespace Prefix: dei_ Data Type: xbrli:normalizedStringItemType Balance Type: na Period Type: duration X - DefinitionTitle of a 12(b) registered security. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection b + Details Name: dei_Security12bTitle Namespace Prefix: dei_ Data Type: dei:securityTitleItemType Balance Type: na Period Type: duration X - DefinitionName of the Exchange on which a security is registered. + ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Exchange Act -Number 240 -Section 12 -Subsection d1-1 + Details Name: dei_SecurityExchangeName Namespace Prefix: dei_ Data Type: dei:edgarExchangeCodeItemType Balance Type: na Period Type: duration X - DefinitionTrading symbol of an instrument as listed on an exchange. + ReferencesNo definition available. + Details Name: dei_TradingSymbol Namespace Prefix: dei_ Data Type: dei:tradingSymbolItemType Balance Type: na Period Type: duration XML 13 R2.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Condensed Consolidated Balance Sheets (Unaudited) - USD ($) $ in Thousands Jun. 30, 2024 Dec. 31, 2023 Current assets: Â Â Cash and cash equivalents $ 18,595 $ 65,116 Restricted cash, current 517 519 Short-term investments 54,604 0 Financial assets: Â Â Accounts receivable 4,860 10,036 Contract assets 3,213 815 Unbilled receivables 4,380 9,142 Total financial assets 12,453 19,993 Less: allowances (65) (65) Total financial assets, net 12,388 19,928 Inventories 2,232 2,685 Prepaid expenses and other current assets 3,062 5,218 Total current assets 91,398 93,466 Restricted cash 1,062 1,062 Investment in non-marketable equity securities 9,700 9,700 Right-of-use assets - Operating leases, net 11,576 13,137 Property and equipment, net 13,966 15,487 Goodwill 2,463 2,463 Other non-current assets 1,841 1,246 Total assets 132,006 136,561 Current liabilities: Â Â Accounts payable 3,685 5,947 Accrued compensation 7,658 11,246 Other accrued liabilities 5,417 4,735 Current portion of lease obligations - Operating leases 3,979 3,781 Deferred revenue 9,800 10,121 Total current liabilities 30,539 35,830 Deferred revenue, net of current portion 200 640 Long-term lease obligations - Operating leases 10,191 12,243 Long-term debt 28,365 0 Other long-term liabilities 1,264 1,233 Total liabilities 70,559 49,946 Commitments and Contingencies (Note 10) Stockholders' equity: Â Â Preferred stock, $0.0001 par value per share; 5,000 shares authorized, none issued and outstanding 0 0 Common stock, $0.0001 par value per share; 200,000 shares authorized; 70,914 shares and 69,905 shares issued and outstanding as of JuneÂ 30, 2024 and DecemberÂ 31, 2023, respectively 7 7 Additional paid-in capital 593,253 584,138 Accumulated other comprehensive loss (23) 0 Accumulated deficit (531,790) (497,530) Total stockholders' equity 61,447 86,615 Total liabilities and stockholders' equity $ 132,006 $ 136,561 X - DefinitionAmount, after allowance for credit loss, of accounts and financing receivables, classified as current. Includes, but is not limited to, notes and loan receivable. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481990/310-10-45-2 + Details Name: us-gaap_AccountsNotesAndLoansReceivableNetCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received that are used in an entity's business. Used to reflect the current portion of the liabilities (due within one year or within the

normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(19)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10 + Details Name: us-gaap_AccountsPayableCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, before allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481990/310-10-45-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(3)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1 + Details Name: us-gaap_AccountsReceivableGrossCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of obligations incurred and payable, pertaining to costs that are statutory in nature, are incurred on contractual obligations, or accumulate over time and for which invoices have not yet been received or will not be rendered. Examples include taxes, interest, rent and utilities. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AccruedLiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after tax, of accumulated increase (decrease) in equity from transaction and other event and circumstance from nonowner source. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14AReference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 14 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-14 + Details Name: us-gaap_AccumulatedOtherComprehensiveIncomeLossNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of excess of issue price over par or stated value of stock and from other transaction involving stock or stockholder. Includes, but is not limited to, additional paid-in capital (APIC) for common and preferred stock. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AdditionalPaidInCapital Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of allowance for credit loss on financing receivable, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479344/326-20-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481962/310-10-50-4 + Details Name: us-gaap_AllowanceForNotesAndLoansReceivableCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of asset recognized for present right to economic benefit. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 12: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 13: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(12)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 18: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 19: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 30: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_Assets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of asset recognized for present right to economic benefit, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI 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Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_AssetsCurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap_CashAndCashEquivalentsAtCarryingValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionRepresents the caption

on the face of the balance sheet to indicate that the entity has entered into (1) purchase or supply arrangements that will require expending a portion of its resources to meet the terms thereof, and (2) is exposed to potential losses or, less frequently, gains, arising from (a) possible claims against a company's resources due to future performance under contract terms, and (b) possible losses or likely gains from uncertainties that will ultimately be resolved when one or more future events that are deemed likely to occur do occur or fail to occur. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap_CommitmentsAndContingencies Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAggregate par or stated value of issued nonredeemable common stock (or common stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1 + Details Name: us-gaap_CommonStockValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, before allowance for credit loss, of right to consideration in exchange for good or service transferred to customer when right is conditioned on something other than passage of time, classified as current. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-1Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-3 + Details Name: us-gaap_ContractWithCustomerAssetGrossCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of obligation to transfer good or service to customer for which consideration has been received or is receivable, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-8Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-2 + Details Name: us-gaap_ContractWithCustomerLiabilityCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of obligation to transfer good or service to customer for which consideration has been received or is receivable, classified as noncurrent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-8Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-2 + Details Name: us-gaap_ContractWithCustomerLiabilityNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionTotal of the carrying values as of the balance sheet date of obligations incurred through that date and payable for obligations related to services received from employees, such as accrued salaries and bonuses, payroll taxes and fringe benefits. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_EmployeeRelatedLiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_FinancingReceivableBeforeAllowanceForCreditLossAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount, after accumulated impairment loss, of asset representing future economic benefit arising from other asset acquired in business combination or from joint venture formation or both, that is not individually identified and separately recognized. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 350 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482548/350-20-55-24Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/disclosureRef 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Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(10)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_Goodwill Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name 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http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 15: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(14)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 18: 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https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 27: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 28: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 29: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30 + Details Name: us-gaap_Liabilities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of liabilities and equity items, including the portion of equity attributable to noncontrolling interests, if any. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(32)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_LiabilitiesAndStockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionTotal obligations incurred as part of normal operations that are expected to be paid during the following twelve months or within one business cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481231/810-10-45-25Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 810 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481203/810-10-50-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic

10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-5Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 20: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7Reference 21: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481404/852-10-50-7 + Details Name: us-gaap_LiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_LiabilitiesCurrentAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt classified as noncurrent. Excludes lease obligation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_LongTermDebtNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmortized cost, before allowance for credit loss, of financing receivable. Excludes financing receivable covered under loss sharing agreement and net investment in lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481990/310-10-45-13Reference 2: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7A -Publisher FASB -URI https://asc.fasb.org/1943274/2147481962/310-10-50-7AReference 3: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 29 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481962/310-10-50-29Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Name Regulation S-K (SK) -Number 229 -Section 1405 -Paragraph a -Subparagraph (1) -Publisher SECReference 5: http://www.xbrl.org/2003/role/disclosureRef -Name Regulation S-K (SK) -Number 229 -Section 1405 -Paragraph a -Subparagraph (2) -Publisher SECReference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Name Regulation S-K (SK) -Number 229 -Section 1404 -Paragraph a -Publisher SECReference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 80 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479294/326-20-55-80Reference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 79 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479294/326-20-55-79Reference 9: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479344/326-20-45-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(3)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479319/326-20-50-14Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479319/326-20-50-5 + Details Name: us-gaap_NotesReceivableGross Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiabilityCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as noncurrent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiabilityNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's right to use underlying asset under operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseRightOfUseAsset Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of noncurrent assets classified as other. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_OtherAssetsNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of liabilities classified as other, due after one year or the normal operating cycle, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_OtherLiabilitiesNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAggregate par or stated value of issued nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable preferred shares, par value and other disclosure concepts are in another section within stockholders' equity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1 + Details Name: us-gaap_PreferredStockValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of asset related to consideration paid in advance for costs that provide economic benefits in future periods, and amount of other assets that are expected to be realized or consumed within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_PrepaidExpenseAndOtherAssetsCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-7AReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 360 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478451/942-360-50-1 + Details Name: us-gaap_PropertyPlantAndEquipmentNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of cash restricted as to withdrawal or usage. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(1)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_RestrictedCash Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of cash and cash equivalents restricted as to withdrawal or usage, classified as noncurrent. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 45 -Paragraph 5 -SubTopic 210 -Topic 954 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477220/954-210-45-5 + Details Name: us-gaap_RestrictedCashAndCashEquivalentsNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of accumulated undistributed earnings (deficit). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480016/944-40-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480990/946-20-50-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(23)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(17)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_RetainedEarningsAccumulatedDeficit Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of investments including trading securities, available-for-sale securities, held-to-maturity securities, and short-term investments classified as other and current. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_ShortTermInvestments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -

Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2 + Details Name: us-gaap_StockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_StockholdersEquityAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount received for services rendered and products shipped, but not yet billed, for non-contractual agreements due within one year or the normal operating cycle, if longer. + ReferencesNo definition available. + Details Name: us-gaap_UnbilledReceivablesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 14 R3.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Condensed Consolidated Balance Sheets (Unaudited) (Parenthetical) - $ / shares Jun. 30, 2024 Dec. 31, 2023 Statement of Financial Position [Abstract] Â Â Preferred stock, par value (in dollars per share) $ 0.0001 $ 0.0001 Preferred stock, shares authorized (in shares) 5,000,000 5,000,000 Preferred stock, shares issued (in shares) 0 0 Preferred stock, shares outstanding (in shares) 0 0 Common stock, par value (in dollars per share) $ 0.0001 $ 0.0001 Common stock, shares authorized (in shares) 200,000,000 200,000,000 Common stock, shares, issued (in shares) 70,914,000 69,905,000 Common stock, shares, outstanding (in shares) 70,914,000 69,905,000 X - DefinitionFace amount or stated value per share of common stock. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe maximum number of common shares permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap_CommonStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionTotal number of common shares of an entity that have been sold or granted to shareholders (includes common shares that were issued, repurchased and remain in the treasury). These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockSharesIssued Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of shares of common stock outstanding. Common stock represent the ownership interest in a corporation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3 + Details Name: us-gaap_CommonStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionFace amount or stated value per share of preferred stock nonredeemable or redeemable solely at the option of the issuer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13 + Details Name: us-gaap_PreferredStockParOrStatedValuePerShare Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionThe maximum number of nonredeemable preferred shares (or preferred stock redeemable solely at the option of the issuer) permitted to be issued by an entity's charter and bylaws. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1 + Details Name: us-gaap_PreferredStockSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of shares issued for nonredeemable preferred shares and preferred shares redeemable solely at option of issuer. Includes, but is not limited to, preferred shares issued, repurchased, and held as treasury shares. Excludes preferred shares classified as debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13 + Details Name: us-gaap_PreferredStockSharesIssued Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionAggregate share number for all nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer) held by stockholders. Does not include preferred shares that have been repurchased. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(16)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3 + Details Name: us-gaap_PreferredStockSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_StatementOfFinancialPositionAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 15 R4.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Condensed Consolidated Statements of Operations (Unaudited) - USD ($) shares in Thousands, $ in Thousands 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Revenues: Â Â Â Â Total revenues $ 7,979 $ 21,323 $ 25,052 $ 34,305 Costs and operating expenses: Â Â Â Â Cost of product revenue 3,462 3,178 8,317 7,698 Research and development 11,413 17,334 22,659 33,988 Selling, general and administrative 15,671 13,365 28,531 28,765 Restructuring charges 0 72 0 145 Asset impairment and other charges 165 0 165 0 Total costs and operating expenses 30,711 33,949 59,672 70,596 Loss from operations (22,732) (12,626) (34,620) (36,291) Interest income 972 1,121 1,881 2,209 Interest and other expense, net (985) (9) (1,500) (33) Loss before income taxes (22,745) (11,514) (34,239) (34,115) Provision for income taxes 10 9 21 25 Net loss $ (22,755) $ (11,523) $ (34,260) $ (34,140) Net loss per share, basic (in dollars per share) $ (0.32) $ (0.17) $ (0.49) $ (0.51) Net loss per share, diluted (in dollars per share) $ (0.32) $ (0.17) $ (0.49) $ (0.51) Weighted average common stock shares used in computing net loss per share, basic (in shares) 70,376 67,573 70,115 66,756 Weighted average common stock shares used in computing net loss per share, diluted (in shares) 70,376 67,573 70,115 66,756 Product revenue Â Â Â Â Revenues: Â Â Â Â Total revenues $ 6,259 $ 11,048 $ 15,810 $ 19,412 Research and development revenue Â Â Â Â Revenues: Â Â Â Â Total revenues $ 1,720 $ 10,275 $ 9,242 $ 14,893 X - DefinitionAmount of write-down of assets recognized in the income statement. Includes, but is not limited to, losses from tangible assets, intangible assets and goodwill. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 360 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-4 + Details Name: us-gaap_AssetImpairmentCharges Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe aggregate costs related to goods produced and sold and services rendered by an entity during the reporting period. This excludes costs incurred during the reporting period related to financial services rendered and other revenue generating activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(2)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1 + Details Name: us-gaap_CostOfGoodsAndServicesSold Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionTotal costs of sales and operating expenses for the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_CostsAndExpenses Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe amount of net income (loss) for the period per each share of common stock or unit outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-52Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-15Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (e)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI 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http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7 + Details Name: us-gaap_EarningsPerShareBasic Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionThe amount of net income (loss) for the period available to each share of common stock or common unit

outstanding during the reporting period and to each share or unit that would have been outstanding assuming the issuance of common shares or units for all dilutive potential common shares or units outstanding during the reporting period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 52 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482635/260-10-55-52Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 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https://asc.fasb.org/1943274/2147482689/260-10-45-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(27)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-7 + Details Name: us-gaap_EarningsPerShareDiluted Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionAmount of income (loss) from continuing operations, including income (loss) from equity method investments, before deduction of income tax expense (benefit), and income (loss) attributable to noncontrolling interest. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(11)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 9: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 235 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-05(b)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477314/942-235-S99-1Reference 11: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(10)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 12: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(15)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_IncomeLossFromContinuingOperationsBeforeIncomeTaxesExtraordinaryItemsNoncontrollingInterest Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of current income tax expense (benefit) and deferred income tax expense (benefit) pertaining to continuing operations. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-12Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 231 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482663/740-10-55-231Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 6.I.7) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479360/740-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI 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https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(7)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32 + Details Name: us-gaap_InvestmentIncomeInterest Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: 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-Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 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http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OperatingCostsAndExpensesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe net result for the period of deducting operating expenses from operating revenues. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 31 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-31 + Details Name: us-gaap_OperatingIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of income (expense) related to nonoperating activities, classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_OtherNonoperatingIncomeExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of expense for research and development. Includes, but is not limited to, cost for computer software product to be sold, leased, or otherwise marketed and writeoff of research and development assets acquired in transaction other than business combination or joint venture formation or both. Excludes write-down of intangible asset acquired in business combination or from joint venture formation or both, used in research and development activity. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 985 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481283/985-20-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 730 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482916/730-10-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 912 -SubTopic 730 -Name Accounting Standards Codification -Section 25 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479532/912-730-25-1 + Details Name: us-gaap_ResearchAndDevelopmentExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of expenses associated with exit or disposal activities pursuant to an authorized plan. Excludes expenses related to a discontinued operation or an asset retirement obligation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.P.4.b.1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482047/420-10-45-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 420 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 5.P.3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479823/420-10-S99-1 + Details Name: us-gaap_RestructuringCharges Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-40Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-4 + Details Name: us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_RevenuesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe aggregate total costs related to selling a firm's product and services, as well as all other general and administrative expenses. Direct selling expenses (for example, credit, warranty, and advertising) are expenses that can be directly linked to the sale of specific products. Indirect selling expenses are expenses that cannot be directly linked to the sale of specific products, for example telephone expenses, Internet, and postal charges. General and administrative expenses include salaries of non-sales personnel, rent, utilities, communication, etc. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2 + Details Name: us-gaap_SellingGeneralAndAdministrativeExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe average number of shares or units issued and outstanding that are used in calculating diluted EPS or earnings per unit (EPU), determined based on the timing of issuance of shares or units in the period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 16 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-16 + Details Name: us-gaap_WeightedAverageNumberOfDilutedSharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of [basic] shares or units, after adjustment for contingently issuable shares or units and other shares or units not deemed outstanding, determined by relating the portion of time within a reporting period that common shares or units have been outstanding to the total time in that period. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-10 + Details Name: us-gaap_WeightedAverageNumberOfSharesOutstandingBasic Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - Details Name: srt_ProductOrServiceAxis=us-gaap_ProductMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=cdxs_ResearchandDevelopmentRevenueMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 16 R5.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Condensed Consolidated Statements of Comprehensive Loss (Unaudited) - USD ($) $ in Thousands 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Statement of Comprehensive Income [Abstract] Â Â Â Â Net loss $ (22,755) $ (11,523) $ (34,260) $ (34,140) Other comprehensive loss: Â Â Â Â Unrealized loss on available-for-sale short-term investments, net of tax (7) 0 (23) 0 Comprehensive loss $ (22,762) $ (11,523) $ (34,283) $ (34,140) X - DefinitionAmount after tax of increase (decrease) in equity from transactions and other events and circumstances from net income and other comprehensive income, attributable to parent entity. Excludes changes in equity resulting from investments by owners and distributions to owners. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(24)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(26)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 220 -SubTopic 10 -Section 45 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-5 + Details Name: us-gaap_ComprehensiveIncomeNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: 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DefinitionAmount, after tax and adjustment, of unrealized gain (loss) on investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale) and unrealized gain (loss) on investment in debt security measured at amortized cost (held-to-maturity) from transfer to available-for-sale. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 10A -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-10AReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-11 + Details Name: us-gaap_OtherComprehensiveIncomeLossAvailableForSaleSecuritiesAdjustmentNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OtherComprehensiveIncomeLossNetOfTaxPeriodIncreaseDecreaseAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_StatementOfIncomeAndComprehensiveIncomeAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 17 R6.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Condensed Consolidated Statements of Stockholders' Equity (Unaudited) - USD ($) $ in Thousands Total Common Stock Additional Paid-in Capital Accumulated Other Comprehensive Loss Accumulated Deficit Beginning balance (in shares) at Dec. 31, 2022 Â 65,811,000 Â Â Â Beginning balance at Dec. 31, 2022 $ 144,797 $ 6 $ 566,081 $ 0 $ (421,290) Increase (Decrease) in Stockholders' Equity [Roll Forward] Â Â Â Â Â Issuance of common stock upon exercise of stock options (in shares) 214,284 214,000 Â Â Â Issuance of common stock upon exercise of stock options $ 422 Â 422 Â Â Issuance of common stock upon release of stock awards (in shares) Â 764,000 Â Â Â Issuance of common stock in connection with an equity sales agreement, net of issuance costs (shares) Â 3,080,000 Â Â Â Issuance of common stock in connection with an equity sales agreement, net of issuance costs 7,931 Â 7,931 Â Â Stock-based compensation 5,525 Â 5,525 Â Â Taxes paid related to net share settlement of equity awards (in shares) Â (65,000) Â Â Â Taxes paid related to net share settlement of equity awards (404) Â (404) Â Â Net loss (34,140) Â Â Â (34,140) Ending balance (in shares) at Jun. 30, 2023 Â 69,804,000 Â Â Â Ending balance at Jun. 30, 2023 124,131 $ 6 579,555 0 (455,430) Beginning balance (in shares) at Mar. 31, 2023 Â 66,696,000 Â Â Â Beginning balance at Mar. 31, 2023 126,016 $ 6 569,917 0 (443,907) Increase (Decrease) in Stockholders' Equity [Roll Forward] Â Â Â Â Â Issuance of common stock upon exercise of stock options (in shares) Â 71,000 Â Â Â Issuance of common stock upon exercise of stock options 141 Â 141 Â Â Issuance of common stock upon release of stock awards (in shares) Â 285,000 Â Â Â Issuance of common stock in connection with an equity sales agreement, net of issuance costs (shares) Â 2,752,000 Â Â Â Issuance of common stock in connection with an equity sales agreement, net of issuance costs 6,781 Â 6,781 Â Â Stock-based compensation 2,716 Â 2,716 Â Â Net loss (11,523) Â Â Â (11,523) Ending balance (in shares) at Jun. 30, 2023 Â 69,804,000 Â Â Â Ending balance at Jun. 30, 2023 124,131 $ 6 579,555 0 (455,430) Beginning balance (in shares) at Dec. 31, 2023 Â 69,905,000 Â Â Â Beginning balance at Dec. 31, 2023 $ 86,615 $ 7 584,138 0 (497,530) Increase (Decrease) in Stockholders' Equity [Roll Forward] Â Â Â Â Â Issuance of common stock upon exercise of stock options (in shares) 75,856 73,000 Â Â Â Issuance of common stock upon exercise of stock options $ 143 Â 143 Â Â Issuance of common stock upon release of stock awards (in shares) Â 812,000 Â Â Â Issuance of common stock warrants in connection with debt issuance 859 Â 859 Â Â Issuance of common stock under employee stock purchase plan (in shares) Â 124,000 Â Â Â Issuance of common stock under employee stock purchase plan 260 Â 260 Â Â Stock-based compensation 7,853 Â 7,853 Â Â Net loss (34,260) Â Â Â (34,260) Other comprehensive loss (23) Â Â (23) Â Ending balance (in shares) at Jun. 30, 2024 Â 70,914,000 Â Â Â Ending balance at Jun. 30, 2024 61,447 $ 7 593,253 (23) (531,790) Beginning balance (in shares) at Mar. 31, 2024 Â 70,554,000 Â Â Â Beginning balance at Mar. 31, 2024 79,267 $ 7 588,311 (16) (509,035) Increase (Decrease) in Stockholders' Equity [Roll Forward] Â Â Â Â Â Issuance of common stock upon release of stock awards (in shares) Â 236,000 Â Â Â Issuance of common stock under employee stock purchase plan (in shares) Â 124,000 Â Â Â Issuance of common stock under employee stock purchase plan 260 Â 260 Â Â Stock-based compensation 4,682 Â 4,682 Â Â Net loss (22,755) Â Â Â (22,755) Other comprehensive loss (7) Â Â (7) 0 Ending balance (in shares) at Jun. 30, 2024 Â 70,914,000 Â Â Â Ending balance at Jun. 30, 2024 $ 61,447 $ 7 $ 593,253 $ (23) $ (531,790) X - DefinitionAmount of decrease to equity for grantee's tax withholding obligation for award under share-based payment arrangement. + ReferencesNo definition available. + Details Name: us-gaap_AdjustmentsRelatedToTaxWithholdingForShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of increase to additional paid-in capital (APIC) for recognition of cost for award under share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 20 -Section 55 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481089/718-20-55-13Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 20 -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481089/718-20-55-12 + Details Name: us-gaap_AdjustmentsToAdditionalPaidInCapitalSharebasedCompensationRequisiteServicePeriodRecognitionValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of increase in additional paid in capital (APIC) resulting from the issuance of warrants. Includes allocation of proceeds of debt securities issued with detachable stock purchase warrants. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 470 -SubTopic 20 -Section 25 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481284/470-20-25-2 + Details Name: us-gaap_AdjustmentsToAdditionalPaidInCapitalWarrantIssued Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionA roll forward is a reconciliation of a concept from the beginning of a period to the end of a period. + ReferencesNo definition available. + Details Name: us-gaap_IncreaseDecreaseInStockholdersEquityRollForward Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 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Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI

https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount after tax and reclassification adjustments of other comprehensive income (loss). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481674/830-30-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 17 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-17Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-4Reference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 830 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481694/830-30-45-20Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(21)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(23)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 12: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 55 -Paragraph 15 -SubTopic 10 -Topic 220 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482739/220-10-55-15Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1A + Details Name: us-gaap_OtherComprehensiveIncomeLossNetOfTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionNumber of shares issued which are neither cancelled nor held in the treasury. + ReferencesNo definition available. + Details Name: us-gaap_SharesOutstanding Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of shares used to settle grantee's tax withholding obligation for award under share-based payment arrangement. + ReferencesNo definition available. + Details Name: us-gaap_SharesPaidForTaxWithholdingForShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of shares issued during the period as a result of an employee stock purchase plan. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesEmployeeStockPurchasePlans Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of new stock issued during the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478448/946-505-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesNewIssues Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of shares of stock issued attributable to transactions classified as other. + ReferencesNo definition available. + Details Name: us-gaap_StockIssuedDuringPeriodSharesOther Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of share options (or share units) exercised during the current period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesStockOptionsExercised Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionAggregate change in value for stock issued during the period as a result of employee stock purchase plan. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodValueEmployeeStockPurchasePlan Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionEquity impact of the value of new stock issued during the period. Includes shares issued in an initial public offering or a secondary public offering. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 11 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-11Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 205 -Name Accounting Standards Codification -Section 45 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478009/946-205-45-4Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478448/946-505-50-2Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodValueNewIssues Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionValue of stock issued as a result of the exercise of stock options. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodValueStockOptionsExercised Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of equity (deficit) attributable to parent. Excludes temporary equity and equity attributable to noncontrolling interest. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(30)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(31)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(19)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.6-05(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 11: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 12: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 13: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 14: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 310 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 4.E) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480418/310-10-S99-2 + Details Name: us-gaap_StockholdersEquity Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML 18 R7.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Condensed Consolidated Statements of Stockholders' Equity (Unaudited) (Parenthetical) - USD ($) $ in Thousands 3 Months Ended 6 Months Ended Jun. 30, 2023 Jun. 30, 2023 Statement of Stockholders' Equity [Abstract] Â Â Costs incurred in connection with offering $ 331 $ 721 X - DefinitionThe cash outflow for cost incurred directly with the issuance of an equity security. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_PaymentsOfStockIssuanceCosts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_StatementOfStockholdersEquityAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 19 R8.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Condensed Consolidated Statements of Cash Flows (Unaudited) - USD ($) $ in Thousands 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Operating activities: Â Â Net loss $ (34,260) $ (34,140) Adjustments to reconcile net loss to net cash used in operating activities: Â Â Depreciation and amortization 2,516 2,946 Reduction in the carrying amount of right-of-use assets 1,561 2,517 Stock-based compensation 7,853 5,525 Asset impairment and other charges 165 0 Equity securities earned from research and development activities 0 (118) Non-cash interest expense 345 0 Amortization of discount on short-term investments (487) 0 Other non-cash items 14 (15) Changes in operating assets and liabilities: Â Â Financial assets 7,137 19,261 Inventories 453 (23) Prepaid expenses and other assets 2,402 1,324 Accounts payable (2,275) 631 Accrued compensation and other accrued liabilities (2,598) (10,373) Other long-term liabilities (2,022) (2,864) Deferred revenue (761) (9,970) Net cash used in operating activities (19,957) (25,299) Investing activities: Â Â Purchase of property and equipment (1,525) (4,120) Proceeds from sale of property and equipment 15 15 Investment in short-term investments (57,140) 0 Proceeds from maturity of short-term investments 3,000 0 Investment in non-marketable securities 0 (750) Net cash used in investing activities (55,650) (4,855) Financing activities: Â Â Proceeds from exercises of stock options 281 422 Proceeds from issuance of stock under employee stock purchase plan 327 0 Proceeds from issuance of common stock in connection with equity sales agreement 0 8,652 Costs incurred in connection with equity sales agreements (403) (395) Proceeds from long-term debt 29,521 0 Payment of debt issuance costs (642) 0 Taxes paid related to net share settlement of equity awards 0 (404) Net cash

provided by financing activities 29,084 8,275 Net decrease in cash, cash equivalents and restricted cash (46,523) (21,879) Cash, cash equivalents and restricted cash at the beginning of the period 66,697 116,026 Cash, cash equivalents and restricted cash at the end of the period 20,174 94,147 Supplemental disclosure of cash flow information: Â Â Interest paid 890 10 Income taxes paid 17 193 Supplemental non-cash investing and financing activities: Â Â Capital expenditures incurred but not yet paid 768 434 Transfer from property and equipment to assets held for sale 59 0 Cash reconciliation: Â Â Cash and cash equivalents 18,595 92,093 Restricted cash, current and non-current 1,579 2,054 Total cash, cash equivalents and restricted cash 20,174 $ 94,147 Short-term investments 54,604 Â Cash, cash equivalents, and short-term investments $ 73,199 Â X - DefinitionAmortization Of Discount On Short-term Investments + ReferencesNo definition available. + Details Name: cdxs_AmortizationOfDiscountOnShortTermInvestments Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionCosts Incurred In Connection With Equity Sales Agreements + ReferencesNo definition available. + Details Name: cdxs_CostsIncurredInConnectionWithEquitySalesAgreements Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionIncrease (Decrease) in Employee Related Liabilities and Other Accrued Liabilities + ReferencesNo definition available. + Details Name: cdxs_IncreaseDecreaseInEmployeeRelatedLiabilitiesAndOtherAccruedLiabilities Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionTransfer From Property And Equipment To Assets Held-For-Sale + ReferencesNo definition available. + Details Name: cdxs_TransferFromPropertyAndEquipmentToAssetsHeldForSale Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_AdjustmentsToReconcileNetIncomeLossToCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of amortization expense attributable to debt issuance costs. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-3 + Details Name: us-gaap_AmortizationOfFinancingCosts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of write-down of assets recognized in the income statement. Includes, but is not limited to, losses from tangible assets, intangible assets and goodwill. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 360 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482130/360-10-45-4 + Details Name: us-gaap_AssetImpairmentCharges Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionFuture cash outflow to pay for purchases of fixed assets that have occurred. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-4Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-3Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-5 + Details Name: us-gaap_CapitalExpendituresIncurredButNotYetPaid Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_CashAndCashEquivalentsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Also includes short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. Excludes cash and cash equivalents within disposal group and discontinued operation. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap_CashAndCashEquivalentsAtCarryingValue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionCash includes currency on hand as well as demand deposits with banks or financial institutions. It also includes other kinds of accounts that have the general characteristics of demand deposits in that the customer may deposit additional funds at any time and effectively may withdraw funds at any time without prior notice or penalty. Cash equivalents, excluding items classified as marketable securities, include short-term, highly liquid Investments that are both readily convertible to known amounts of cash, and so near their maturity that they present minimal risk of changes in value because of changes in interest rates. Generally, only investments with original maturities of three months or less qualify under that definition. Original maturity means original maturity to the entity holding the investment. For example, both a three-month US Treasury bill and a three-year Treasury note purchased three months from maturity qualify as cash equivalents. However, a Treasury note purchased three years ago does not become a cash equivalent when its remaining maturity is three months. Short-term investments, exclusive of cash equivalents, generally consist of marketable securities intended to be sold within one year (or the normal operating cycle if longer) and may include trading securities, available-for-sale securities, or held-to-maturity securities (if maturing within one year), as applicable. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CashCashEquivalentsAndShortTermInvestments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of cash and cash equivalents, and cash and cash equivalents restricted to withdrawal or usage. Excludes amount for disposal group and discontinued operations. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalents Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of increase (decrease) in cash, cash equivalents, and cash and cash equivalents restricted to withdrawal or usage; including effect from exchange rate change. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 1 -SubTopic 230 -Topic 830 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477401/830-230-45-1 + Details Name: us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe aggregate expense recognized in the current period that allocates the cost of tangible assets, intangible assets, or depleting assets to periods that benefit from use of the assets. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 49 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-49Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22 + Details Name: us-gaap_DepreciationDepletionAndAmortization Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount, before refund, of cash paid to foreign, federal, state, and local jurisdictions as income tax. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-2AReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 23 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-23Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 740 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482685/740-10-50-22Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-2 + Details Name: us-gaap_IncomeTaxesPaid Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the aggregate amount of liabilities incurred (and for which invoices have typically been received) and payable to vendors for goods and services received that are used in an entity's business. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInAccountsPayable Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of increase (decrease) in obligation to transfer good or service to customer for which consideration has been received or is receivable. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 912 -SubTopic 310 -Name Accounting Standards Codification -Section 45 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478345/912-310-45-11Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInContractWithCustomerLiability Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in outstanding loans including accrued interest. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInFinanceReceivables Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe increase (decrease) during the reporting period in the aggregate value of all inventory held by the reporting entity, associated with underlying transactions that are classified as operating activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInInventories Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_IncreaseDecreaseInOperatingCapitalAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of increase (decrease) in noncurrent operating liabilities classified as other. + ReferencesNo definition available. + Details Name: us-gaap_IncreaseDecreaseInOtherNoncurrentLiabilities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of increase (decrease) in prepaid expenses, and assets classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_IncreaseDecreaseInPrepaidDeferredExpenseAndOtherAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash paid for interest, excluding capitalized interest, classified as operating activity. Includes, but is not limited to, payment to settle zero-coupon bond for accreted interest of debt discount and debt instrument with insignificant coupon interest rate in relation to effective interest rate of borrowing attributable to accreted interest of debt discount. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 17 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-17Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-2 + Details Name: us-gaap_InterestPaidNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash inflow (outflow) from financing activities, including discontinued operations. Financing activity cash flows include obtaining resources from owners and providing them with a return on, and a return of, their investment; borrowing money and repaying amounts borrowed, or settling the obligation; and obtaining and paying for other resources obtained from creditors on long-term credit. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24 + Details Name: us-gaap_NetCashProvidedByUsedInFinancingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInFinancingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash inflow (outflow) from investing activities, including discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24 + Details Name: us-gaap_NetCashProvidedByUsedInInvestingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInInvestingActivitiesAbstract Namespace Prefix: us-gaap_

Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash inflow (outflow) from operating activities, including discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef - Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 24 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-24Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 25 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-25 + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NetCashProvidedByUsedInOperatingActivitiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-07(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-1Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(1)(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 23: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 29: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iii)(B)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 30: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 31: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 32: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_NoncashInvestingAndFinancingItemsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of periodic reduction over lease term of carrying amount of right-of-use asset from operating lease. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_OperatingLeaseRightOfUseAssetAmortizationExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of income or gain included in net income that result in no cash inflow (outflow), classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_OtherNoncashIncome Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionOther cash or noncash adjustments to reconcile net income to cash provided by (used in) operating activities that are not separately disclosed in the statement of cash flows (for example, cash received or cash paid during the current period for miscellaneous operating activities, net change during the reporting period in other assets or other liabilities). + ReferencesNo definition available. + Details Name: us-gaap_OtherOperatingActivitiesCashFlowStatement Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash outflow paid to third parties in connection with debt origination, which will be amortized over the remaining maturity period of the associated long-term debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 15 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_PaymentsOfDebtIssuanceCosts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash outflow to satisfy grantee's tax withholding obligation for award under share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 15 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_PaymentsRelatedToTaxWithholdingForShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of cash outflow to acquire investments classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToAcquireOtherInvestments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow associated with the acquisition of long-lived, physical assets that are used in the normal conduct of business to produce goods and services and not intended for resale; includes cash outflows to pay for construction of self-constructed assets. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToAcquirePropertyPlantAndEquipment Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash outflow for securities or other assets acquired, which qualify for treatment as an investing activity and are to be liquidated, if necessary, within the current operating cycle. Includes cash flows from securities classified as trading securities that were acquired for reasons other than sale in the short-term. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-13 + Details Name: us-gaap_PaymentsToAcquireShortTermInvestments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionThe cash inflow from the additional capital contribution to the entity. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14 + Details Name: us-gaap_ProceedsFromIssuanceOfCommonStock Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash inflow from a debt initially having maturity due after one year or beyond the operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 14 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14 + Details Name: us-gaap_ProceedsFromIssuanceOfLongTermDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash inflow from maturities, prepayments, calls and collections of all investments, including securities and other assets, having ready marketability and intended by management to be liquidated, if necessary, within the current operating cycle. Includes cash flows from securities classified as trading securities that were acquired for reasons other than sale in the short-term. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-13Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-12 + Details Name: us-gaap_ProceedsFromMaturitiesPrepaymentsAndCallsOfShorttermInvestments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash inflow from the sale of long-lived, physical assets that are used in the normal conduct of business to produce goods and services and not intended for resale. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 12 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-12 + Details Name: us-gaap_ProceedsFromSaleOfPropertyPlantAndEquipment Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of cash inflow from exercise of option under share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2A -Subparagraph (a) -SubTopic 10 -Topic 718 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2A + Details Name: us-gaap_ProceedsFromStockOptionsExercised Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionThe cash inflow associated with the amount received from the stock plan during the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 14 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-14 + Details Name: us-gaap_ProceedsFromStockPlans Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of cash and cash equivalents restricted as to withdrawal or usage. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial institutions, and other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482913/230-10-50-8Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(1)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-4 + Details Name: us-gaap_RestrictedCashAndCashEquivalents Namespace Prefix: us-gaap_ Data

Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of noncash expense for share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_ShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of investments including trading securities, available-for-sale securities, held-to-maturity securities, and short-term investments classified as other and current. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_ShortTermInvestments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_SupplementalCashFlowInformationAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 20 R9.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Description of Business 6 Months Ended Jun. 30, 2024 Organization, Consolidation and Presentation of Financial Statements [Abstract] Â Description of Business Description of BusinessIn these notes to the unaudited condensed consolidated financial statements, the â€œCompany,â€ â€œCodexis,â€ â€œwe,â€ â€œus,â€ and â€œourâ€ refers to Codexis, Inc. and its subsidiaries on a consolidated basis.We discover, develop, enhance, and commercialize novel, high performance enzymes and other classes of proteins leveraging our proprietary CodeEvolverÂ® directed evolution technology platform.We previously managed our business as two business segments, Performance Enzymes and Novel Biotherapeutics. During the third and fourth quarters of 2023, we made changes to the structure of our organization in connection with the restructuring of our business that we announced in July 2023, including the discontinuation of investment in certain development programs, primarily in our biotherapeutics business, consolidation of operations to our Redwood City, California headquarters, and headcount reduction. In connection with these organizational structure changes, corresponding changes were made to how our business is managed, how results are reported internally and how our Chief Executive Officer (â€œCEOâ€), our chief operating decision maker, assesses performance and allocates resources. As a result of these changes, our previous Performance Enzymes and Novel Biotherapeutics operating segments were combined into a single reportable segment. Effective October 1, 2023, the Company's operations are managed and reported to the CEO on a consolidated basis. The CEO assesses performance and allocates resources based on the consolidated results of operations. We believe that these changes better align internal resources to create a more efficient and effective organizational structure. Under this new organizational and reporting structure, we managed our business as one reportable segment as of December 31, 2023. Comparative prior period disclosures that reflected the previous two segments' information have been revised to conform to this change in our reportable segment. X - DefinitionThe entire disclosure for the nature of an entity's business, major products or services, principal markets including location, and the relative importance of its operations in each business and the basis for the determination, including but not limited to, assets, revenues, or earnings. For an entity that has not commenced principal operations, disclosures about the risks and uncertainties related to the activities in which the entity is currently engaged and an understanding of what those activities are being directed toward. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Topic 275 -Publisher FASB -URI https://asc.fasb.org/275/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-1 + Details Name: us-gaap_NatureOfOperations Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 21 R10.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Basis of Presentation and Summary of Significant Accounting Policies 6 Months Ended Jun. 30, 2024 Accounting Policies [Abstract] Â Basis of Presentation and Summary of Significant Accounting Policies Basis of Presentation and Summary of Significant Accounting PoliciesBasis of Presentation and Principles of ConsolidationThe accompanying unaudited condensed consolidated financial statements have been prepared in accordance with generally accepted accounting principles in the United States of America (â€œGAAPâ€) and the applicable rules and regulations of the Securities and Exchange Commission (â€œSECâ€) for interim financial information but does not include all the information and notes required by GAAP for complete financial statements. These interim unaudited condensed consolidated financial statements should be read in conjunction with the audited consolidated financial statements and notes thereto contained in our Annual Report on Form 10-K for the year ended DecemberÂ 31, 2023. The condensed consolidated balance sheet at DecemberÂ 31, 2023 has been derived from the audited consolidated financial statements at that date, but does not include all disclosures, including notes, required by GAAP for complete financial statements. The significant accounting policies used in preparation of the unaudited condensed consolidated financial statements for the three and six months ended June 30, 2024 and 2023, are consistent with those discussed in Note 2 to the audited consolidated financial statements in the Companyâ€™s 2023 Annual Report on Form 10-K and are updated below as necessary. There have been no significant changes in our significant accounting policies or critical accounting estimates since DecemberÂ 31, 2023.The unaudited condensed consolidated financial statements have been prepared on the same basis as the audited consolidated financial statements and, in the opinion of management, reflect all adjustments of a normal recurring nature considered necessary to present fairly our financial position as of JuneÂ 30, 2024 and results of operations for the interim periods presented. The interim results are not necessarily indicative of the results for any future interim period or for the entire year.The unaudited condensed consolidated financial statements include the accounts of Codexis, Inc. and its wholly owned subsidiaries. All intercompany balances and transactions have been eliminated in consolidation. Use of EstimatesThe preparation of our unaudited condensed consolidated financial statements in conformity with GAAP requires us to make estimates, judgments and assumptions that may affect the reported amounts of assets, liabilities, equity, revenues and expenses and related disclosure of contingent assets and liabilities. We regularly assess these estimates which primarily affect revenue recognition, deferred revenue, inventories, valuation of equity investments, goodwill arising out of business acquisitions, accrued liabilities, stock awards, and the valuation allowances associated with deferred tax assets. Actual results could differ from those estimates and such differences may be material to the condensed consolidated financial statements.Short-term InvestmentsWe classify all marketable debt securities that have effective maturities of three months or less from the date of purchase as cash equivalents and those with effective maturities of greater than three months as short-term investment securities in the condensed consolidated balance sheets. We determine the appropriate classification of our short-term investments at the time of purchase and reevaluate such designation at each balance sheet date. We have classified and accounted for our short-term investments as available-for-sale. After consideration of our risk versus reward objectives, as well as our liquidity requirements, we may sell these debt securities prior to their effective maturities. We carry these short-term investments at fair value, and report the unrealized gains and losses, net of taxes, as a component of stockholdersâ€™ equity, except for the changes in allowance for expected credit losses, which are included in â€œInterest and other expense, netâ€ in the unaudited condensed consolidated statements of operations. We determine any realized gains or losses on the sale of short-term investments on a specific identification method, and we record such gains and losses as a component of interest income.Short-term investments are reviewed periodically for allowances for credit losses and impairment. When evaluating the investments, the Company reviews factors such as the extent to which the fair value of the security is less than the amortized cost basis, adverse conditions specifically related to the security, the financial condition of the issuer, the Companyâ€™s intent to sell, and whether it would be more likely than not that the Company would be required to sell the investments before the recovery of the amortized cost basis.Impairment of Long-Lived AssetsWe evaluate the carrying values of long-lived assets, which include property and equipment and right-of-use assets, whenever events, changes in business circumstances or our planned use of long-lived assets indicate that their carrying amounts may not be fully recoverable or that their useful lives are no longer appropriate. If these facts and circumstances exist, we assess for recovery by comparing the carrying values of long-lived assets with the future net undiscounted cash flows expected to be generated by the asset. If such assets are considered to be impaired, the impairment to be recognized is measured by the amount by which the carrying amount of the asset exceeds the fair value of the asset. Assets Held For SaleThe Company classifies assets as held for sale when the following conditions are met: (i) management has committed to a plan to sell, (ii) the assets are available for immediate sale in their present condition, (iii) the Company has initiated an active program to identify a buyer, (iv) it is probable that a sale will occur within one year, (v) the assets are actively marketed for sale at a reasonable price in relation to their current fair value, and (vi) there is a low likelihood of significant changes to the plan or that the plan will be withdrawn. If all of the criteria are met as of the balance sheet date, the assets are presented separately in the consolidated balance sheet as held for sale at the lower of the carrying amount or fair value less costs to sell. The assets are then no longer depreciated or amortized while classified as held for sale.Accounting PronouncementsRecently adopted accounting pronouncementsThere were no recent accounting pronouncements or changes in accounting pronouncements during the three and six months ended June 30, 2024, that are of significance or potential significance to us.Recently issued accounting pronouncements not yet adoptedIn March 2024, the Financial Accounting Standards Board (â€œFASBâ€) issued ASU No. 2024-02, Codification Improvements - Amendments to Remove References to the Concepts Statements. This ASU amends the FASB Accounting Standard Codification (the â€œASCâ€) to remove references to various concepts statements and impacts a variety of topics in the ASC. This ASU is effective for public companies with annual periods beginning after December 15, 2024, with early adoption permitted. If an entity adopts the amendments in an interim period, it must adopt them as of the beginning of the fiscal year that includes that interim period. We are currently evaluating the effects of the standard on our consolidated financial statements and related disclosures.In December 2023, FASB issued ASU No. 2023-09, Income Taxes (Topic 740): Improvements to Income Tax Disclosures. The amendments in the ASU require public companies, on an annual basis, to provide disclosures of specific categories in the rate reconciliation, as well as disclosure of income taxes paid disaggregated by jurisdiction. This ASU is effective for public companies with annual periods beginning after December 15, 2024, with early adoption permitted. We are currently evaluating the effects of the standard on our consolidated financial statements and related disclosures.In November 2023, FASB issued ASU No. 2023-07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures. The amendments in the ASU are intended to improve reportable segment disclosure requirements primarily through enhanced disclosures about significant segment expenses. The standard is effective for fiscal years beginning after December 15, 2023, and interim periods within fiscal years beginning after December 15, 2024, with early adoption permitted. The standard should be applied retrospectively to all prior periods presented in the financial statements. We are currently evaluating the effects of the standard on our consolidated financial statements and related disclosures.In October 2023, FASB issued ASU No. 2023-06, Disclosure Improvements: Codification Amendments in Response to the SECâ€™s Disclosure Update and Simplification Initiative. The amendments in the ASU are intended to amend certain disclosure and presentation requirements for a variety of topics within the ASC. These amendments align the requirements in the ASC to the removal of certain disclosure requirements set out in Regulation S-X and Regulation S-K, as announced by the SEC. The effective date for each amended topic in the ASC is either the date on which the SECâ€™s removal of the related disclosure requirement from Regulation S-X or Regulation S-K becomes effective, or on June 30, 2027, if the SEC has not removed the requirements by that date. Early adoption is prohibited. We are currently evaluating the effects of the standard on our consolidated financial statements and related disclosures. X - ReferencesNo definition available. + Details Name: us-gaap_AccountingPoliciesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for all significant accounting policies of the reporting entity. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483426/235-10-50-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 235 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/235/tableOfContent + Details Name: us-gaap_SignificantAccountingPoliciesTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 22 R11.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue Recognition 6 Months Ended Jun. 30, 2024 Revenue from Contract with Customer [Abstract] Â Revenue Recognition Revenue RecognitionDisaggregation of RevenueThe following table provides information about disaggregated revenue from contracts with customers by geographic regions. The geographic regions that are tracked are the Americas (United States, Canada, and Latin America), EMEA (Europe, Middle East, and Africa), and APAC (Australia, New Zealand, Southeast Asia, and China).Disaggregated information is as follows (in thousands):Three Months Ended June 30,Six Months Ended June 30,20242023202420232Primary geographical markets:Americas$1,046Â $3,937Â $8,289Â $6,521Â EMEA1,967Â 8,349Â 4,539Â 11,438Â APAC4,966Â 9,037Â 12,224Â 16,346Â Total revenues$7,979Â $21,323Â $25,052Â $34,305Â Contract BalancesThe following table presents balances of contract assets, unbilled receivables, contract costs, and contract liabilities (in thousands):June 30, 2024December 31, 2023Contract assets$3,213Â $815Â Unbilled receivables$5,545Â $9,904Â Contract liabilities: deferred revenue$10,000Â $10,761Â We had no asset impairment charges related to financial assets in the three and six months ended June 30, 2024 and 2023.The increase in contract assets was primarily due to increases in product revenue from contracts subject to over time revenue recognition. The decrease in unbilled receivables was primarily due to the timing of billings. The decrease in deferred revenue was primarily due to the timing of recognition of revenue.As of JuneÂ 30, 2024, we have $4.4 million of short-term unbilled receivables presented as unbilled receivables within current assets and $1.2 million of long-term unbilled receivables that is included within the other non-current assets line item in the condensed consolidated balance sheets. As of DecemberÂ 31, 2023, we had $9.1 million of short-term unbilled receivables presented as unbilled receivables within current assets and $0.8 million of long-term unbilled receivables that is included within the other non-current assets line item in the condensed consolidated balance sheets.We recognized the following revenues (in thousands):Three Months Ended June 30,Six Months Ended June 30,Revenue recognized in the period for:20242023202420232Amounts included in contract liabilities at the beginning of the period:Performance obligations satisfied$129Â $6,107Â $500Â $7,814Â Changes in the period:Changes in the estimated transaction price allocated to performance obligations satisfied in prior periods(695)3,356Â (543)3,140Â Performance obligations satisfied from new activities in the period - contract revenue8,545Â 11,860Â 25,095Â 23,351Â Total revenues$7,979Â $21,323Â $25,052Â $34,305Â Performance ObligationsThe following table includes estimated revenue expected to be recognized in the future related to performance obligations that are unsatisfied or partially unsatisfied at the end of the reporting periods. The estimated revenue does not include contracts with original durations of one year or less, amounts of variable consideration attributable to royalties, or contract renewals that are unexercised as of JuneÂ 30, 2024.The balances in the table below are partially based on judgments involved in estimating future orders from customers subject to the exercise of material rights pursuant to respective contracts as of JuneÂ 30, 2024 (in thousands): Remainder of 2024202520262027 and ThereafterTotalProduct revenue$9,800Â $100Â $100Â $â€”Â $10,000Â X - ReferencesNo definition available. + Details Name: us-gaap_RevenueFromContractWithCustomerAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure of revenue from contract with customer to transfer good or service and to transfer nonfinancial asset. Includes, but is not limited to, disaggregation of revenue, credit loss recognized from contract with customer, judgment and change in judgment related to contract with customer, and asset recognized from cost incurred to obtain or fulfill contract with customer. Excludes insurance and lease contracts. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-9Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-15Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 12 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -

Paragraph 12 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-12Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-13Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Topic 606 -Publisher FASB -URI https://asc.fasb.org/606/tableOfContent + Details Name: us-gaap_RevenueFromContractWithCustomerTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 23 R12.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Net Loss per Share 6 Months Ended Jun. 30, 2024 Earnings Per Share [Abstract] Â Net Loss per Share Net Loss per ShareBasic net loss per share is computed by dividing the net loss by the weighted-average number of shares of common stock outstanding, less restricted stock awards (â€œRSAsâ€) subject to forfeiture. Diluted net loss per share is computed by dividing net loss by the weighted-average number of shares of common stock shares outstanding, less RSAs subject to forfeiture, plus all additional common shares that would have been outstanding, assuming dilutive potential common stock shares had been issued for other dilutive securities. For all periods presented, diluted and basic net loss per share are identical since potential common stock shares are excluded from the calculation, as their effect was anti-dilutive.Anti-Dilutive SecuritiesIn periods of net loss, the weighted average number of shares outstanding, prior to the application of the treasury stock method, excludes potentially dilutive securities from the computation of diluted net loss per common share because including such shares would have an anti-dilutive effect.The following shares were not considered in the computation of diluted net loss per share because their effect was anti-dilutive (in thousands):Â Three Months Ended June 30,Six Months Ended June 30,Â 20242023202420223Shares issuable under the Equity Incentive Plan and ESPP12,8939,31212,8939,312Warrants(1)424â€”424â€”Total potentially dilutive securities13,3179,31213,3179,312(1) Pertains to the warrants issued in connection with the Innovatus Loan. For additional information, see Note 11, â€œDebt.â€ X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for earnings per share. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/260/tableOfContentReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-3 + Details Name: us-gaap_EarningsPerShareTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 24 R13.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Investments in Non-Marketable Securities 6 Months Ended Jun. 30, 2024 Investments, Debt and Equity Securities [Abstract] Â Investments in Non-Marketable Securities Investments in Non-Marketable SecuritiesNon-Marketable Equity SecuritiesOur non-marketable equity securities are investments in privately held companies without readily determinable market value and primarily relate to our investments in Molecular Assemblies, Inc. (â€œMAIâ€) and seqWell, Inc. (â€œseqWellâ€). These investments are accounted for under the measurement alternative and are measured at cost minus impairment, if any, plus or minus changes resulting from observable price changes for identical or similar securities of the same issuer. Non-marketable equity securities are measured at fair value on a non-recurring basis and classified within Level 2 in the fair value hierarchy when we estimate the fair value of these investments using the observable transaction price paid by third party investors for the same or similar security of the same issuers. The fair value of non-marketable equity securities are classified within Level 3 when we estimate fair value using unobservable inputs such as when we remeasure due to impairment and we use discount rates, market data of comparable companies, and rights and obligations of the securities the Company holds, among others. We adjust the carrying value of non-marketable equity securities which have been remeasured during the period and recognize resulting gains or losses as a component of interest and other expense, net in the unaudited condensed consolidated statements of operations.There was no remeasurement event for our investments in MAI, seqWell, and other non-marketable equity securities that occurred during the three and six months ended June 30, 2024 and 2023. We recognized no realized gains or losses during the three and six months ended June 30, 2024 and 2023. The following table presents the carrying value of our non-marketable equity securities (in thousands):Â June 30, 2024December 31, 2023MAI$6,693Â $6,693Â seqWell2,625Â 2,625Â Other investments in non-marketable equity securities382Â 382Â Total non-marketable equity securities$9,700Â $9,700Â X - ReferencesNo definition available. + Details Name: us-gaap_InvestmentsDebtAndEquitySecuritiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for cash, cash equivalents, investments in debt and equity instruments (including cost and equity investees and related income statement amounts), equity and cost method investments, investments in joint ventures and any other investment. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 65 -Paragraph 13 -Subparagraph (d)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482477/820-10-65-13 + Details Name: us-gaap_InvestmentsInDebtAndEquityInstrumentsCashAndCashEquivalentsUnrealizedAndRealizedGainsLossesTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 25 R14.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Fair Value Measurements 6 Months Ended Jun. 30, 2024 Fair Value Disclosures [Abstract] Â Fair Value Measurements Fair Value MeasurementsThe following tables show the Companyâ€™s cash, cash equivalents, and short-term investments by significant investment category as of JuneÂ 30, 2024 and DecemberÂ 31, 2023 (in thousands):June 30, 2024Amortized CostUnrealized GainsUnrealized LossesFair ValueCash and Cash EquivalentsShort-term InvestmentsCash$6,195Â $â€”Â $â€”Â $6,195Â $6,195Â $â€”Â Level 1:Money market funds12,400Â â€”Â â€”Â 12,400Â 12,400Â â€”Â Level 2(1):Commercial paper11,360Â â€”Â (6)11,354Â â€”Â 11,354Â Corporate debt3,934Â â€”Â (5)3,929Â â€”Â 3,929Â U.S. treasury securities39,333Â â€”Â (12)39,321Â â€”Â 39,321Â Subtotal54,627Â â€”Â (23)54,604Â â€”Â 54,604Â Total$73,222Â $â€”Â (23)73,199Â $18,595Â $54,604Â (1) The valuation techniques used to measure the fair values of the Companyâ€™s Level 2 financial instruments uses inputs that are either directly or indirectly observable for the asset through correlation with market data at the measurement date and for the duration of the instrumentâ€™s anticipated life. December 31, 2023Amortized CostUnrealized GainsUnrealized LossesFair ValueCash and Cash EquivalentsShort-term InvestmentsCash$8,742Â $â€”Â $â€”Â $8,742Â $8,742Â $â€”Â Level 1:Money market funds56,374Â â€”Â â€”Â 56,374Â 56,374Â â€”Â Total$65,116Â $â€”Â $â€”Â $65,116Â $65,116Â $â€”Â We limit the credit risk associated with our cash equivalents and short-term investments by placing them with banks and institutions we believe are highly credit-worthy and investing in highly-rated investments. As of JuneÂ 30, 2024, and DecemberÂ 31, 2023, the contractual maturity of all investments held was less than one year. During the three and six months ended June 30, 2024 and 2023, we did not recognize any significant credit losses nor other-than-temporary impairment losses on our short-term investments. X - ReferencesNo definition available. + Details Name: us-gaap_FairValueDisclosuresAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure of the fair value measurement of assets and liabilities, which includes financial instruments measured at fair value that are classified in shareholders' equity, which may be measured on a recurring or nonrecurring basis. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 820 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/820/tableOfContent + Details Name: us-gaap_FairValueMeasurementInputsDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 26 R15.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Balance Sheets Details 6 Months Ended Jun. 30, 2024 Balance Sheets Details [Abstract] Â Balance Sheets Details Balance Sheets DetailsInventoriesInventories consisted of the following (in thousands):June 30, 2024December 31, 2023Raw materials$108Â $108Â Work-in-process6Â 7Â Finished goods2,118Â 2,570Â Total Inventories$2,232Â $2,685Â Prepaid expenses and other current assetsAs of JuneÂ 30, 2024, prepaid expenses and other current assets consisted of prepaid expenses of $2.1 million, assets held for sale of $0.1 million, and other current assets of $0.9 million. As of DecemberÂ 31, 2023, prepaid expenses and other current assets consisted of prepaid expenses of $4.6 million and other current assets of $0.6 million.Property and Equipment, netProperty and equipment, net consisted of the following (in thousands):June 30, 2024December 31, 2023Laboratory equipment$36,547Â $37,216Â Leasehold improvements11,960Â 11,912Â Computer equipment and software2,651Â 2,565Â Office equipment and furniture1,116Â 1,469Â Construction in progress1,513Â 1,636Â Property and equipment53,787Â 54,798Â Less: accumulated depreciation and amortization(39,821)(39,311)Property and equipment, net$13,966Â $15,487Â Depreciation expense included in both research and development expenses and selling, general and administrative expenses in the unaudited condensed consolidated statements of operations was as follows (in thousands):Three Months Ended June 30,Six Months Ended June 30,20242023202420223Research and development$1,020Â $1,242Â $2,052Â $2,486Â Selling, general and administrative219Â 238Â 439Â 460Â Total depreciation expense$1,239Â $1,480Â $2,491Â $2,946Â Other Accrued LiabilitiesOther accrued liabilities consisted of the following (in thousands):June 30, 2024December 31, 2023Accrued professional and outside service fees$2,766Â $2,330Â Accrued purchases 2,252Â 1,402Â Other399Â 1,003Â Total other accrued liabilities$5,417Â $4,735Â X - Definition-- None. No documentation exists for this element. -- + ReferencesNo definition available. + Details Name: cdxs_BalanceSheetsDetailsAbstract Namespace Prefix: cdxs_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionBalance sheets details. + ReferencesNo definition available. + Details Name: cdxs_BalanceSheetsDetailsTextBlock Namespace Prefix: cdxs_ Data Type: dtr-types1:textBlockItemType Balance Type: na Period Type: duration XML 27 R16.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock-based Compensation 6 Months Ended Jun. 30, 2024 Share-Based Payment Arrangement [Abstract] Â Stock-based Compensation Stock-based CompensationEmployee Stock Purchase PlanIn April 2023, the Board approved an employee stock purchase plan (the â€œESPPâ€) which became effective upon approval at the Annual Meeting in June 2023. The ESPP allows eligible employees of the Company to purchase shares of our common stock through payroll deductions. Offering periods are generally over a 24-month period and begin in May and November of each year. The per share purchase price will be the lower of 85% of the closing trading price per share of our common stock on the first trading date of an offering period in which a participant is enrolled or 85% of the closing trading price per share on the purchase date. Participant purchases are limited to a maximum of $25,000 of fair value of our stock per calendar year. The Company is authorized to grant up to 2,000,000 shares of common stock under the ESPP. The first offering period of the ESPP commenced in December 2023. For the three and six months ended June 30, 2024, 123,889 shares of common stock were purchased under the ESPP. As of JuneÂ 30, 2024, 1,876,111 shares of common stock were available for future issuance under the ESPP.We recognized $72 thousand and $149 thousand of stock-based compensation expenses related to the ESPP for the three and six months ended June 30, 2024, respectively. As of JuneÂ 30, 2024, the total unrecognized stock-based compensation expense, net of expected forfeitures, related to the ESPP was $0.6 million and is expected to be recognized over the remaining offering period.Stock OptionsStock options granted to employees generally have a maximum term of ten years and vest over four years from the date of grant, of which 25% vest at the end of one year, and 75% vest monthly over the remaining three years. In January 2024, the Board approved the grants of stock options with a vesting term over three years from the date of grant, of which 33% vest at the end of one year, and 67% vest monthly over the remaining two years.Restricted Stock Units (â€œRSUsâ€)We also grant employees RSUs, which generally vest over either a period with 33% of the shares subject to the RSUs vesting on each yearly anniversary of the vesting commencement date, in each case contingent upon such employeeâ€™s continued service on such vesting date. We may grant RSUs with different vesting terms from time to time.Stock-Based Compensation Expense Stock-based compensation expense is included in the unaudited condensed consolidated statements of operations as follows (in thousands):Â Three Months Ended June 30,Six Months Ended June 30,Â 20242023202420223Cost of product revenue$101Â $83Â $216Â $212Â Research and development 641Â 806Â 1,461Â 1,528Â Selling, general and administrative3,940Â 1,827Â 6,176Â 3,785Â Total$4,682Â $2,716Â $7,853Â $5,525Â The following table presents total stock-based compensation expense by security type included in the unaudited condensed consolidated statements of operations (in thousands):Â Three Months Ended June 30,Six Months Ended June 30,Â 20242023202420223Stock options$2,117Â $1,096Â $3,631Â $2,018Â RSUs and restricted stock awards (â€œRSAsâ€)1,152Â 1,373Â 2,469Â 2,499Â Performance-contingent restricted stock units (â€œPSUsâ€)â€”Â 279Â 247Â 1,116Â Performance based options (â€œPBOsâ€)1,341Â (32)1,357Â (108)ESPP72Â â€”Â 149Â â€”Â Total$4,682Â $2,716Â $7,853Â $5,525Â On June 29, 2024, we entered into an Advisory Services Agreement with a former executive of the Company. Pursuant to the advisory agreement, the exercise period for the former executiveâ€™s vested stock options and performance-based options was also extended. The modification resulted in a stock-based compensation expense of $2.0Â million recognized in selling, general and administrative expenses for the three and six months ended June 30, 2024.As of JuneÂ 30, 2024, unrecognized stock-based compensation expense, net of expected forfeitures, was $12.0 million related to unvested stock options, and $6.0 million related to unvested RSUs and RSAs. Stock-based compensation expense for these awards will be recognized through 2028. X - DefinitionThe entire disclosure for share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/718/tableOfContentReference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (l) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_DisclosureOfCompensationRelatedCostsShareBasedPaymentsTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 28 R17.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Capital Stock 6 Months Ended Jun. 30, 2024 Equity [Abstract] Â Capital Stock Capital StockExercise of OptionsFor the six months ended June 30, 2024 and JuneÂ 30, 2023, we issued 75,856 and 214,284 shares, respectively, upon option exercises at a weighted-average exercise price of $1.97 per share, with net cash proceeds of $0.1 million and $0.4 million, respectively.Sales AgreementsIn May 2021, we filed a Registration Statement on Form S-3 with the SEC (the â€œ2021 Registration Statementâ€), that automatically became effective upon its filing, under which we may sell common stock, preferred stock, debt securities, warrants, purchase contracts, and units from time to time in one or more offerings. On February 27, 2023, we filed a post-effective amendment to the 2021 Registration Statement. Pursuant to that post-effective amendment, we registered an aggregate $200.0Â million of securities. In May 2021, we entered into an Equity Distribution Agreement (â€œEDAâ€) with Piper Sandler & Co (â€œPSCâ€), under which PSC, as our exclusive agent, at our discretion and at such times that we may determine from time to time, may sell over a three-year period from the execution of the EDA up to a maximum of $50.0Â million of shares of our common stock. Under the terms of the EDA, PSC may sell the shares at market prices by any method that is deemed to be an â€œat the market offeringâ€ as defined in Rule 415 under the Securities Act of 1933, as amended (the â€œSecurities Actâ€).We are not required to sell any shares at any time during the term of the EDA. The EDA will terminate upon the earlier of: (i) the issuance and sale of all shares through PSC on the terms and conditions of the EDA, or (ii) the termination of the EDA in accordance with its terms. Either party may terminate the EDA at any time upon written notification to the other party in accordance with the EDA, and upon such notification, the offering will terminate. Under no circumstances shall any shares be sold pursuant to the EDA after the date which is three years after the registration statement is first declared effective by the SEC. We agreed to pay PSC a commission of 3% of the gross sales price of any shares sold pursuant to the EDA. With the exception of certain expenses, we will pay PSC up to 8% of the gross sales price of the shares sold pursuant to the EDA for a combined amount of commission and reimbursement of PSC's expenses and fees. No shares of our common stock were issued and sold pursuant to the EDA during the three and six months ended June 30, 2024. During the three and six months ended June 30, 2023, 2,751,941 and 3,079,421 shares of our common stock, respectively, were issued and sold pursuant to the EDA and we received gross proceeds of $7.1 million and $8.7 million, or $6.8 million and $7.9 million in net proceeds after PSC's commissions and direct offering expenses of $0.3 million and $0.7 million, respectively. On April 24, 2024, we terminated the EDA.On May 2, 2024, we entered into a Controlled Equity Offeringâ„¢ Sales Agreement (the â€œCantor Sales

Agreementâ€) with Cantor Fitzgerald & Co., as sales agent (â€œCantorâ€), under which Cantor, at our discretion and at such times that we may determine from time to time, may sell up to a maximum of $75.0Â million of shares of our common stock. Under the terms of the Cantor Sales Agreement, Cantor may sell the shares at market prices by any method that is deemed to be an â€œat the market offeringâ€ as defined in Rule 415 under the Securities Act. On May 2, 2024, we filed a registration statement on Form S-3 registering the offer and sale of these shares under the Securities Act which became effective on May 14, 2024. We will pay a commission of up to 3.0% of gross sales proceeds of any common stock sold under the Cantor Sales Agreement. We have made no sales under the Cantor Sales Agreement and as of JuneÂ 30, 2024, $75.0Â million of shares remained available for sale under the Cantor Sales Agreement. X - ReferencesNo definition available. + Details Name: us-gaap_EquityAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for equity. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 235 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477968/946-235-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 235 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477968/946-235-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478448/946-505-50-6Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480237/815-40-50-6Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(e)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/505/tableOfContentReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 14 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 16 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-16Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18 + Details Name: us-gaap_StockholdersEquityNoteDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 29 R18.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Commitments and Contingencies 6 Months Ended Jun. 30, 2024 Commitments and Contingencies Disclosure [Abstract] Â Commitments and Contingencies Commitments and ContingenciesLease and other informationThe Company has entered into operating leases primarily for office and laboratory space. Lease cost amounts included in the measurement of lease obligations and other information related to non-cancellable operating leases were as follows (in thousands):Three Months Ended June 30,Six Months Ended June 30,Â 20242023202420232Operating lease costs(1)$1,033Â $1,830Â $2,065Â $3,660Â (1) The Company had no variable lease costs.Other information:Operating LeasesWeighted-average remaining lease term (in years)3.4 yearsWeighted-average discount rate6.6Â %Six Months Ended June 30,Cash paid (in thousands):20242023Operating cash flows from operating leases$2,357Â $3,775Â As of JuneÂ 30, 2024, our maturity analysis of annual undiscounted cash flows of the non-cancellable operating leases are as follows (in thousands):Years Ending December 31,Operating Leases2024 (remaining 6 months)$2,369Â 20254,868Â 20265,014Â 20272,533Â 2028760Â Thereafter318Â Total minimum lease payments15,862Â Less: imputed interest1,692Â Lease obligations$14,170Â Reconciliation of operating lease liabilities as shown within the unaudited condensed consolidated balance sheets (in thousands):Current portion of lease obligations - Operating leases$3,979Â Long-term lease obligations - Operating leases10,191Â Total operating lease liabilities$14,170Â Other CommitmentsWe enter into supply and service arrangements in the normal course of business. Supply arrangements are primarily for fixed-price manufacture and supply. Service agreements are primarily for the development of manufacturing processes. Commitments under service agreements are typically subject to cancellation at our discretion which may require payment of certain cancellation fees. The timing of completion of service arrangements is subject to variability in estimates of the time required to complete the work.The following table provides quantitative data regarding our other commitments. Future minimum payments reflect amounts that we expect to pay including potential obligations under services agreements subject to risk of cancellation by us (in thousands):Payments Due by PeriodTotal2024 (Remaining 6 Months)2025 and ThereafterFacility maintenance agreement$281Â $281Â $â€”Â Legal ProceedingsWe may be involved in legal actions in the ordinary course of business, including inquiries and proceedings concerning business practices and intellectual property infringement, employee relations and other claims. We will recognize a loss contingency in the condensed consolidated financial statements when it is probable a liability has been incurred and the amount of the loss can be reasonably estimated. We will disclose any loss contingencies that do not meet both conditions if there is a reasonable possibility that a material loss may have been incurred. Gain contingencies are not recorded until they are realized.IndemnificationsWe are required to recognize a liability for the fair value of any obligations we assume upon the issuance of a guarantee. We have certain agreements with licensors, licensees and collaborators that contain indemnification provisions. In such provisions, we typically agree to indemnify the licensor, licensee and collaborator against certain types of third party claims. The maximum amount of the indemnifications is not limited. We accrue for known indemnification issues when a loss is probable and can be reasonably estimated. There were no accruals for expenses related to indemnification issues for any periods presented. X - ReferencesNo definition available. + Details Name: us-gaap_CommitmentsAndContingenciesDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for commitments and contingencies. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 405 -SubTopic 30 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/405-30/tableOfContentReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 440 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482648/440-10-50-4Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 450 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/450/tableOfContentReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 954 -SubTopic 440 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478522/954-440-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 440 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482648/440-10-50-4Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 440 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/440/tableOfContent + Details Name: us-gaap_CommitmentsAndContingenciesDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 30 R19.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Debt 6 Months Ended Jun. 30, 2024 Debt Disclosure [Abstract] Â Debt Disclosure DebtInnovatus Loan AgreementOn February 13, 2024 (the â€œClosing Dateâ€), we entered into a five-year term loan and security agreement (the â€œLoan Agreementâ€) with Innovatus Life Sciences Lending Fund I, LP (â€œInnovatusâ€), an affiliate of Innovatus Capital Partners, LLC, for an aggregate principal amount of up to $40.0 million and with a maturity date of February 13, 2029 (the â€œInnovatus Loanâ€). The Innovatus Loan consists of two tranches, of which the first tranche of $30.0 million was funded on February 13, 2024. We will be eligible to draw down the second tranche of $10.0 million upon achievement of certain milestones including pre-specified revenue thresholds. The floating per annum interest rate of the Innovatus Loan is equal to the sum of (a) the greater of (i) prime rate published in the Money Rates section of the Wall Street Journal and (ii) 7.50%, plus (b) 3.25%; provided that, at the election of the Company, up to 2.0% of such rate shall be payable in-kind until the third anniversary of the closing date. The Company is required to make monthly interest-only payments through February 1, 2027, after which the Company is required to make monthly amortizing payments, with the remaining balance of the principal plus accrued and unpaid interest due at maturity. 2.0% of the interest is payable in-kind for the first three years of the term by increasing the principal balance. Prepayments of the loan, in whole or in part, will be subject to an early prepayment fee which ranges between 3.0% and 1.0% and declines each year until the third anniversary date of the Closing Date, after which no prepayment fee is required. The Company is also required to pay an exit fee upon any payment or prepayment equal to 3.0% of the aggregate principal amount of the tranches funded under the Innovatus Loan.The Innovatus Loan contains customary representations and warranties and covenants, subject to customary carve outs, and includes financial covenants related to liquidity and net product revenue, with the latter beginning with the period ending September 30, 2024. The Company believes it is in compliance with the terms included within the Innovatus Loan as of JuneÂ 30, 2024. The Innovatus Loan is secured by perfected first priority liens on the Company's assets, including a commitment by the Company to not allow any liens to be placed upon the Company's intellectual property.In connection with the issuance of the Innovatus Loan, we recorded a debt discount of $1.3 million and capitalized debt issuance costs of $0.6 million. The discount and issuance costs will be amortized over the life of the Innovatus Loan. Interest expense for the Innovatus Loan for the three and six months ended June 30, 2024 was $1.0 million and $1.5 million respectively, and is inclusive of non-cash amortization of the debt discount, debt issuance costs, payable in-kind interest, and accretion of final payment. The carrying amount of the Innovatus Loan approximates fair value given its recent issuance and the interest rate is based on the prime rate. The effective interest rate for the Innovatus Loan was 14.0% as of JuneÂ 30, 2024.Additionally, in connection with entering into the Innovatus Loan, we entered into a Warrant Agreement with Innovatus on February 13, 2024 and issued to Innovatus a warrant to purchase an aggregate of 424,028 shares of the Companyâ€™s common stock at an exercise price of $2.83 per share. The warrants may be exercised on a cashless basis, and are immediately exercisable through the 10th anniversary of the issuance date. At the time of issuance, the Company determined the estimated fair value of the warrants of $0.9 million using the Black-Scholes model. As the warrants represent a freestanding equity instrument, the Company recorded the fair value of the warrants in additional paid-in capital during the first quarter of 2024.The Company accounts for the amortization of the debt discount and issuance costs utilizing the effective interest method. Long-term debt consisted of the following at JuneÂ 30, 2024 (in thousands):June 30, 2024Face value of debt$30,000Â Add: payment in-kind interest180Â Add: amortized exit fee52Â Less: unamortized debt discount(1,261)Less: unamortized debt issuance costs(605)Total long-term debt$28,365Â The future principal payments under the Innovatus Loan are as follows (in thousands):Years Ending December 31,2024$â€”Â 2025â€”Â 2026â€”Â 202713,264Â 202815,917Â 20292,653Â Total principal payments31,834Â Add: amortized exit fee52Â Less: uncapitalized payment in-kind interest(1,655)Less: unamortized debt issuance fee(1,261)Less: unamortized debt issuance costs(605)Total long-term debt$28,365Â X - ReferencesNo definition available. + Details Name: us-gaap_DebtDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for information about short-term and long-term debt arrangements, which includes amounts of borrowings under each line of credit, note payable, commercial paper issue, bonds indenture, debenture issue, own-share lending arrangements and any other contractual agreement to repay funds, and about the underlying arrangements, rationale for a classification as long-term, including repayment terms, interest rates, collateral provided, restrictions on use of assets and activities, whether or not in compliance with debt covenants, and other matters important to users of the financial statements, such as the effects of refinancing and noncompliance with debt covenants. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (a) -Publisher 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https://asc.fasb.org/1943274/2147477092/405-40-50-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 405 -SubTopic 40 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477092/405-40-50-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(c)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 470 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/470/tableOfContentReference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1C -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1CReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1C -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1CReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1C -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1CReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1IReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1IReference 21:

http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1I + Details Name: us-gaap_DebtDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 31 R20.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Segment, Geographical and Other Revenue Information 6 Months Ended Jun. 30, 2024 Segment Reporting [Abstract] Â Segment, Geographical and Other Revenue Information Segment, Geographical and Other Revenue InformationSegment InformationWe previously managed our business as two business segments, Performance Enzymes and Novel Biotherapeutics. During the third and fourth quarters of 2023, we made changes to the structure of our organization in connection with the restructuring of our business that we announced in July 2023, including the discontinuation of investment in certain development programs, primarily in our biotherapeutics business, consolidation of operations to our Redwood City, California headquarters, and headcount reduction. In connection with these organizational structure changes, corresponding changes were made to how our business is managed, how results are reported internally and how our CEO, our chief operating decision maker, assesses performance and allocates resources. As a result of these changes, our previous Performance Enzymes and Novel Biotherapeutics operating segments were combined into a single reportable segment. Effective October 1, 2023, the Company's operations are managed and reported to the CEO on a consolidated basis. The CEO assesses performance and allocated resources based on the consolidated results of operations. We believe that these changes better align internal resources and external go to market activities in order to create a more efficient and effective organizational structure. Under this new organizational and reporting structure, we managed our business as one reportable segment as of DecemberÂ 31, 2023. Comparative prior period disclosures that reflected the previous two segments' information have been revised to conform to this change in our reportable segment.Significant CustomersCustomers that each accounted for 10% or more of our total revenues were as follows:Percentage of Total Revenues for theThree Months Ended June 30,Six Months Ended June 30,20242023202420232Customer A18Â %*16Â %11Â %Customer B18Â %***Customer C18Â %***Customer D15Â %***Customer E*28Â %*17Â %Customer F*18Â %*11Â %Customer G*11Â %**Customer H**24Â %*Customer I***10Â %* Percentage was less than 10%Customers that each accounted for 10% or more of accounts receivable balances as of the periods presented as follows:Percentage of Accounts Receivables as ofJune 30, 2024December 31, 2023Customer A31Â %12Â %Customer D23Â %*Customer F*21Â %Customer J12Â %*Customer K*13Â %Customer L*12Â %* Percentage was less than 10% Identifiable long-lived assets by location was as follows (in thousands):June 30, 2024December 31, 2023United States$25,878Â $28,624Â X - ReferencesNo definition available. + Details Name: us-gaap_SegmentReportingAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe entire disclosure for reporting segments including data and tables. Reportable segments include those that meet any of the following quantitative thresholds a) it's reported revenue, including sales to external customers and intersegment sales or transfers is 10 percent or more of the combined revenue, internal and external, of all operating segments b) the absolute amount of its reported profit or loss is 10 percent or more of the greater, in absolute amount of 1) the combined reported profit of all operating segments that did not report a loss or 2) the combined reported loss of all operating segments that did report a loss c) its assets are 10 percent or more of the combined assets of all operating segments. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 48 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-48Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 54 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-54Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 47 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-47Reference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 54 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-54Reference 9: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 47 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-47Reference 10: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 54 -Subparagraph (e) -Publisher FASB -URI 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http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 26C -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-26CReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 26B -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-26BReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-15Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-40Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -Name Accounting Standards Codification -Publisher FASB -URI https://asc.fasb.org/280/tableOfContentReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 26 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-26Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 21 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-21Reference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 21 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-21Reference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32 + Details Name: us-gaap_SegmentReportingDisclosureTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 32 R21.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Pay vs Performance Disclosure - USD ($) $ in Thousands 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Pay vs Performance Disclosure Â Â Â Â Net loss $ (22,755) $ (11,523) $ (34,260) $ (34,140) X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 402 -Subsection v -Paragraph 1 + Details Name: ecd_PvpTable Namespace Prefix: ecd_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe portion of profit or loss for the period, net of income taxes, which is attributable to the parent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-6Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-9Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 805 -SubTopic 60 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147476176/805-60-65-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 740 -SubTopic 323 -Name Accounting Standards Codification -Section 65 -Paragraph 2 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478666/740-323-65-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(g)(1)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 323 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481687/323-10-50-3Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 28 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-28Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482765/220-10-50-6Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-3Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 815 -SubTopic 40 -Name Accounting Standards Codification -Section 65 -Paragraph 1 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480175/815-40-65-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-8Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 11 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-11Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 250 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483443/250-10-50-4Reference 17: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-10Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section 45 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479105/946-220-45-7Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(18)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph 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-Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iii)(A)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(4)(iv)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1A -Subparagraph (SX 210.13-01(a)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1AReference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1B -Subparagraph (SX 210.13-02(a)(4)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480097/470-10-S99-1BReference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 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http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 60B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482689/260-10-45-60BReference 33: http://www.xbrl.org/2003/role/disclosureRef -Topic 205 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483499/205-20-50-7Reference 34: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 230 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 35: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1AReference 36: http://www.xbrl.org/2003/role/disclosureRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482790/220-10-45-1BReference 37: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-04(22)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478524/942-220-S99-1 + Details Name: us-gaap_NetIncomeLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration XML 33 R22.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Insider Trading Arrangements 3 Months Ended Jun. 30, 2024 Trading Arrangements, by Individual Â Rule 10b5-1 Arrangement Adopted false Non-Rule 10b5-1 Arrangement Adopted false Rule 10b5-1 Arrangement Terminated false Non-Rule 10b5-1 Arrangement Terminated false X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1 + Details Name: ecd_NonRule10b51ArrAdoptedFlag Namespace Prefix: ecd_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1 + Details Name: ecd_NonRule10b51ArrTrmntdFlag Namespace Prefix: ecd_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1 + Details Name: ecd_Rule10b51ArrAdoptedFlag Namespace Prefix: ecd_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 1 + Details Name: ecd_Rule10b51ArrTrmntdFlag Namespace Prefix: ecd_ Data Type: xbrli:booleanItemType Balance Type: na Period Type: duration X - ReferencesReference 1: http://www.xbrl.org/2003/role/presentationRef -Publisher SEC -

Name Regulation S-K -Number 229 -Section 408 -Subsection a -Paragraph 2 -Subparagraph A + Details Name: ecd_TradingArrByIndTable Namespace Prefix: ecd_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 34 R23.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Basis of Presentation and Summary of Significant Accounting Policies (Policies) 6 Months Ended Jun. 30, 2024 Accounting Policies [Abstract] Â Basis of Presentation and Principles of Consolidation Basis of Presentation and Principles of ConsolidationThe accompanying unaudited condensed consolidated financial statements have been prepared in accordance with generally accepted accounting principles in the United States of America (â€œGAAPâ€) and the applicable rules and regulations of the Securities and Exchange Commission (â€œSECâ€) for interim financial information but does not include all the information and notes required by GAAP for complete financial statements. These interim unaudited condensed consolidated financial statements should be read in conjunction with the audited consolidated financial statements and notes thereto contained in our Annual Report on Form 10-K for the year ended DecemberÂ 31, 2023. The condensed consolidated balance sheet at DecemberÂ 31, 2023 has been derived from the audited consolidated financial statements at that date, but does not include all disclosures, including notes, required by GAAP for complete financial statements. The significant accounting policies used in preparation of the unaudited condensed consolidated financial statements for the three and six months ended June 30, 2024 and 2023, are consistent with those discussed in Note 2 to the audited consolidated financial statements in the Companyâ€™s 2023 Annual Report on Form 10-K and are updated below as necessary. There have been no significant changes in our significant accounting policies or critical accounting estimates since DecemberÂ 31, 2023.The unaudited condensed consolidated financial statements have been prepared on the same basis as the audited consolidated financial statements and, in the opinion of management, reflect all adjustments of a normal recurring nature considered necessary to present fairly our financial position as of JuneÂ 30, 2024 and results of operations for the interim periods presented. The interim results are not necessarily indicative of the results for any future interim period or for the entire year.The unaudited condensed consolidated financial statements include the accounts of Codexis, Inc. and its wholly owned subsidiaries. All intercompany balances and transactions have been eliminated in consolidation. Use of Estimates Use of EstimatesThe preparation of our unaudited condensed consolidated financial statements in conformity with GAAP requires us to make estimates, judgments and assumptions that may affect the reported amounts of assets, liabilities, equity, revenues and expenses and related disclosure of contingent assets and liabilities. We regularly assess these estimates which primarily affect revenue recognition, deferred revenue, inventories, valuation of equity investments, goodwill arising out of business acquisitions, accrued liabilities, stock awards, and the valuation allowances associated with deferred tax assets. Actual results could differ from those estimates and such differences may be material to the condensed consolidated financial statements. Short-term Investments Short-term InvestmentsWe classify all marketable debt securities that have effective maturities of three months or less from the date of purchase as cash equivalents and those with effective maturities of greater than three months as short-term investment securities in the condensed consolidated balance sheets. We determine the appropriate classification of our short-term investments at the time of purchase and reevaluate such designation at each balance sheet date. We have classified and accounted for our short-term investments as available-for-sale. After consideration of our risk versus reward objectives, as well as our liquidity requirements, we may sell these debt securities prior to their effective maturities. We carry these short-term investments at fair value, and report the unrealized gains and losses, net of taxes, as a component of stockholdersâ€™ equity, except for the changes in allowance for expected credit losses, which are included in â€œInterest and other expense, netâ€ in the unaudited condensed consolidated statements of operations. We determine any realized gains or losses on the sale of short-term investments on a specific identification method, and we record such gains and losses as a component of interest income.Short-term investments are reviewed periodically for allowances for credit losses and impairment. When evaluating the investments, the Company reviews factors such as the extent to which the fair value of the security is less than the amortized cost basis, adverse conditions specifically related to the security, the financial condition of the issuer, the Companyâ€™s intent to sell, and whether it would be more likely than not that the Company would be required to sell the investments before the recovery of the amortized cost basis. Impairment of Long-Lived Assets Impairment of Long-Lived AssetsWe evaluate the carrying values of long-lived assets, which include property and equipment and right-of-use assets, whenever events, changes in business circumstances or our planned use of long-lived assets indicate that their carrying amounts may not be fully recoverable or that their useful lives are no longer appropriate. If these facts and circumstances exist, we assess for recovery by comparing the carrying values of long-lived assets with the future net undiscounted cash flows expected to be generated by the asset. If such assets are considered to be impaired, the impairment to be recognized is measured by the amount by which the carrying amount of the asset exceeds the fair value of the asset. Assets Held For Sale Assets Held For SaleThe Company classifies assets as held for sale when the following conditions are met: (i) management has committed to a plan to sell, (ii) the assets are available for immediate sale in their present condition, (iii) the Company has initiated an active program to identify a buyer, (iv) it is probable that a sale will occur within one year, (v) the assets are actively marketed for sale at a reasonable price in relation to their current fair value, and (vi) there is a low likelihood of significant changes to the plan or that the plan will be withdrawn. If all of the criteria are met as of the balance sheet date, the assets are presented separately in the consolidated balance sheet as held for sale at the lower of the carrying amount or fair value less costs to sell. The assets are then no longer depreciated or amortized while classified as held for sale. Accounting Pronouncements Accounting PronouncementsRecently adopted accounting pronouncementsThere were no recent accounting pronouncements or changes in accounting pronouncements during the three and six months ended June 30, 2024, that are of significance or potential significance to us.Recently issued accounting pronouncements not yet adoptedIn March 2024, the Financial Accounting Standards Board (â€œFASBâ€) issued ASU No. 2024-02, Codification Improvements - Amendments to Remove References to the Concepts Statements. This ASU amends the FASB Accounting Standard Codification (the â€œASCâ€) to remove references to various concepts statements and impacts a variety of topics in the ASC. This ASU is effective for public companies with annual periods beginning after December 15, 2024, with early adoption permitted. If an entity adopts the amendments in an interim period, it must adopt them as of the beginning of the fiscal year that includes that interim period. We are currently evaluating the effects of the standard on our consolidated financial statements and related disclosures.In December 2023, FASB issued ASU No. 2023-09, Income Taxes (Topic 740): Improvements to Income Tax Disclosures. The amendments in the ASU require public companies, on an annual basis, to provide disclosures of specific categories in the rate reconciliation, as well as disclosure of income taxes paid disaggregated by jurisdiction. This ASU is effective for public companies with annual periods beginning after December 15, 2024, with early adoption permitted. We are currently evaluating the effects of the standard on our consolidated financial statements and related disclosures.In November 2023, FASB issued ASU No. 2023-07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures. The amendments in the ASU are intended to improve reportable segment disclosure requirements primarily through enhanced disclosures about significant segment expenses. The standard is effective for fiscal years beginning after December 15, 2023, and interim periods within fiscal years beginning after December 15, 2024, with early adoption permitted. The standard should be applied retrospectively to all prior periods presented in the financial statements. We are currently evaluating the effects of the standard on our consolidated financial statements and related disclosures.In October 2023, FASB issued ASU No. 2023-06, Disclosure Improvements: Codification Amendments in Response to the SECâ€™s Disclosure Update and Simplification Initiative. The amendments in the ASU are intended to amend certain disclosure and presentation requirements for a variety of topics within the ASC. These amendments align the requirements in the ASC to the removal of certain disclosure requirements set out in Regulation S-X and Regulation S-K, as announced by the SEC. The effective date for each amended topic in the ASC is either the date on which the SECâ€™s removal of the related disclosure requirement from Regulation S-X or Regulation S-K becomes effective, or on June 30, 2027, if the SEC has not removed the requirements by that date. Early adoption is prohibited. We are currently evaluating the effects of the standard on our consolidated financial statements and related disclosures. Segment Information Segment InformationWe previously managed our business as two business segments, Performance Enzymes and Novel Biotherapeutics. During the third and fourth quarters of 2023, we made changes to the structure of our organization in connection with the restructuring of our business that we announced in July 2023, including the discontinuation of investment in certain development programs, primarily in our biotherapeutics business, consolidation of operations to our Redwood City, California headquarters, and headcount reduction. In connection with these organizational structure changes, corresponding changes were made to how our business is managed, how results are reported internally and how our CEO, our chief operating decision maker, assesses performance and allocates resources. As a result of these changes, our previous Performance Enzymes and Novel Biotherapeutics operating segments were combined into a single reportable segment. Effective October 1, 2023, the Company's operations are managed and reported to the CEO on a consolidated basis. The CEO assesses performance and allocated resources based on the consolidated results of operations. We believe that these changes better align internal resources and external go to market activities in order to create a more efficient and effective organizational structure. Under this new organizational and reporting structure, we managed our business as one reportable segment as of DecemberÂ 31, 2023. Comparative prior period disclosures that reflected the previous two segments' information have been revised to conform to this change in our reportable segment. X - DefinitionAssets Held For Sale + ReferencesNo definition available. + Details Name: cdxs_AssetsHeldForSalePolicyTextBlock Namespace Prefix: cdxs_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_AccountingPoliciesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for basis of accounting, or basis of presentation, used to prepare the financial statements (for example, US Generally Accepted Accounting Principles, Other Comprehensive Basis of Accounting, IFRS). + ReferencesNo definition available. + Details Name: us-gaap_BasisOfAccountingPolicyPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for recognizing and measuring the impairment of long-lived assets. An entity also may disclose its accounting policy for long-lived assets to be sold. This policy excludes goodwill and intangible assets. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SAB Topic 5.CC) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480091/360-10-S99-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 05 -Paragraph 4 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482338/360-10-05-4 + Details Name: us-gaap_ImpairmentOrDisposalOfLongLivedAssetsPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for investment in financial asset. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-04(3)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477250/944-220-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(f)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(f)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(f)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 320 -Name Accounting Standards Codification -Section S99 -Paragraph 12 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477271/946-320-S99-12Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 320 -Name Accounting Standards Codification -Section S99 -Paragraph 19 -Subparagraph (2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477271/946-320-S99-19 + Details Name: us-gaap_InvestmentPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy pertaining to new accounting pronouncements that may impact the entity's financial reporting. Includes, but is not limited to, quantification of the expected or actual impact. + ReferencesNo definition available. + Details Name: us-gaap_NewAccountingPronouncementsPolicyPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for segment reporting. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 47 -Subparagraph (bb) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-47Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 29 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-29Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 54 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-54Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 36 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-36Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 47 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-47Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 29 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-29Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 29 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-29Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 29 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-29Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 29 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-29Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 29 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-29Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 29 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-29 + Details Name: us-gaap_SegmentReportingPolicyPolicyTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of accounting policy for the use of estimates in the preparation of financial statements in conformity with generally accepted accounting principles. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 9 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-9Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-4Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 11 -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-11Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 12 -SubTopic 10 -Topic 275 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-12Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-8 + Details Name: us-gaap_UseOfEstimates Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 35 R24.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue Recognition (Tables) 6 Months Ended Jun. 30, 2024 Revenue from Contract with Customer [Abstract] Â Disaggregation of Revenue The following table provides information about disaggregated revenue from contracts with customers by geographic regions. The geographic regions that are tracked are the Americas (United States, Canada, and Latin America), EMEA (Europe, Middle East, and Africa), and APAC (Australia, New Zealand, Southeast Asia, and China).Disaggregated information is as follows (in thousands):Three Months Ended June 30,Six Months Ended June 30,20242023Primary geographical markets:Americas$1,046Â $3,937Â $8,289Â $6,521Â EMEA1,967Â 8,349Â 4,539Â 11,438Â APAC4,966Â 9,037Â 12,224Â 16,346Â Total revenues$7,979Â $21,323Â $25,052Â $34,305Â

Contract with Customer The following table presents balances of contract assets, unbilled receivables, contract costs, and contract liabilities (in thousands):June 30, 2024December 31, 2023Contract assets$3,213Â $815Â Unbilled receivables$5,545Â $9,904Â Contract liabilities: deferred revenue$10,000Â $10,761Â We recognized the following revenues (in thousands):Three Months Ended June 30,Six Months Ended June 30,Revenue recognized in the period for:20242023Amounts included in contract liabilities at the beginning of the period:Performance obligations satisfied$129Â $6,107Â $500Â $7,814Â Changes in the period:Changes in the estimated transaction price allocated to performance obligations satisfied in prior periods(695)3,356Â (543)3,140Â Performance obligations satisfied from new activities in the period - contract revenue8,545Â 11,860Â 25,095Â 23,351Â Total revenues$7,979Â $21,323Â $25,052Â $34,305Â Performance Obligation, Expected Timing of Satisfaction The following table includes estimated revenue expected to be recognized in the future related to performance obligations that are unsatisfied or partially unsatisfied at the end of the reporting periods. The estimated revenue does not include contracts with original durations of one year or less, amounts of variable consideration attributable to royalties, or contract renewals that are unexercised as of JuneÂ 30, 2024.The balances in the table below are partially based on judgments involved in estimating future orders from customers subject to the exercise of material rights pursuant to respective contracts as of JuneÂ 30, 2024 (in thousands): Remainder of 2024202520262027 and ThereafterTotalProduct revenue$9,800Â $100Â $100Â $â€”Â $10,000Â X - DefinitionTabular disclosure of receivable, contract asset, and contract liability from contract with customer. Includes, but is not limited to, change in contract asset and contract liability. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-10 + Details Name: us-gaap_ContractWithCustomerAssetAndLiabilityTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of disaggregation of revenue into categories depicting how nature, amount, timing, and uncertainty of revenue and cash flows are affected by economic factor. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5 + Details Name: us-gaap_DisaggregationOfRevenueTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_RevenueFromContractWithCustomerAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of expected timing for satisfying remaining performance obligation. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b)(1) -SubTopic 10 -Topic 606 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-13 + Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 36 R25.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Net Loss per Share (Tables) 6 Months Ended Jun. 30, 2024 Earnings Per Share [Abstract] Â Shares Not Included in Computation of Diluted Net Loss Per Share The following shares were not considered in the computation of diluted net loss per share because their effect was anti-dilutive (in thousands):Â Three Months Ended June 30,Six Months Ended June 30,Â 20242023Shares issuable under the Equity Incentive Plan and ESPP12,8939,31212,8939,312Warrants(1)424â€”424â€”Total potentially dilutive securities13,3179,31213,3179,312(1) Pertains to the warrants issued in connection with the Innovatus Loan. For additional information, see Note 11, â€œDebt.â€ X - ReferencesNo definition available. + Details Name: us-gaap_EarningsPerShareAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of securities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) in the future that were not included in the computation of diluted EPS because to do so would increase EPS amounts or decrease loss per share amounts for the period presented, by antidilutive securities. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 260 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1 + Details Name: us-gaap_ScheduleOfAntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 37 R26.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Investments in Non-Marketable Securities (Tables) 6 Months Ended Jun. 30, 2024 Investments, Debt and Equity Securities [Abstract] Â Carrying Value of Non-marketable Equity Securities The following table presents the carrying value of our non-marketable equity securities (in thousands):Â June 30, 2024December 31, 2023MAI$6,693Â $6,693Â seqWell2,625Â 2,625Â Other investments in non-marketable equity securities382Â 382Â Total non-marketable equity securities$9,700Â $9,700Â X - DefinitionTabular disclosure of investment in equity security without readily determinable fair value. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 321 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479536/321-10-50-3Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 321 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479536/321-10-50-3Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 321 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479536/321-10-50-3 + Details Name: us-gaap_EquitySecuritiesWithoutReadilyDeterminableFairValueTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_InvestmentsDebtAndEquitySecuritiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 38 R27.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Fair Value Measurements (Tables) 6 Months Ended Jun. 30, 2024 Fair Value Disclosures [Abstract] Â Summary of Financial Instruments Measured at Fair Value on a Recurring Basis The following tables show the Companyâ€™s cash, cash equivalents, and short-term investments by significant investment category as of JuneÂ 30, 2024 and DecemberÂ 31, 2023 (in thousands):June 30, 2024Amortized CostUnrealized GainsUnrealized LossesFair ValueCash and Cash EquivalentsShort-term InvestmentsCash$6,195Â $â€”Â $â€”Â $6,195Â $6,195Â $â€”Â Level 1:Money market funds12,400Â â€”Â â€”Â 12,400Â 12,400Â â€”Â Level 2(1):Commercial paper11,360Â â€”Â (6)11,354Â â€”Â 11,354Â Corporate debt3,934Â â€”Â (5)3,929Â â€”Â 3,929Â U.S. treasury securities39,333Â â€”Â (12)39,321Â â€”Â 39,321Â Subtotal54,627Â â€”Â (23)54,604Â â€”Â 54,604Â Total$73,222Â $â€”Â (23)73,199Â $18,595Â $54,604Â (1) The valuation techniques used to measure the fair values of the Companyâ€™s Level 2 financial instruments uses inputs that are either directly or indirectly observable for the asset through correlation with market data at the measurement date and for the duration of the instrumentâ€™s anticipated life. December 31, 2023Amortized CostUnrealized GainsUnrealized LossesFair ValueCash and Cash EquivalentsShort-term InvestmentsCash$8,742Â $â€”Â $â€”Â $8,742Â $8,742Â $â€”Â Level 1:Money market funds56,374Â â€”Â â€”Â 56,374Â 56,374Â â€”Â Total$65,116Â $â€”Â $â€”Â $65,116Â $65,116Â $â€”Â X - DefinitionTabular disclosure of assets, including [financial] instruments measured at fair value that are classified in stockholders' equity, if any, by class that are measured at fair value on a recurring basis. The disclosures contemplated herein include the fair value measurements at the reporting date by the level within the fair value hierarchy in which the fair value measurements in their entirety fall, segregating fair value measurements using quoted prices in active markets for identical assets (Level 1), significant other observable inputs (Level 2), and significant unobservable inputs (Level 3). + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2 + Details Name: us-gaap_FairValueAssetsMeasuredOnRecurringBasisTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_FairValueDisclosuresAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 39 R28.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Balance Sheets Details (Tables) 6 Months Ended Jun. 30, 2024 Balance Sheets Details [Abstract] Â Schedule of Inventory Components Inventories consisted of the following (in thousands):June 30, 2024December 31, 2023Raw materials$108Â $108Â Work-in-process6Â 7Â Finished goods2,118Â 2,570Â Total Inventories$2,232Â $2,685Â Schedule of Property and Equipment, Net Property and equipment, net consisted of the following (in thousands):June 30, 2024December 31, 2023Laboratory equipment$36,547Â $37,216Â Leasehold improvements11,960Â 11,912Â Computer equipment and software2,651Â 2,565Â Office equipment and furniture1,116Â 1,469Â Construction in progress1,513Â 1,636Â Property and equipment53,787Â 54,798Â Less: accumulated depreciation and amortization(39,821)(39,311)Property and equipment, net$13,966Â $15,487Â Depreciation expense included in both research and development expenses and selling, general and administrative expenses in the unaudited condensed consolidated statements of operations was as follows (in thousands):Three Months Ended June 30,Six Months Ended June 30,20242023Research and development$1,020Â $1,242Â $2,052Â $2,486Â Selling, general and administrative219Â 238Â 439Â 460Â Total depreciation expense$1,239Â $1,480Â $2,491Â $2,946Â Schedule of Other Accrued Liabilities Other accrued liabilities consisted of the following (in thousands):June 30, 2024December 31, 2023Accrued professional and outside service fees$2,766Â $2,330Â Accrued purchases 2,252Â 1,402Â Other399Â 1,003Â Total other accrued liabilities$5,417Â $4,735Â X - Definition-- None. No documentation exists for this element. -- + ReferencesNo definition available. + Details Name: cdxs_BalanceSheetsDetailsAbstract Namespace Prefix: cdxs_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of physical assets used in the normal conduct of business and not intended for resale. Includes, but is not limited to, balances by class of assets, depreciation and depletion expense and method used, including composite depreciation, and accumulated deprecation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1 + Details Name: us-gaap_PropertyPlantAndEquipmentTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the components of accrued liabilities. + ReferencesNo definition available. + Details Name: us-gaap_ScheduleOfAccruedLiabilitiesTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the carrying amount as of the balance sheet date of merchandise, goods, commodities, or supplies held for future sale or to be used in manufacturing, servicing or production process. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(c)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 210 -SubTopic 10 -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483489/210-10-50-1 + Details Name: us-gaap_ScheduleOfInventoryCurrentTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 40 R29.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock-based Compensation (Tables) 6 Months Ended Jun. 30, 2024 Share-Based Payment Arrangement [Abstract] Â Schedule of Stock-based Compensation Expense Stock-based compensation expense is included in the unaudited condensed consolidated statements of operations as follows (in thousands):Â Three Months Ended June 30,Six Months Ended June 30,Â 20242023Cost of product revenue$101Â $83Â $216Â $212Â Research and development 641Â 806Â 1,461Â 1,528Â Selling, general and administrative3,940Â 1,827Â 6,176Â 3,785Â Total$4,682Â $2,716Â $7,853Â $5,525Â Schedule of Stock-based Compensation Expense by Security Types The following table presents total stock-based compensation expense by security type included in the unaudited condensed consolidated statements of operations (in thousands):Â Three Months Ended June 30,Six Months Ended June 30,Â 20242023Stock options$2,117Â $1,096Â $3,631Â $2,018Â RSUs and restricted stock awards (â€œRSAsâ€)1,152Â 1,373Â 2,469Â 2,499Â Performance-contingent restricted stock units (â€œPSUsâ€)â€”Â 279Â 247Â 1,116Â Performance based options (â€œPBOsâ€)1,341Â (32)1,357Â (108)ESPP72Â â€”Â 149Â â€”Â Total$4,682Â $2,716Â $7,853Â $5,525Â X - ReferencesNo definition available. + Details Name: us-gaap_DisclosureOfCompensationRelatedCostsSharebasedPaymentsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of allocation of amount expensed and capitalized for award under share-based payment arrangement to statement of income or comprehensive income and statement of financial position. Includes, but is not limited to, corresponding line item in financial statement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Subparagraph (h)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ScheduleOfEmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionDisclosure of the number and weighted-average grant date fair value for restricted stock and restricted stock units that were outstanding at the beginning and end of the year, and the number of restricted stock and restricted stock units that were granted, vested, or forfeited during the year. + ReferencesNo definition available. + Details Name: us-gaap_ScheduleOfSharebasedCompensationRestrictedStockAndRestrictedStockUnitsActivityTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 41 R30.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Commitments and Contingencies (Tables) 6 Months Ended Jun. 30, 2024 Commitments and Contingencies Disclosure [Abstract] Â Lease Cost Three Months Ended June 30,Six Months Ended June 30,Â 20242023Operating lease costs(1)$1,033Â $1,830Â $2,065Â $3,660Â (1) The Company had no variable lease costs.Other information:Operating LeasesWeighted-average remaining lease term (in years)3.4 yearsWeighted-average discount rate6.6Â %Six Months Ended June 30,Cash paid (in thousands):20242023Operating cash flows from operating leases$2,357Â $3,775Â Operating Lease Maturity As of JuneÂ 30, 2024, our maturity analysis of annual undiscounted cash flows of the non-cancellable operating leases are as follows (in thousands):Years Ending December 31,Operating Leases2024 (remaining 6 months)$2,369Â 20254,868Â 20265,014Â 20272,533Â 2028760Â Thereafter318Â Total minimum lease payments15,862Â Less: imputed interest1,692Â Lease obligations$14,170Â Reconciliation of operating lease liabilities as shown within the unaudited condensed consolidated balance sheets (in thousands):Current portion of lease obligations - Operating leases$3,979Â Long-term lease obligations - Operating leases10,191Â Total operating lease liabilities$14,170Â Schedule of Supply and Service Commitments The following table provides quantitative data regarding our other commitments. Future minimum payments reflect amounts that we expect to pay including potential obligations under services agreements subject to risk of cancellation by us (in thousands):Payments Due by PeriodTotal2024 (Remaining 6 Months)2025 and ThereafterFacility maintenance agreement$281Â $281Â $â€”Â X - ReferencesNo definition available. + Details Name: us-gaap_CommitmentsAndContingenciesDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of lessee's lease cost. Includes, but is not limited to, interest expense for finance lease, amortization of right-of-use asset for finance lease, operating lease cost, short-term lease cost, variable lease cost and sublease income. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_LeaseCostTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of undiscounted cash flows of lessee's operating lease liability. Includes, but is not limited to, reconciliation of undiscounted cash flows to operating lease liability recognized in statement of financial position. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityMaturityTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of arrangements in which the entity has committed resources to supply goods or services to a customer. May include identification of the goods or services to be furnished, identity of the purchasing party, pricing, effects on pricing for failing to deliver the [minimum] quantities required to be furnished, cancellation rights, and termination provisions. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(25)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_SupplyCommitmentTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType

Balance Type: na Period Type: duration XML 42 R31.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Debt (Tables) 6 Months Ended Jun. 30, 2024 Debt Disclosure [Abstract] Â Schedule of Long-Term Debt Instruments The Company accounts for the amortization of the debt discount and issuance costs utilizing the effective interest method. Long-term debt consisted of the following at JuneÂ 30, 2024 (in thousands):June 30, 2024Face value of debt$30,000Â Add: payment in-kind interest180Â Add: amortized exit fee52Â Less: unamortized debt discount(1,261)Less: unamortized debt issuance costs(605)Total long-term debt$28,365Â Schedule of Maturities of Long-Term Debt The future principal payments under the Innovatus Loan are as follows (in thousands):Years Ending December 31,2024$â€”Â 2025â€”Â 2026â€”Â 202713,264Â 202815,917Â 20292,653Â Total principal payments31,834Â Add: amortized exit fee52Â Less: uncapitalized payment in-kind interest(1,655)Less: unamortized debt issuance fee(1,261)Less: unamortized debt issuance costs(605)Total long-term debt$28,365Â X - ReferencesNo definition available. + Details Name: us-gaap_DebtDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of long-debt instruments or arrangements, including identification, terms, features, collateral requirements and other information necessary to a fair presentation. These are debt arrangements that originally required repayment more than twelve months after issuance or greater than the normal operating cycle of the entity, if longer. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69E -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69EReference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-04(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 10 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 942 -SubTopic 470 -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477734/942-470-50-3Reference 8: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 505 -SubTopic 10 -Section 50 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-8Reference 9: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-6Reference 10: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 7 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-7 + Details Name: us-gaap_ScheduleOfDebtInstrumentsTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of maturity and sinking fund requirement for long-term debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 470 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-1 + Details Name: us-gaap_ScheduleOfMaturitiesOfLongTermDebtTableTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration XML 43 R32.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Segment, Geographical and Other Revenue Information (Tables) 6 Months Ended Jun. 30, 2024 Segment Reporting [Abstract] Â Schedule of Customers that Contributed 10% or More of Total Accounts Receivable Significant CustomersCustomers that each accounted for 10% or more of our total revenues were as follows:Percentage of Total Revenues for theThree Months Ended June 30,Six Months Ended June 30,20242023202420232Customer A18Â %*16Â %11Â %Customer B18Â %***Customer C18Â %***Customer D15Â %***Customer E*28Â %*17Â %Customer F*18Â %*11Â %Customer G*11Â %**Customer H**24Â %*Customer I***10Â %* Percentage was less than 10%Customers that each accounted for 10% or more of accounts receivable balances as of the periods presented as follows:Percentage of Accounts Receivables as ofJune 30, 2024December 31, 2023Customer A31Â %12Â %Customer D23Â %*Customer F*21Â %Customer J12Â %*Customer K*13Â %Customer L*12Â %* Percentage was less than 10% Schedule of Long-Lived Assets by Geographical Area Identifiable long-lived assets by location was as follows (in thousands):June 30, 2024December 31, 2023United States$25,878Â $28,624Â X - DefinitionTabular disclosure of the names of foreign countries in which material long-lived assets other than financial instruments, long-term customer relationships of a financial institution, mortgage and other servicing rights, deferred policy acquisition costs, and deferred tax assets are located, and amount of such long-lived assets located in that country or foreign geographic area. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41 + Details Name: us-gaap_ScheduleOfEntityWideDisclosureOnGeographicAreasLongLivedAssetsInIndividualForeignCountriesByCountryTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - DefinitionTabular disclosure of the nature of a concentration, a benchmark to which it is compared, and the percentage that the risk is to the benchmark. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 825 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 21 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-21Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 825 -SubTopic 10 -Section 50 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-20Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 18 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-18Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-20Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 16 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-16Reference 6: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 21 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-21 + Details Name: us-gaap_SchedulesOfConcentrationOfRiskByRiskFactorTextBlock Namespace Prefix: us-gaap_ Data Type: dtr-types:textBlockItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_SegmentReportingAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 44 R33.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Description of Business (Details) - segment 12 Months Ended Dec. 31, 2023 Dec. 31, 2022 Organization, Consolidation and Presentation of Financial Statements [Abstract] Â Â Number of reportable segments 1 2 X - DefinitionNumber of segments reported by the entity. A reportable segment is a component of an entity for which there is an accounting requirement to report separate financial information on that component in the entity's financial statements. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 47 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-47Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 54 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-54Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-18 + Details Name: us-gaap_NumberOfReportableSegments Namespace Prefix: us-gaap_ Data Type: xbrli:integerItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_OrganizationConsolidationAndPresentationOfFinancialStatementsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 45 R34.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue Recognition - Disaggregation of Revenue (Details) - USD ($) $ in Thousands 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Disaggregation of Revenue [Line Items] Â Â Â Â Total revenues $ 7,979 $ 21,323 $ 25,052 $ 34,305 Americas Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Total revenues 1,046 3,937 8,289 6,521 EMEA Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Total revenues 1,967 8,349 4,539 11,438 APAC Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Total revenues $ 4,966 $ 9,037 $ 12,224 $ 16,346 X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91 + Details Name: us-gaap_DisaggregationOfRevenueLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount, excluding tax collected from customer, of revenue from satisfaction of performance obligation by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 270 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482964/270-10-50-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (ee) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 4: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 5: http://fasb.org/us-gaap/role/ref/otherTransitionRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 32 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-32Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 924 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 11.L) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479941/924-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 30 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-30Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 40 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-40Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 22 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-22Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-4 + Details Name: us-gaap_RevenueFromContractWithCustomerExcludingAssessedTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - Details Name: srt_StatementGeographicalAxis=srt_AmericasMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementGeographicalAxis=us-gaap_EMEAMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_StatementGeographicalAxis=cdxs_APACMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 46 R35.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue Recognition - Contracts with Customer (Details) - USD ($) $ in Thousands Jun. 30, 2024 Dec. 31, 2023 Revenue from Contract with Customer [Abstract] Â Â Contract assets $ 3,213 $ 815 Unbilled receivables 5,545 9,904 Contract liabilities: deferred revenue $ 10,000 $ 10,761 X - DefinitionAmount, before allowance for credit loss, of right to consideration in exchange for good or service transferred to customer when right is conditioned on something other than passage of time, classified as current. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-1Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-3 + Details Name: us-gaap_ContractWithCustomerAssetGrossCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of obligation to transfer good or service to customer for which consideration has been received or is receivable. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-8Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479837/606-10-45-2 + Details Name: us-gaap_ContractWithCustomerLiability Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_RevenueFromContractWithCustomerAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionUnbilled amounts due for services rendered or to be rendered, actions taken or to be taken, or a promise to refrain from taking certain actions in accordance with the terms of a legally binding agreement between the entity and, at a minimum, one other party. An example would be amounts associated with contracts or programs where the recognized revenue for performance thereunder exceeds the amounts billed under the terms thereof as of the date of the balance sheet. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 912 -SubTopic 310 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478345/912-310-45-2 + Details Name: us-gaap_UnbilledContractsReceivable Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 47 R36.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue Recognition - Narrative (Details) - USD ($) 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Dec. 31, 2023 Disaggregation of Revenue [Line Items] Â Â Â Â Â Impairment charges related to contract assets $ 0 $ 0 $ 0 $ 0 Â Short-Term Unbilled Receivables Â Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Â Unbilled receivables, not billable 4,400,000 Â 4,400,000 Â $ 9,100,000 Long-Term Unbilled Receivables Â Â Â Â Â Disaggregation of Revenue [Line Items] Â Â Â Â Â Unbilled receivables, not billable $ 1,200,000 Â $ 1,200,000 Â $ 800,000 X - DefinitionAmount of expense (reversal of expense) for expected credit loss on right to consideration in exchange for good or service transferred to customer when right is conditioned on something other than passage of time. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479319/326-20-50-13Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -

Section 50 -Paragraph 10 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-10Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-4 + Details Name: us-gaap_ContractWithCustomerAssetCreditLossExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91 + Details Name: us-gaap_DisaggregationOfRevenueLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of unbilled receivables under long-term contracts that have not been billed and were not billable. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(3)(c)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_UnbilledReceivablesNotBillableAtBalanceSheetDate Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - Details Name: us-gaap_AccountsNotesLoansAndFinancingReceivableByReceivableTypeAxis=cdxs_ShortTermUnbilledReceivablesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AccountsNotesLoansAndFinancingReceivableByReceivableTypeAxis=cdxs_LongTermUnbilledReceivablesMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 48 R37.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue Recognition - Revenue Recognized During Period (Details) - USD ($) $ in Thousands 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Amounts included in contract liabilities at the beginning of the period: Â Â Â Â Performance obligations satisfied $ 129 $ 6,107 $ 500 $ 7,814 Changes in the period: Â Â Â Â Â Changes in the estimated transaction price allocated to performance obligations satisfied in prior periods (695) 3,356 (543) 3,140 Performance obligations satisfied from new activities in the period - contract revenue 8,545 11,860 25,095 23,351 Total revenues $ 7,979 $ 21,323 $ 25,052 $ 34,305 X - DefinitionContract with Customer, Liability, New Activities, Performance Obligation Satisfied, Revenue Recognition + ReferencesNo definition available. + Details Name: cdxs_ContractwithCustomerLiabilityNewActivitiesPerformanceObligationSatisfiedRevenueRecognition Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_ChangeInContractWithCustomerAssetAndLiabilityAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_ChangeInContractWithCustomerLiabilityAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of revenue recognized arising from contract liability from change in timeframe for performance obligation to be satisfied. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-10 + Details Name: us-gaap_ContractWithCustomerLiabilityChangeInTimeframePerformanceObligationSatisfiedRevenueRecognized Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of increase (decrease) in revenue recognized for cumulative catch-up adjustment from change in estimate of transaction price which (increases) decreases obligation to transfer good or service to customer for which consideration from customer has been received or is due. Includes, but is not limited to, change in assessment of whether estimate of variable consideration is constrained. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 10 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-10 + Details Name: us-gaap_ContractWithCustomerLiabilityCumulativeCatchUpAdjustmentToRevenueChangeInEstimateOfTransactionPrice Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of revenue recognized that was previously included in balance of obligation to transfer good or service to customer for which consideration from customer has been received or is due. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 8 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-8 + Details Name: us-gaap_ContractWithCustomerLiabilityRevenueRecognized Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration XML 49 R38.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Revenue Recognition - Performance Obligation (Details) $ in Thousands Jun. 30, 2024 USD ($) Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2024-07-01 Â Disaggregation of Revenue [Line Items] Â Expected timing of satisfaction, period 6 months Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2025-01-01 Â Disaggregation of Revenue [Line Items] Â Expected timing of satisfaction, period 1 year Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2026-01-01 Â Disaggregation of Revenue [Line Items] Â Expected timing of satisfaction, period 1 year Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2027-01-01 Â Disaggregation of Revenue [Line Items] Â Expected timing of satisfaction, period Product revenue Â Disaggregation of Revenue [Line Items] Â Performance obligation $ 10,000 Product revenue | Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2024-07-01 Â Disaggregation of Revenue [Line Items] Â Performance obligation $ 9,800 Expected timing of satisfaction, period 6 months Product revenue | Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2025-01-01 Â Disaggregation of Revenue [Line Items] Â Performance obligation $ 100 Expected timing of satisfaction, period 1 year Product revenue | Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2026-01-01 Â Disaggregation of Revenue [Line Items] Â Performance obligation $ 100 Expected timing of satisfaction, period 1 year Product revenue | Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2027-01-01 Â Disaggregation of Revenue [Line Items] Â Performance obligation $ 0 Expected timing of satisfaction, period Research and development revenue | Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2024-07-01 Â Disaggregation of Revenue [Line Items] Â Expected timing of satisfaction, period 6 months Research and development revenue | Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2025-01-01 Â Disaggregation of Revenue [Line Items] Â Expected timing of satisfaction, period 1 year Research and development revenue | Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2026-01-01 Â Disaggregation of Revenue [Line Items] Â Expected timing of satisfaction, period 1 year Research and development revenue | Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]: 2027-01-01 Â Disaggregation of Revenue [Line Items] Â Expected timing of satisfaction, period X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-5Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91Reference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 606 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 91 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479777/606-10-55-91 + Details Name: us-gaap_DisaggregationOfRevenueLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of transaction price allocated to performance obligation that has not been recognized as revenue. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -SubTopic 10 -Topic 606 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-13 + Details Name: us-gaap_RevenueRemainingPerformanceObligation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPeriod in which remaining performance obligation is expected to be recognized as revenue, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b)(1) -SubTopic 10 -Topic 606 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479806/606-10-50-13 + Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionPeriod1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: instant X - Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis=2024-07-01 Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis=2025-01-01 Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis=2026-01-01 Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis=2027-01-01 Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=us-gaap_ProductMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_ProductOrServiceAxis=cdxs_ResearchandDevelopmentRevenueMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 50 R39.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Net Loss per Share - Shares Not Included in Computation of Diluted Net Loss Per Share (Details) - shares shares in Thousands 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Antidilutive Securities Excluded from Computation of Earnings Per Share [Line Items] Â Â Â Â Total shares excluded as anti-dilutive (shares) 13,317 9,312 13,317 9,312 Shares issuable under the Equity Incentive Plan and ESPP Â Â Â Â Antidilutive Securities Excluded from Computation of Earnings Per Share [Line Items] Â Â Â Â Total shares excluded as anti-dilutive (shares) 12,893 9,312 12,893 9,312 Warrant Â Â Â Â Antidilutive Securities Excluded from Computation of Earnings Per Share [Line Items] Â Â Â Â Total shares excluded as anti-dilutive (shares) 424 0 424 0 X - DefinitionSecurities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) or earnings per unit (EPU) in the future that were not included in the computation of diluted EPS or EPU because to do so would increase EPS or EPU amounts or decrease loss per share or unit amounts for the period presented. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 260 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482662/260-10-50-1 + Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareAmount Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareByAntidilutiveSecuritiesAxis=us-gaap_StockCompensationPlanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareByAntidilutiveSecuritiesAxis=us-gaap_WarrantMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 51 R40.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Investments in Non-Marketable Securities - Narrative (Details) - USD ($) 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Investments, Debt and Equity Securities [Abstract] Â Â Â Â Unrealized or realized gains or losses $ 0 $ 0 $ 0 $ 0 X - DefinitionNon Marketable Debt Securities Without Readily Determinable Fair Value Annual Amount + ReferencesNo definition available. + Details Name: cdxs_NonMarketableDebtSecuritiesWithoutReadilyDeterminableFairValueAnnualAmount Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_InvestmentsDebtAndEquitySecuritiesAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 52 R41.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Investments in Non-Marketable Securities - Carrying Value and Fair Value of Securities (Details) - USD ($) $ in Thousands Jun. 30, 2024 Dec. 31, 2023 Marketable Securities [Line Items] Â Â Total non-marketable equity securities $ 9,700 $ 9,700 MAI Â Â Marketable Securities [Line Items] Â Â Total non-marketable equity securities 6,693 6,693 seqWell Â Â Marketable Securities [Line Items] Â Â Total non-marketable equity securities 2,625 2,625 Other investments in non-marketable equity securities Â Â Marketable Securities [Line Items] Â Â Total non-marketable equity securities $ 382 $ 382 X - DefinitionAmount of investment in equity security without readily determinable fair value. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 321 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479536/321-10-50-3 + Details Name: us-gaap_EquitySecuritiesWithoutReadilyDeterminableFairValueAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_MarketableSecuritiesLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_SecurityOwnedNotReadilyMarketableAxis=cdxs_MolecularAssembliesIncMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_SecurityOwnedNotReadilyMarketableAxis=cdxs_SeqWellMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_SecurityOwnedNotReadilyMarketableAxis=us-gaap_OtherAggregatedInvestmentsMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 53 R42.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Fair Value Measurements - Summary of Financial Instruments Measured at Fair Value on a Recurring Basis (Details) - USD ($) $ in Thousands Jun. 30, 2024 Dec. 31, 2023 Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Cash $ 6,195 $ 8,742 Unrealized Gains 0 0 Unrealized Losses (23) 0 Total 73,222 65,116 Total 73,199 65,116 Fair Value, Inputs, Level 1 | Money market funds Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Amortized Cost 12,400 56,374 Unrealized Gains 0 0 Unrealized Losses 0 0 Fair Value 12,400 56,374 Fair Value, Inputs, Level 2 Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Amortized Cost 54,627 Â Unrealized Gains 0 Â Unrealized Losses (23) Â Fair Value 54,604 Â Fair Value, Inputs, Level 2 | Commercial paper Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Amortized Cost 11,360 Â Unrealized Gains 0 Â Unrealized Losses (6) Â Fair Value 11,354 Â

Fair Value, Inputs, Level 2 | Corporate debt Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Amortized Cost 3,934 Â Unrealized Gains 0 Â Unrealized Losses (5) Â Fair Value 3,929 Â Fair Value, Inputs, Level 2 | U.S. treasury securities Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Amortized Cost 39,333 Â Unrealized Gains 0 Â Unrealized Losses (12) Â Fair Value 39,321 Â Cash and Cash Equivalents Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Cash 6,195 8,742 Total 18,595 65,116 Cash and Cash Equivalents | Fair Value, Inputs, Level 1 | Money market funds Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Fair Value 12,400 56,374 Cash and Cash Equivalents | Fair Value, Inputs, Level 2 Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Fair Value 0 Â Cash and Cash Equivalents | Fair Value, Inputs, Level 2 | Commercial paper Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Fair Value 0 Â Cash and Cash Equivalents | Fair Value, Inputs, Level 2 | Corporate debt Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Fair Value 0 Â Cash and Cash Equivalents | Fair Value, Inputs, Level 2 | U.S. treasury securities Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Fair Value 0 Â Short-term Investments Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Cash 0 0 Total 54,604 0 Short-term Investments | Fair Value, Inputs, Level 1 | Money market funds Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Fair Value 0 $ 0 Short-term Investments | Fair Value, Inputs, Level 2 Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Fair Value 54,604 Â Short-term Investments | Fair Value, Inputs, Level 2 | Commercial paper Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Fair Value 11,354 Â Short-term Investments | Fair Value, Inputs, Level 2 | Corporate debt Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Fair Value 3,929 Â Short-term Investments | Fair Value, Inputs, Level 2 | U.S. treasury securities Â Â Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Fair Value $ 39,321 Â X - DefinitionCash, Cash Equivalents And Short Term Investments, Amortized Cost + ReferencesNo definition available. + Details Name: cdxs_CashCashEquivalentsAndShortTermInvestmentsAmortizedCost Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount, before tax, of unrealized gain in accumulated other comprehensive income (AOCI) on investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-2 + Details Name: us-gaap_AvailableForSaleDebtSecuritiesAccumulatedGrossUnrealizedGainBeforeTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, before tax, of unrealized loss in accumulated other comprehensive income (AOCI) on investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-2 + Details Name: us-gaap_AvailableForSaleDebtSecuritiesAccumulatedGrossUnrealizedLossBeforeTax Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmortized cost of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479130/326-30-45-1 + Details Name: us-gaap_AvailableForSaleDebtSecuritiesAmortizedCostBasis Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale). + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 103 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-103Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 5: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (bbb)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (aa) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-2Reference 8: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481830/320-10-45-1Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479130/326-30-45-1 + Details Name: us-gaap_AvailableForSaleSecuritiesDebtSecurities Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of currency on hand as well as demand deposits with banks or financial institutions. Includes other kinds of accounts that have the general characteristics of demand deposits. Excludes cash and cash equivalents within disposal group and discontinued operation. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 946 -SubTopic 830 -Name Accounting Standards Codification -Section 55 -Paragraph 12 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479168/946-830-55-12Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.6-04(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479170/946-210-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 210 -Name Accounting Standards Codification -Section 45 -Paragraph 21 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477796/946-210-45-21Reference 6: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Name Accounting Standards Codification -Section 45 -Paragraph 20 -SubTopic 210 -Topic 946 -Publisher FASB -URI https://asc.fasb.org/1943274/2147477796/946-210-45-20 + Details Name: us-gaap_Cash Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionCash includes currency on hand as well as demand deposits with banks or financial institutions. It also includes other kinds of accounts that have the general characteristics of demand deposits in that the customer may deposit additional funds at any time and effectively may withdraw funds at any time without prior notice or penalty. Cash equivalents, excluding items classified as marketable securities, include short-term, highly liquid Investments that are both readily convertible to known amounts of cash, and so near their maturity that they present minimal risk of changes in value because of changes in interest rates. Generally, only investments with original maturities of three months or less qualify under that definition. Original maturity means original maturity to the entity holding the investment. For example, both a three-month US Treasury bill and a three-year Treasury note purchased three months from maturity qualify as cash equivalents. However, a Treasury note purchased three years ago does not become a cash equivalent when its remaining maturity is three months. Short-term investments, exclusive of cash equivalents, generally consist of marketable securities intended to be sold within one year (or the normal operating cycle if longer) and may include trading securities, available-for-sale securities, or held-to-maturity securities (if maturing within one year), as applicable. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(9)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CashCashEquivalentsAndShortTermInvestments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-3 + Details Name: us-gaap_FairValueAssetsAndLiabilitiesMeasuredOnRecurringAndNonrecurringBasisLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_FairValueByFairValueHierarchyLevelAxis=us-gaap_FairValueInputsLevel1Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FinancialInstrumentAxis=us-gaap_MoneyMarketFundsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FairValueByFairValueHierarchyLevelAxis=us-gaap_FairValueInputsLevel2Member Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FinancialInstrumentAxis=us-gaap_CommercialPaperMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FinancialInstrumentAxis=us-gaap_CorporateDebtSecuritiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_FinancialInstrumentAxis=us-gaap_USTreasurySecuritiesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_BalanceSheetLocationAxis=us-gaap_CashAndCashEquivalentsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_BalanceSheetLocationAxis=us-gaap_ShortTermInvestmentsMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 54 R43.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Fair Value Measurements - Narrative (Details) - Convertible Debt - USD ($) 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Line Items] Â Â Â Â Credit losses $ 0 $ 0 $ 0 $ 0 Other-than-temporary impairment losses $ 0 $ 0 $ 0 $ 0 X - DefinitionAmount of unrealized loss on investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale). + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 320 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481800/320-10-50-2 + Details Name: us-gaap_AvailableForSaleDebtSecuritiesGrossUnrealizedLoss Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of writeoff of allowance for credit loss on investment in debt security measured at fair value with change in fair value recognized in other comprehensive income (available-for-sale). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 326 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 9 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479106/326-30-50-9 + Details Name: us-gaap_DebtSecuritiesAvailableForSaleAllowanceForCreditLossWriteoff Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 100 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482078/820-10-55-100Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 820 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482106/820-10-50-3 + Details Name: us-gaap_FairValueAssetsAndLiabilitiesMeasuredOnRecurringAndNonrecurringBasisLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_SecurityOwnedNotReadilyMarketableAxis=us-gaap_ConvertibleDebtMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 55 R44.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Balance Sheets Details - Inventories (Details) - USD ($) $ in Thousands Jun. 30, 2024 Dec. 31, 2023 Schedule of Inventory Components Â Â Raw materials $ 108 $ 108 Work-in-process 6 7 Finished goods 2,118 2,570 Total Inventories $ 2,232 $ 2,685 X - DefinitionAmount before valuation and LIFO reserves of completed merchandise or goods expected to be sold within one year or operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryFinishedGoods Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount after valuation and LIFO reserves of inventory expected to be sold, or consumed within one year or operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_InventoryNetAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount before valuation and LIFO reserves of raw materials expected to be sold, or consumed within one year or operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)(4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryRawMaterials Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount before valuation and LIFO reserves of merchandise or goods in the production process expected to be completed within one year or operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(6)(a)(3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_InventoryWorkInProcess Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 56 R45.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Balance Sheets Details - Narrative (Details) - USD ($) $ in Millions Jun. 30, 2024 Dec. 31, 2023 Other Liabilities Disclosure [Abstract] Â Â Prepaid expense, current $ 2.1 $ 4.6 Asset, held-for-sale, not part of disposal group 0.1 Â Other assets, current $ 0.9 $ 0.6 X - DefinitionAmount of assets held-for-sale that are not part of a disposal group. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -

Section 15 -Paragraph 4 -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482309/360-10-15-4 + Details Name: us-gaap_AssetsHeldForSaleNotPartOfDisposalGroup Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of current assets classified as other. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_OtherAssetsCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_OtherLiabilitiesDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of asset related to consideration paid in advance for costs that provide economic benefits within a future period of one year or the normal operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (g) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483467/210-10-45-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(7)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 340 -SubTopic 10 -Name Accounting Standards Codification -Section 05 -Paragraph 5 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482955/340-10-05-5Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 340 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483032/340-10-45-1 + Details Name: us-gaap_PrepaidExpenseCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 57 R46.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Balance Sheets Details - Property and Equipment, net (Details) - USD ($) $ in Thousands 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Dec. 31, 2023 Property, Plant and Equipment [Line Items] Â Â Â Â Â Property and equipment $ 53,787 Â $ 53,787 Â $ 54,798 Less: accumulated depreciation and amortization (39,821) Â (39,821) Â (39,311) Property and equipment, net 13,966 Â 13,966 Â 15,487 Depreciation 1,239 $ 1,480 2,491 $ 2,946 Â Research and development Â Â Â Â Â Property, Plant and Equipment [Line Items] Â Â Â Â Â Depreciation 1,020 1,242 2,052 2,486 Â Selling, general and administrative Â Â Â Â Â Property, Plant and Equipment [Line Items] Â Â Â Â Â Depreciation 219 $ 238 439 $ 460 Â Laboratory equipment Â Â Â Â Â Property, Plant and Equipment [Line Items] Â Â Â Â Â Property and equipment 36,547 Â 36,547 Â 37,216 Leasehold improvements Â Â Â Â Â Property, Plant and Equipment [Line Items] Â Â Â Â Â Property and equipment 11,960 Â 11,960 Â 11,912 Computer equipment and software Â Â Â Â Â Property, Plant and Equipment [Line Items] Â Â Â Â Â Property and equipment 2,651 Â 2,651 Â 2,565 Office equipment and furniture Â Â Â Â Â Property, Plant and Equipment [Line Items] Â Â Â Â Â Property and equipment 1,116 Â 1,116 Â 1,469 Construction in progress Â Â Â Â Â Property, Plant and Equipment [Line Items] Â Â Â Â Â Property and equipment $ 1,513 Â $ 1,513 Â $ 1,636 X - DefinitionAmount of accumulated depreciation, depletion and amortization for physical assets used in the normal conduct of business to produce goods and services. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(14)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 360 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1 + Details Name: us-gaap_AccumulatedDepreciationDepletionAndAmortizationPropertyPlantAndEquipment Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionThe amount of expense recognized in the current period that reflects the allocation of the cost of tangible assets over the assets' useful lives. Includes production and non-production related depreciation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (b) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 360 -SubTopic 10 -Section 50 -Paragraph 1 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1 + Details Name: us-gaap_Depreciation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount before accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(13)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 360 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1 + Details Name: us-gaap_PropertyPlantAndEquipmentGross Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-7A + Details Name: us-gaap_PropertyPlantAndEquipmentLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 360 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482099/360-10-50-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 7A -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-7AReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 852 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 10 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481372/852-10-55-10Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 942 -SubTopic 360 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478451/942-360-50-1 + Details Name: us-gaap_PropertyPlantAndEquipmentNet Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - Details Name: us-gaap_IncomeStatementLocationAxis=us-gaap_ResearchAndDevelopmentExpenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementLocationAxis=us-gaap_SellingGeneralAndAdministrativeExpensesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=cdxs_LaboratoryEquipmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=us-gaap_LeaseholdImprovementsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=us-gaap_ComputerEquipmentMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=cdxs_OfficeEquipmentAndFurnitureMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_PropertyPlantAndEquipmentByTypeAxis=us-gaap_ConstructionInProgressMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 58 R47.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Balance Sheets Details - Other Accrued Liabilities (Details) - USD ($) $ in Thousands Jun. 30, 2024 Dec. 31, 2023 Balance Sheets Details [Abstract] Â Â Accrued professional and outside service fees $ 2,766 $ 2,330 Accrued purchases 2,252 1,402 Other 399 1,003 Total other accrued liabilities $ 5,417 $ 4,735 X - Definition-- None. No documentation exists for this element. -- + ReferencesNo definition available. + Details Name: cdxs_BalanceSheetsDetailsAbstract Namespace Prefix: cdxs_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionCarrying value as of the balance sheet date of obligations incurred and payable, pertaining to costs that are statutory in nature, are incurred on contractual obligations, or accumulate over time and for which invoices have not yet been received or will not be rendered. Examples include taxes, interest, rent and utilities. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer). + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(20)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_AccruedLiabilitiesCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionCarrying value as of the balance sheet date of obligations incurred through that date and payable for professional fees, such as for legal and accounting services received. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(15)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_AccruedProfessionalFeesCurrentAndNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of expenses incurred but not yet paid classified as other. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(15)(5)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1 + Details Name: us-gaap_OtherAccruedLiabilitiesCurrentAndNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionMinimum amount of purchase arrangement in which the entity has agreed to expend funds to procure goods or services from a supplier. + ReferencesNo definition available. + Details Name: us-gaap_PurchaseObligation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML 59 R48.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock-based Compensation - Narrative (Details) - USD ($) 1 Months Ended 3 Months Ended 6 Months Ended Jan. 31, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Â Â Â Â Â Â Share-based payment arrangement, noncash expense Â Â $ 4,682,000 $ 2,716,000 $ 7,853,000 $ 5,525,000 Selling, general and administrative Â Â Â Â Â Â Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Â Â Â Â Â Â Share-based payment arrangement, noncash expense Â Â 3,940,000 $ 1,827,000 6,176,000 $ 3,785,000 Stock-based compensation expense Â Â $ 2,000,000 Â $ 2,000,000 Â ESPP Â Â Â Â Â Â Â Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Â Â Â Â Â Â Â Consecutive offering period Â 24 months Â Â Â Â Purchase price of common stock Â 85.00% Â Â Â Â Fixed contribution rate Â $ 25,000 Â Â Â Â Number of shares authorized (in shares) Â 2,000,000 Â 2,000,000 Â 2,000,000 Share-based compensation arrangement by share-based payment award, shares issued in period (in shares) Â Â 123,889 Â 123,889 Â Common stock, capital shares reserved for future issuance (in shares) Â Â 1,876,111 Â 1,876,111 Â Share-based payment arrangement, noncash expense Â Â $ 72,000 $ 0 $ 149,000 $ 0 Share-based payment arrangement, nonvested award, cost not yet recognized, amount Â Â 600,000 Â 600,000 Â Stock Options Â Â Â Â Â Â Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Â Â Â Â Â Â Share-based payment arrangement, noncash expense Â Â 2,117,000 1,096,000 $ 3,631,000 2,018,000 Expiration period Â Â Â Â 10 years Â Award vesting period 3 years Â Â Â 4 years Â Compensation not yet recognized, stock options Â Â 12,000,000.0 Â $ 12,000,000.0 Â Stock Options | Tranche One Â Â Â Â Â Â Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Â Â Â Â Â Â Award vesting period 1 year Â Â Â 1 year Â Award vesting rights 33.00% Â Â Â 25.00% Â Stock Options | Tranche Two Â Â Â Â Â Â Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Â Â Â Â Â Â Award vesting period 2 years Â Â Â 3 years Â Award vesting rights 67.00% Â Â Â 75.00% Â RSUs Â Â Â Â Â Â Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Â Â Â Â Â Â Award vesting rights Â Â Â Â 33.00% Â RSAs and RSUs Â Â Â Â Â Â Share-based Compensation Arrangement by Share-based Payment Award [Line Items] Â Â Â Â Â Â Share-based payment arrangement, noncash expense Â Â 1,152,000 $ 1,373,000 $ 2,469,000 $ 2,499,000 Compensation not yet recognized, share-based awards other than options Â Â $ 6,000,000.0 Â $ 6,000,000.0 Â X - DefinitionShare-Based Compensation Arrangement By Share-based Payment Award, Consecutive Offering Period + ReferencesNo definition available. + Details Name: cdxs_ShareBasedCompensationArrangementBySharebasedPaymentAwardConsecutiveOfferingPeriod Namespace Prefix: cdxs_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionShare-based Compensation Arrangement by Share-based Payment Award, Maximum Employee Subscription Amount + ReferencesNo definition available. + Details Name: cdxs_SharebasedCompensationArrangementbySharebasedPaymentAwardMaximumEmployeeSubscriptionAmount Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionAmount of expense for award under share-based payment arrangement. Excludes amount capitalized. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SAB Topic 14.F) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479830/718-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (h)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_AllocatedShareBasedCompensationExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAggregate number of common shares reserved for future issuance. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1 + Details Name: us-gaap_CommonStockCapitalSharesReservedForFutureIssuance Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionAmount of cost not yet recognized for nonvested award under share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognized Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of cost to be recognized for nonvested award under share-based payment arrangement. Excludes share and unit options. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognizedShareBasedAwardsOtherThanOptions Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of cost to be recognized for option under share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_EmployeeServiceShareBasedCompensationNonvestedAwardsTotalCompensationCostNotYetRecognizedStockOptions Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of noncash expense for share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_ShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionPeriod over which grantee's right to exercise award under share-based payment arrangement is no longer contingent on satisfaction of service or performance condition, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. Includes, but is not limited to, combination of market, performance or service condition. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher

FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardAwardVestingPeriod1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 1D -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-1DReference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 35 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480483/718-10-35-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(01) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(2)(iii)(03) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (d)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (e)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(i) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(ii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 26: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iii) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 27: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(iv) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 28: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (f)(2)(v) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionNumber of shares authorized for issuance under share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardNumberOfSharesAuthorized Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionNumber of shares issued under share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 718 -SubTopic 10 -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardSharesIssuedInPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionPercentage of vesting of award under share-based payment arrangement. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardAwardVestingRightsPercentage Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionPeriod from grant date that an equity-based award expires, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardExpirationPeriod Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionPurchase price of common stock expressed as a percentage of its fair value. + ReferencesNo definition available. + Details Name: us-gaap_SharebasedCompensationArrangementBySharebasedPaymentAwardPurchasePriceOfCommonStockPercent Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_IncomeStatementLocationAxis=us-gaap_SellingGeneralAndAdministrativeExpensesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardTypeAxis=us-gaap_EmployeeStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardTypeAxis=us-gaap_EmployeeStockOptionMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_VestingAxis=us-gaap_ShareBasedCompensationAwardTrancheOneMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_VestingAxis=us-gaap_ShareBasedCompensationAwardTrancheTwoMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardTypeAxis=us-gaap_RestrictedStockUnitsRSUMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardTypeAxis=cdxs_RSAsandRSUsMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 60 R49.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Stock-based Compensation - Stock-based Compensation Expense (Details) - USD ($) $ in Thousands 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Share-based Payment Arrangement, Expensed and Capitalized, Amount [Line Items] Â Â Â Â Stock-based compensation $ 4,682 $ 2,716 $ 7,853 $ 5,525 Stock options Â Â Â Â Share-based Payment Arrangement, Expensed and Capitalized, Amount [Line Items] Â Â Â Â Stock-based compensation 2,117 1,096 3,631 2,018 RSUs and restricted stock awards (â€œRSAsâ€) Â Â Â Â Share-based Payment Arrangement, Expensed and Capitalized, Amount [Line Items] Â Â Â Â Stock-based compensation 1,152 1,373 2,469 2,499 Performance-contingent restricted stock units (â€œPSUsâ€) Â Â Â Â Share-based Payment Arrangement, Expensed and Capitalized, Amount [Line Items] Â Â Â Â Stock-based compensation 0 279 247 1,116 Performance based options (â€œPBOsâ€) Â Â Â Â Share-based Payment Arrangement, Expensed and Capitalized, Amount [Line Items] Â Â Â Â Stock-based compensation 1,341 (32) 1,357 (108) ESPP Â Â Â Â Share-based Payment Arrangement, Expensed and Capitalized, Amount [Line Items] Â Â Â Â Stock-based compensation 72 0 149 0 Cost of product revenue Â Â Â Â Share-based Payment Arrangement, Expensed and Capitalized, Amount [Line Items] Â Â Â Â Stock-based compensation 101 83 216 212 Research and development Â Â Â Â Share-based Payment Arrangement, Expensed and Capitalized, Amount [Line Items] Â Â Â Â Stock-based compensation 641 806 1,461 1,528 Selling, general and administrative Â Â Â Â Share-based Payment Arrangement, Expensed and Capitalized, Amount [Line Items] Â Â Â Â Stock-based compensation $ 3,940 $ 1,827 $ 6,176 $ 3,785 X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_EmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of noncash expense for share-based payment arrangement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 45 -Paragraph 28 -Subparagraph (a) -SubTopic 10 -Topic 230 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-28 + Details Name: us-gaap_ShareBasedCompensation Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - Details Name: us-gaap_AwardTypeAxis=us-gaap_EmployeeStockOptionMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardTypeAxis=cdxs_RSAsandRSUsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardTypeAxis=cdxs_PerformanceContingentRestrictedStockUnitsPSUMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardTypeAxis=cdxs_PerformanceBasedOptionsPBOsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_AwardTypeAxis=us-gaap_EmployeeStockMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementLocationAxis=us-gaap_CostOfSalesMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementLocationAxis=us-gaap_ResearchAndDevelopmentExpenseMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_IncomeStatementLocationAxis=us-gaap_SellingGeneralAndAdministrativeExpensesMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 61 R50.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Capital Stock (Details) $ / shares in Units, $ in Thousands 1 Months Ended 3 Months Ended 6 Months Ended May 02, 2024 USD ($) May 31, 2021 USD ($) Jun. 30, 2024 shares Jun. 30, 2023 USD ($) shares Jun. 30, 2024 USD ($) $ / shares shares Jun. 30, 2023 USD ($) $ / shares shares Feb. 27, 2023 USD ($) Class of Stock [Line Items] Â Â Â Â Â Â Â Stock options exercised (shares) | shares Â Â Â Â 75,856 214,284 Â Weighted average exercise price of stock options exercised (in dollars per share) | $ / shares Â Â Â Â $ 1.97 $ 1.97 Â Net proceeds from stock options exercised Â Â Â Â $ 100 $ 400 Â Sale of stock, securities registered aggregate amount Â Â Â Â Â Â $ 200,000 Sale of stock, consideration received on transaction, gross Â Â Â $ 7,100 Â 8,700 Â Net proceeds received Â Â Â 6,800 Â 7,900 Â Costs incurred in connection with offering Â Â Â $ 331 Â $ 721 Â Cantor Sales Agreement Â Â Â Â Â Â Â Class of Stock [Line Items] Â Â Â Â Â Â Â Net proceeds received $ 75,000 Â Â Â $ 75,000 Â Â Sale of stock, commission fee, percent 0.030 Â Â Â Â Â Â PSC Â Â Â Â Â Â Â Class of Stock [Line Items] Â Â Â Â Â Â Â Sale of stock, period Â 3 years Â Â Â Â Â Sale of stock, maximum selling period Â 3 years Â Â Â Â Â Sale of stock, commissions, percentage of gross sales price Â 3.00% Â Â Â Â Â Issuance of common stock in connection with an equity sales agreement, net of issuance costs (shares) | shares Â Â 0 2,751,941 0 3,079,421 Â PSC | Maximum Â Â Â Â Â Â Â Class of Stock [Line Items] Â Â Â Â Â Â Â Sale of stock, value of shares for issuance Â $ 50,000 Â Â Â Â Â Sale of stock, commissions and reimbursements, percentage of gross sales price Â 8.00% Â Â Â Â Â X - DefinitionNet Proceeds From Stock Options Exercised + ReferencesNo definition available. + Details Name: cdxs_NetProceedsFromStockOptionsExercised Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionSale Of Stock, Commission Fee, Percent + ReferencesNo definition available. + Details Name: cdxs_SaleOfStockCommissionFeePercent Namespace Prefix: cdxs_ Data Type: xbrli:pureItemType Balance Type: na Period Type: instant X - DefinitionSale Of Stock, Commissions And Reimbursements, Percentage Of Gross Sales Price + ReferencesNo definition available. + Details Name: cdxs_SaleOfStockCommissionsAndReimbursementsPercentageOfGrossSalesPrice Namespace Prefix: cdxs_ Data Type: dtr-types1:percentItemType Balance Type: na Period Type: duration X - DefinitionSale Of Stock, Commissions, Percentage Of Gross Sales Price + ReferencesNo definition available. + Details Name: cdxs_SaleOfStockCommissionsPercentageOfGrossSalesPrice Namespace Prefix: cdxs_ Data Type: dtr-types1:percentItemType Balance Type: na Period Type: duration X - DefinitionSale of Stock, Consideration Received on Transaction, Gross + ReferencesNo definition available. + Details Name: cdxs_SaleOfStockConsiderationReceivedOnTransactionGross Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionSale Of Stock, Maximum Selling Period + ReferencesNo definition available. + Details Name: cdxs_SaleOfStockMaximumSellingPeriod Namespace Prefix: cdxs_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionSale Of Stock, Period + ReferencesNo definition available. + Details Name: cdxs_SaleOfStockPeriod Namespace Prefix: cdxs_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionSale Of Stock, Securities Registered Aggregate Amount + ReferencesNo definition available. + Details Name: cdxs_SaleOfStockSecuritiesRegisteredAggregateAmount Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionSale Of Stock, Value Of Shares For Issuance + ReferencesNo definition available. + Details Name: cdxs_SaleOfStockValueOfSharesForIssuance Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 2: http://www.xbrl.org/2003/role/recommendedDisclosureRef -Topic 272 -SubTopic 10 -Name Accounting Standards Codification -Section 45 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483014/272-10-45-3Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 272 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482987/272-10-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(d)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 7: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 13 -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-13Reference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -

Paragraph 14 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-14Reference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-18Reference 11: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(27)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)(i)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(2)(ii)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3 + Details Name: us-gaap_ClassOfStockLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionThe cash outflow for cost incurred directly with the issuance of an equity security. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 230 -SubTopic 10 -Section 45 -Paragraph 15 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482740/230-10-45-15 + Details Name: us-gaap_PaymentsOfStockIssuanceCosts Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionCash received on stock transaction after deduction of issuance costs. + ReferencesNo definition available. + Details Name: us-gaap_SaleOfStockConsiderationReceivedOnTransaction Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionWeighted average price at which option holders acquired shares when converting their stock options into shares. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2 + Details Name: us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsExercisesInPeriodWeightedAverageExercisePrice Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: duration X - DefinitionNumber of new stock issued during the period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 505 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478448/946-505-50-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 220 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-09(4)(b)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479134/946-220-S99-3Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.6-03(i)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479886/946-10-S99-3Reference 7: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesNewIssues Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - DefinitionNumber of share options (or share units) exercised during the current period. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 2 -SubTopic 10 -Topic 505 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-2Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(28)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(29)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 718 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Subparagraph (c)(1)(iv)(02) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480429/718-10-50-2Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.3-04) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480008/505-10-S99-1 + Details Name: us-gaap_StockIssuedDuringPeriodSharesStockOptionsExercised Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_SubsidiarySaleOfStockAxis=cdxs_CantorSalesAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: dei_LegalEntityAxis=cdxs_PiperSandlerCoMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 62 R51.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Commitments and Contingencies - Lease Cost (Details) - USD ($) $ in Thousands 3 Months Ended 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Commitments and Contingencies Disclosure [Abstract] Â Â Â Â Â Operating lease, cost $ 1,033 $ 1,830 $ 2,065 $ 3,660 Variable lease cost $ 0 $ 0 $ 0 $ 0 X - ReferencesNo definition available. + Details Name: us-gaap_CommitmentsAndContingenciesDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of single lease cost, calculated by allocation of remaining cost of lease over remaining lease term. Includes, but is not limited to, single lease cost, after impairment of right-of-use asset, calculated by amortization of remaining right-of-use asset and accretion of lease liability. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_OperatingLeaseCost Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionAmount of variable lease cost, excluded from lease liability, recognized when obligation for payment is incurred for finance and operating leases. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_VariableLeaseCost Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration XML 63 R52.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Commitments and Contingencies - Other Lease Information (Details) Jun. 30, 2024 Commitments and Contingencies Disclosure [Abstract] Â Weighted-average remaining lease term (in years) 3 years 4 months 24 days Weighted-average discount rate 6.60% X - ReferencesNo definition available. + Details Name: us-gaap_CommitmentsAndContingenciesDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionWeighted average discount rate for operating lease calculated at point in time. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(4) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_OperatingLeaseWeightedAverageDiscountRatePercent Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionWeighted average remaining lease term for operating lease, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 53 -Publisher FASB -URI https://asc.fasb.org/1943274/2147479589/842-20-55-53Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_OperatingLeaseWeightedAverageRemainingLeaseTerm1 Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: instant XML 64 R53.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Commitments and Contingencies - Cash Paid for Lease Obligations (Details) - USD ($) $ in Thousands 6 Months Ended Jun. 30, 2024 Jun. 30, 2023 Commitments and Contingencies Disclosure [Abstract] Â Â Operating cash flows from operating leases $ 2,357 $ 3,775 X - ReferencesNo definition available. + Details Name: us-gaap_CommitmentsAndContingenciesDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount of cash outflow from operating lease, excluding payments to bring another asset to condition and location necessary for its intended use. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 5 -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-5Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (g)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-4 + Details Name: us-gaap_OperatingLeasePayments Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration XML 65 R54.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Commitments and Contingencies - Maturity Analysis of Operating Lease (Details) - USD ($) $ in Thousands Jun. 30, 2024 Dec. 31, 2023 Operating Leases Â Â 2024 (remaining 6 months) $ 2,369 Â 2025 4,868 Â 2026 5,014 Â 2027 2,533 Â 2028 760 Â Thereafter 318 Â Total minimum lease payments 15,862 Â Less: imputed interest 1,692 Â Lease obligations 14,170 Â Current portion of lease obligations - Operating leases 3,979 $ 3,781 Long-term lease obligations - Operating leases $ 10,191 $ 12,243 X - DefinitionLessee, Operating Lease, Liability, to be Paid, After Year Four + ReferencesNo definition available. + Details Name: cdxs_LesseeOperatingLeaseLiabilityToBePaidAfterYearFour Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearFour Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearThree Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease to be paid in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearTwo Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payment for operating lease having initial or remaining lease term in excess of one year to be paid in remainder of current fiscal year. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityPaymentsRemainderOfFiscalYear Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of lessee's undiscounted obligation for lease payments in excess of discounted obligation for lease payments for operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478964/842-20-50-6 + Details Name: us-gaap_LesseeOperatingLeaseLiabilityUndiscountedExcessAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_OperatingLeaseLiabilitiesPaymentsDueAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiability Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as current. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiabilityCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionPresent value of lessee's discounted obligation for lease payments from operating lease, classified as noncurrent. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 842 -SubTopic 20 -Name Accounting Standards Codification -Section 45 -Paragraph 1 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147479041/842-20-45-1 + Details Name: us-gaap_OperatingLeaseLiabilityNoncurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant XML 66 R55.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Commitments and Contingencies - Other Commitments (Details) - Facility maintenance agreement $ in Thousands Jun. 30, 2024 USD ($) Other Commitments [Line Items] Â Total $ 281 2024 (Remaining 6 Months) 281 2025 and Thereafter $ 0 X - DefinitionOther Commitment, To Be Paid, Year One And Thereafter + ReferencesNo definition available. + Details Name: cdxs_OtherCommitmentToBePaidYearOneAndThereafter Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionMinimum amount of other commitment not otherwise specified in the taxonomy. Excludes commitments explicitly modeled in the taxonomy, including but not limited to, long-term and short-term purchase commitments, recorded and unrecorded purchase obligations, supply commitments, registration payment

arrangements, leases, debt, product warranties, guarantees, environmental remediation obligations, and pensions. + ReferencesNo definition available. + Details Name: us-gaap_OtherCommitment Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of commitment classified as other to be paid in remainder of current fiscal year. + ReferencesNo definition available. + Details Name: us-gaap_OtherCommitmentsFutureMinimumPaymentsRemainderOfFiscalYear Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_OtherCommitmentsLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_OtherCommitmentsAxis=cdxs_FacilityMaintenanceAgreementMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 67 R56.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Commitments and Contingencies - Narrative (Details) Jun. 30, 2024 USD ($) Indemnification Agreement Â Other Commitments [Line Items] Â Loss contingency accrual $ 0 X - DefinitionAmount of loss contingency liability expected to be resolved within one year or the normal operating cycle, if longer. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 450 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147483076/450-20-50-1 + Details Name: us-gaap_LossContingencyAccrualCarryingValueCurrent Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesNo definition available. + Details Name: us-gaap_OtherCommitmentsLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_LossContingenciesByNatureOfContingencyAxis=us-gaap_IndemnificationGuaranteeMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 68 R57.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Debt - Narrative (Details) $ / shares in Units, $ in Thousands 3 Months Ended 6 Months Ended Feb. 13, 2024 USD ($) tranche $ / shares shares Jun. 30, 2024 USD ($) Jun. 30, 2024 USD ($) Debt Instrument [Line Items] Â Â Face value of debt Â $ 30,000 $ 30,000 Investment, Variable Interest Rate, Type [Extensible Enumeration] Prime Rate [Member] Â Â Debt instrument, unamortized discount Â 1,261 1,261 Unamortized debt issuance expense Â 605 605 Class of warrant or right, fair value Â Â 900 Secured Debt | Innovatus Loan Warrants Â Â Â Debt Instrument [Line Items] Â Â Â Class of warrant or right, number of securities called by warrants or rights (in shares) | shares 424,028 Â Â Class of warrant or right, exercise price of warrants or rights (in dollars per share) | $ / shares $ 2.83 Â Â Innovatus Loan | Secured Debt Â Â Â Debt Instrument [Line Items] Â Â Â Debt instrument, term 5 years Â Â Face value of debt $ 40,000 Â Â Debt instrument, number of tranches | tranche 2 Â Â Stated interest rate 7.50% Â Â Basis spread on variable rate 3.25% Â Â Debt instrument, interest, paid in kind 0.020 Â Â Debt instrument, interest payable, term 3 years Â Â Debt instrument, exit fee, percent 0.030 Â Â Debt instrument, unamortized discount $ 1,300 Â Â Unamortized debt issuance expense $ 600 Â Â Interest expense, debt Â $ 1,000 $ 1,500 Debt instrument, interest rate, effective percentage Â 14.00% 14.00% Innovatus Loan | Secured Debt | Maximum Â Â Â Debt Instrument [Line Items] Â Â Â Early repayment fee, percentage 0.030 Â Â Innovatus Loan | Secured Debt | Minimum Â Â Â Debt Instrument [Line Items] Â Â Â Early repayment fee, percentage 0.010 Â Â Innovatus Loan - First Tranche | Secured Debt Â Â Â Debt Instrument [Line Items] Â Â Â Face value of debt $ 30,000 Â Â Innovatus Loan - Second Tranche | Secured Debt Â Â Â Debt Instrument [Line Items] Â Â Â Face value of debt $ 10,000 Â Â X - DefinitionClass Of Warrant Or Right, Fair Value + ReferencesNo definition available. + Details Name: cdxs_ClassOfWarrantOrRightFairValue Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: duration X - DefinitionDebt Instrument, Exit Fee, Percent + ReferencesNo definition available. + Details Name: cdxs_DebtInstrumentExitFeePercent Namespace Prefix: cdxs_ Data Type: xbrli:pureItemType Balance Type: na Period Type: instant X - DefinitionDebt Instrument, Interest, Paid In Kind + ReferencesNo definition available. + Details Name: cdxs_DebtInstrumentInterestPaidInKind Namespace Prefix: cdxs_ Data Type: xbrli:pureItemType Balance Type: na Period Type: instant X - DefinitionDebt Instrument, Interest Payable, Term + ReferencesNo definition available. + Details Name: cdxs_DebtInstrumentInterestPayableTerm Namespace Prefix: cdxs_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionDebt Instrument, Number Of Tranches + ReferencesNo definition available. + Details Name: cdxs_DebtInstrumentNumberOfTranches Namespace Prefix: cdxs_ Data Type: xbrli:integerItemType Balance Type: na Period Type: instant X - DefinitionEarly Repayment Fee, Percentage + ReferencesNo definition available. + Details Name: cdxs_EarlyRepaymentFeePercentage Namespace Prefix: cdxs_ Data Type: xbrli:pureItemType Balance Type: na Period Type: instant X - DefinitionExercise price per share or per unit of warrants or rights outstanding. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3 + Details Name: us-gaap_ClassOfWarrantOrRightExercisePriceOfWarrantsOrRights1 Namespace Prefix: us-gaap_ Data Type: dtr-types:perShareItemType Balance Type: na Period Type: instant X - DefinitionNumber of securities into which the class of warrant or right may be converted. For example, but not limited to, 500,000 warrants may be converted into 1,000,000 shares. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 505 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 3 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481112/505-10-50-3 + Details Name: us-gaap_ClassOfWarrantOrRightNumberOfSecuritiesCalledByWarrantsOrRights Namespace Prefix: us-gaap_ Data Type: xbrli:sharesItemType Balance Type: na Period Type: instant X - DefinitionPercentage points added to the reference rate to compute the variable rate on the debt instrument. + ReferencesNo definition available. + Details Name: us-gaap_DebtInstrumentBasisSpreadOnVariableRate1 Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - DefinitionFace (par) amount of debt instrument at time of issuance. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2 + Details Name: us-gaap_DebtInstrumentFaceAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionEffective interest rate for the funds borrowed under the debt agreement considering interest compounding and original issue discount or premium. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-6 + Details Name: us-gaap_DebtInstrumentInterestRateEffectivePercentage Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionContractual interest rate for funds borrowed, under the debt agreement. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 210 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)(a)(1)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1B + Details Name: us-gaap_DebtInstrumentInterestRateStatedPercentage Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: instant X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8Reference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.4-08(f)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-04(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 6: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 7: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69E -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69EReference 8: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69F -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69FReference 9: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 10: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 11: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 12: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 13: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (f) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 14: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (h) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 15: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 16: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 17: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 18: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 19: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 20: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 21: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 22: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 23: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 24: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b)(2) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 25: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1I -Subparagraph (c) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1IReference 26: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 27: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1 + Details Name: us-gaap_DebtInstrumentLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionPeriod of time between issuance and maturity of debt instrument, in PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents the reported fact of one year, five months, and thirteen days. + ReferencesNo definition available. + Details Name: us-gaap_DebtInstrumentTerm Namespace Prefix: us-gaap_ Data Type: xbrli:durationItemType Balance Type: na Period Type: duration X - DefinitionAmount, after accumulated amortization, of debt discount. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-1AReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1D + Details Name: us-gaap_DebtInstrumentUnamortizedDiscount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount of the cost of borrowed funds accounted for as interest expense for debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 220 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.5-03(8)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147483621/220-10-S99-2Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69E -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69EReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69F -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69FReference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1F -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1FReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 6 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-6 + Details Name: us-gaap_InterestExpenseDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: duration X - DefinitionIndicates type of variable interest rate of investment. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 320 -Name Accounting Standards Codification -Section S99 -Paragraph 2 -Subparagraph (SX 210.12-12A(Column A)(Footnote 3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477271/946-320-

S99-2Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 320 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.12-12(Column A)(Footnote 4)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477271/946-320-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 320 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-12B(Column A)(Footnote 3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477271/946-320-S99-3Reference 4: http://www.xbrl.org/2003/role/disclosureRef -Topic 946 -SubTopic 320 -Name Accounting Standards Codification -Section S99 -Paragraph 6 -Subparagraph (SX 210.12-14(Column A)(Footnote 3)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147477271/946-320-S99-6 + Details Name: us-gaap_InvestmentVariableInterestRateTypeExtensibleEnumeration Namespace Prefix: us-gaap_ Data Type: enum2:enumerationSetItemType Balance Type: na Period Type: instant X - DefinitionThe remaining balance of debt issuance expenses that were capitalized and are being amortized against income over the lives of the respective bond issues. This does not include the amounts capitalized as part of the cost of the utility plant or asset. + ReferencesNo definition available. + Details Name: us-gaap_UnamortizedDebtIssuanceExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - Details Name: us-gaap_LongtermDebtTypeAxis=us-gaap_SecuredDebtMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ClassOfWarrantOrRightAxis=cdxs_InnovatusLoanWarrantsMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=cdxs_InnovatusLoanMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MaximumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_RangeAxis=srt_MinimumMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=cdxs_InnovatusLoanFirstTrancheMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_DebtInstrumentAxis=cdxs_InnovatusLoanSecondTrancheMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 69 R58.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Debt - Schedule of Long-Term Debt Instruments (Details) $ in Thousands Jun. 30, 2024 USD ($) Debt Disclosure [Abstract] Â Face value of debt $ 30,000 Add: payment in-kind interest 180 Add: amortized exit fee 52 Less: unamortized debt issuance fee (1,261) Less: unamortized debt issuance costs (605) Total long-term debt $ 28,365 X - DefinitionDebt Instrument, Amortized Exit Fee + ReferencesNo definition available. + Details Name: cdxs_DebtInstrumentAmortizedExitFee Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionDebt Instrument, Payment In-kind Interest + ReferencesNo definition available. + Details Name: cdxs_DebtInstrumentPaymentInKindInterest Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_DebtDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionFace (par) amount of debt instrument at time of issuance. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1B -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1BReference 3: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 5: http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1Reference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2 + Details Name: us-gaap_DebtInstrumentFaceAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after accumulated amortization, of debt discount. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-1AReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1D + Details Name: us-gaap_DebtInstrumentUnamortizedDiscount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt. Excludes lease obligation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(16)(a)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-4 + Details Name: us-gaap_LongTermDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionThe remaining balance of debt issuance expenses that were capitalized and are being amortized against income over the lives of the respective bond issues. This does not include the amounts capitalized as part of the cost of the utility plant or asset. + ReferencesNo definition available. + Details Name: us-gaap_UnamortizedDebtIssuanceExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 70 R59.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Debt - Schedule of Maturities of Long-Term Debt (Details) $ in Thousands Jun. 30, 2024 USD ($) Debt Disclosure [Abstract] Â 2024 $ 0 2025 0 2026 0 2027 13,264 2028 15,917 2029 2,653 Total principal payments 31,834 Add: amortized exit fee 52 Less: uncapitalized payment in-kind interest (1,655) Less: unamortized debt issuance fee (1,261) Less: unamortized debt issuance costs (605) Total long-term debt $ 28,365 X - DefinitionDebt Instrument, Amortized Exit Fee + ReferencesNo definition available. + Details Name: cdxs_DebtInstrumentAmortizedExitFee Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionDebt Instrument, Uncapitalized Payment In-kind Interest + ReferencesNo definition available. + Details Name: cdxs_DebtInstrumentUncapitalizedPaymentInKindInterest Namespace Prefix: cdxs_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - ReferencesNo definition available. + Details Name: us-gaap_DebtDisclosureAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionAmount, before unamortized (discount) premium and debt issuance costs, of long-term debt. Includes, but is not limited to, notes payable, bonds payable, commercial loans, mortgage loans, convertible debt, subordinated debt and other types of debt. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 3: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b)(1) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-4 + Details Name: us-gaap_DebtInstrumentCarryingAmount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount, after accumulated amortization, of debt discount. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 1A -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-1AReference 2: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 45 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482925/835-30-45-2Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 50 -Paragraph 1 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482900/835-30-50-1Reference 4: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1D + Details Name: us-gaap_DebtInstrumentUnamortizedDiscount Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - DefinitionAmount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt. Excludes lease obligation. + ReferencesReference 1: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.5-02(22)) -SubTopic 10 -Topic 210 -Publisher FASB -URI https://asc.fasb.org/1943274/2147480566/210-10-S99-1Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 835 -SubTopic 30 -Name Accounting Standards Codification -Section 55 -Paragraph 8 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482949/835-30-55-8Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Topic 942 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.9-03(16)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478546/942-210-S99-1Reference 4: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69B -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69BReference 5: http://www.xbrl.org/2003/role/exampleRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 55 -Paragraph 69C -Publisher FASB -URI https://asc.fasb.org/1943274/2147481568/470-20-55-69CReference 6: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1D -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1DReference 7: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 944 -SubTopic 210 -Name Accounting Standards Codification -Section S99 -Paragraph 1 -Subparagraph (SX 210.7-03(a)(16)(a)(2)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147478777/944-210-S99-1Reference 8: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 4 -Subparagraph (b)(3) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-4 + Details Name: us-gaap_LongTermDebt Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of long-term debt payable, sinking fund requirement, and other securities issued that are redeemable by holder at fixed or determinable price and date, maturing in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-04(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 470 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-1 + Details Name: us-gaap_LongTermDebtMaturitiesRepaymentsOfPrincipalInNextTwelveMonths Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of long-term debt payable, sinking fund requirement, and other securities issued that are redeemable by holder at fixed or determinable price and date, maturing in fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-04(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 470 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-1 + Details Name: us-gaap_LongTermDebtMaturitiesRepaymentsOfPrincipalInYearFive Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of long-term debt payable, sinking fund requirement, and other securities issued that are redeemable by holder at fixed or determinable price and date, maturing in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-04(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 470 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-1 + Details Name: us-gaap_LongTermDebtMaturitiesRepaymentsOfPrincipalInYearFour Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of long-term debt payable, sinking fund requirement, and other securities issued that are redeemable by holder at fixed or determinable price and date, maturing in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-04(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 470 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-1 + Details Name: us-gaap_LongTermDebtMaturitiesRepaymentsOfPrincipalInYearThree Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of long-term debt payable, sinking fund requirement, and other securities issued that are redeemable by holder at fixed or determinable price and date, maturing in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach). + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-04(a)) -Publisher FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3Reference 2: http://www.xbrl.org/2003/role/disclosureRef -Topic 470 -SubTopic 20 -Name Accounting Standards Codification -Section 50 -Paragraph 1E -Subparagraph (d) -Publisher FASB -URI https://asc.fasb.org/1943274/2147481139/470-20-50-1EReference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Section 50 -Paragraph 1 -SubTopic 10 -Topic 470 -Publisher FASB -URI https://asc.fasb.org/1943274/2147481544/470-10-50-1 + Details Name: us-gaap_LongTermDebtMaturitiesRepaymentsOfPrincipalInYearTwo Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionAmount of long-term debt payable, sinking fund requirement, and other securities issued that are redeemable by holder at fixed or determinable price and date, maturing in remainder of current fiscal year. + ReferencesReference 1: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 235 -SubTopic 10 -Name Accounting Standards Codification -Section S99 -Paragraph 3 -Subparagraph (SX 210.12-04(a)) -Publisher

FASB -URI https://asc.fasb.org/1943274/2147480678/235-10-S99-3 + Details Name: us-gaap_LongTermDebtMaturitiesRepaymentsOfPrincipalRemainderOfFiscalYear Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: credit Period Type: instant X - DefinitionThe remaining balance of debt issuance expenses that were capitalized and are being amortized against income over the lives of the respective bond issues. This does not include the amounts capitalized as part of the cost of the utility plant or asset. + ReferencesNo definition available. + Details Name: us-gaap_UnamortizedDebtIssuanceExpense Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant XML 71 R60.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Segment, Geographical and Other Revenue Information - Narrative (Details) - segment 12 Months Ended Dec. 31, 2023 Dec. 31, 2022 Segment Reporting [Abstract] Â Â Number of reportable segments 1 2 X - DefinitionNumber of segments reported by the entity. A reportable segment is a component of an entity for which there is an accounting requirement to report separate financial information on that component in the entity's financial statements. + ReferencesReference 1: http://www.xbrl.org/2003/role/exampleRef - Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 47 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-47Reference 2: http://www.xbrl.org/2003/role/exampleRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 55 -Paragraph 54 -Subparagraph (e) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482785/280-10-55-54Reference 3: http://www.xbrl.org/2009/role/commonPracticeRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 18 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-18 + Details Name: us-gaap_NumberOfReportableSegments Namespace Prefix: us-gaap_ Data Type: xbrli:integerItemType Balance Type: na Period Type: duration X - ReferencesNo definition available. + Details Name: us-gaap_SegmentReportingAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration XML 72 R61.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Segment, Geographical and Other Revenue Information - Concentration Risk (Details) - Customer Concentration Risk 3 Months Ended 6 Months Ended 12 Months Ended Jun. 30, 2024 Jun. 30, 2023 Jun. 30, 2024 Jun. 30, 2023 Dec. 31, 2023 Revenue | Customer A Â Â Â Â Â Concentration Risk [Line Items] Â Â Â Â Â Concentration risk, percentage 18.00% Â 16.00% 11.00% Â Revenue | Customer B Â Â Â Â Â Concentration Risk [Line Items] Â Â Â Â Â Concentration risk, percentage 18.00% Â Â Â Â Â Revenue | Customer C Â Â Â Â Â Concentration Risk [Line Items] Â Â Â Â Â Concentration risk, percentage 18.00% Â Â Â Â Â Revenue | Customer D Â Â Â Â Â Concentration Risk [Line Items] Â Â Â Â Â Concentration risk, percentage 15.00% Â Â Â Â Â Revenue | Customer E Â Â Â Â Â Concentration Risk [Line Items] Â Â Â Â Â Concentration risk, percentage Â 28.00% Â 17.00% Â Revenue | Customer F Â Â Â Â Â Concentration Risk [Line Items] Â Â Â Â Â Concentration risk, percentage Â 18.00% Â 11.00% Â Revenue | Customer G Â Â Â Â Â Concentration Risk [Line Items] Â Â Â Â Â Concentration risk, percentage Â 11.00% Â Â Â Revenue | Customer H Â Â Â Â Â Concentration Risk [Line Items] Â Â Â Â Â Concentration risk, percentage Â Â 24.00% Â Â Revenue | Customer I Â Â Â Â Â Concentration Risk [Line Items] Â Â Â Â Â Concentration risk, percentage Â Â Â 10.00% Â Accounts Receivable | Customer A Â Â Â Â Â Concentration Risk [Line Items] Â Â Â Â Â Concentration risk, percentage Â Â 31.00% Â 12.00% Accounts Receivable | Customer D Â Â Â Â Â Concentration Risk [Line Items] Â Â Â Â Â Concentration risk, percentage Â Â 23.00% Â Â Accounts Receivable | Customer F Â Â Â Â Â Concentration Risk [Line Items] Â Â Â Â Â Concentration risk, percentage Â Â Â Â 21.00% Accounts Receivable | Customer J Â Â Â Â Â Concentration Risk [Line Items] Â Â Â Â Â Concentration risk, percentage Â Â 12.00% Â Â Â Â Â Accounts Receivable | Customer K Â Â Â Â Â Concentration Risk [Line Items] Â Â Â Â Â Concentration risk, percentage Â Â Â Â 13.00% Accounts Receivable | Customer L Â Â Â Â Â Concentration Risk [Line Items] Â Â Â Â Â Concentration risk, percentage Â Â Â Â 12.00% X - DefinitionLine items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 954 -SubTopic 310 -Name Accounting Standards Codification -Section 50 -Paragraph 2 -Publisher FASB -URI https://asc.fasb.org/1943274/2147478785/954-310-50-2 + Details Name: us-gaap_ConcentrationRiskLineItems Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionFor an entity that discloses a concentration risk in relation to quantitative amount, which serves as the "benchmark" (or denominator) in the equation, this concept represents the concentration percentage derived from the division. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 42 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-42Reference 2: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 825 -SubTopic 10 -Section 50 -Paragraph 21 -Subparagraph (a) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-21Reference 3: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 825 -SubTopic 10 -Section 50 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482907/825-10-50-20Reference 4: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 18 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-18Reference 5: http://fasb.org/us-gaap/role/ref/legacyRef -Name Accounting Standards Codification -Topic 275 -SubTopic 10 -Section 50 -Paragraph 20 -Publisher FASB -URI https://asc.fasb.org/1943274/2147482861/275-10-50-20 + Details Name: us-gaap_ConcentrationRiskPercentage1 Namespace Prefix: us-gaap_ Data Type: dtr-types:percentItemType Balance Type: na Period Type: duration X - Details Name: us-gaap_ConcentrationRiskByTypeAxis=us-gaap_CustomerConcentrationRiskMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ConcentrationRiskByBenchmarkAxis=us-gaap_SalesRevenueProductLineMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=cdxs_CustomerAMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=cdxs_CustomerBMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=cdxs_CustomerCMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=cdxs_CustomerDMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=cdxs_CustomerEMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=cdxs_CustomerFMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=cdxs_CustomerGMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=cdxs_CustomerHMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=cdxs_CustomerIMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: us-gaap_ConcentrationRiskByBenchmarkAxis=us-gaap_AccountsReceivableMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=cdxs_CustomerJMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=cdxs_CustomerKMember Namespace Prefix: Data Type: na Balance Type: Period Type: X - Details Name: srt_MajorCustomersAxis=cdxs_CustomerLMember Namespace Prefix: Data Type: na Balance Type: Period Type: XML 73 R62.htm IDEA: XBRL DOCUMENT v3.24.2.u1 Segment, Geographical and Other Revenue Information - Long-Lived Assets by Geographic Area (Details) - USD ($) $ in Thousands Jun. 30, 2024 Dec. 31, 2023 United States Â Â Geographic Areas, Long-Lived Assets [Abstract] Â Â Long-lived assets $ 25,878 $ 28,624 X - ReferencesNo definition available. + Details Name: us-gaap_GeographicAreasLongLivedAssetsAbstract Namespace Prefix: us-gaap_ Data Type: xbrli:stringItemType Balance Type: na Period Type: duration X - DefinitionLong-lived assets other than financial instruments, long-term customer relationships of a financial institution, mortgage and other servicing rights, deferred policy acquisition costs, and deferred tax assets. + ReferencesReference 1: http://www.xbrl.org/2003/role/disclosureRef -Topic 280 -SubTopic 10 -Name Accounting Standards Codification -Section 50 -Paragraph 41 -Subparagraph (b) -Publisher FASB -URI https://asc.fasb.org/1943274/2147482810/280-10-50-41 + Details Name: us-gaap_NoncurrentAssets Namespace Prefix: us-gaap_ Data Type: xbrli:monetaryItemType Balance Type: debit Period Type: instant X - Details Name: us-gaap_GeographicDistributionAxis=country_US Namespace Prefix: Data Type: na Balance Type: Period Type: EXCEL 74 Financial_Report.xlsx IDEA: XBRL DOCUMENT begin 644 Financial_Report.xlsx M4$L#!!0 (!V""%D'04UB@0 +$ 0 9&]C4')O<',O87!P+GAM M;$V./0L",1!$ _\QO;=!P4)B0-!2L+(/>QLOD&1#LD)^OCG!CVX>;QA&WPIG M*N*1#BV&5(_C(I(/ !47BK9.7:=N')=HI6-Y #OGDK7A.YNJQ<&4GPZ4A!0W_J=0U[R;UEA_6\#MI7E!+ P04 M " =@@A9B6ZGR.\ K @ $0 &1O8U!R;W!S+V-O&ULS9+! M:L,P#(9?9? B>R$E+&";U96.G%@8K;.QF;+4UBQUC:R1]^SE9FS*V!QCX8NGW MIT_@5@>A^XC/L0\8R6*Z&UWGD]!APTY$00 D?4*G4ID3/C(2C] MH8X(-><-."1E%"F8@$58B$RV1@L=45$?+WBC%WSXC-T,,QJP0X>>$E1E!4Q. M$\-Y[%JX 288873INX!F(<[5/[%S!]@E.2:[I(9A*(?5G,L[5/"VV[[,ZQ;6 M)U)>8WZ5K*!SP V[3GY=/3SNGYBL>;TN^'T^ ^YJ+JA'KYGUR_>%W$W:]L0?[MCXVO@K*%7_]"? @%02P,$% @ '8((69E&UL[5;<]HX%'[OK]!X9_9M"\8V@;:T$W-I=MNTF83M M3A^%$5B-;'EDD81_OTV23;J;/ 0LZ?O.14?GZ#AY\^XN8NB&B)3R M> +]O6N[!3+ MUES@6QHO(];JM-O=5H1I;*$81V1@?5XL:$#05%%:;U\@M.4?,_@5RU2-9:,! M$U=!)KF(M/+Y;,7\VMX^9< I.ATR@6XP&U@@?\YOI^1.6HCA5,+$P&IG/U9K MQ]'22(""R7V4!;I)]J/3%0@R#3LZG5C.=GSVQ.V? C,K:=#1M&N#C\7@XMLO2 MBW A(5M>5 TR M6'!VULS2 Y9>*?IUE!K9';O=05SP6.XYB1'^QL4$UFG2&98T1G*=D 4. #?$ MT4Q0?*]!MHK@PI+27)#6SRFU4!H(FLB!]4>"(<7K;YH] M5Z%82=J$^!!&&N*<<^9ST6S[!Z5&T?95O-RCEU@5 9<8WS2J-2S%UGB5P/&M MG#P=$Q+-E L&08:7)"82J3E^34@3_BNEVOZKR2.FJW"$2M"/F(9 M-AIRM1:!MG&IA&!:$L;1>$[2M!'\6:PUDSY@R.S-D77.UI$.$9)>-T(^8LZ+ MD!& 'H8X2IKMHG%8!/V>7L-)P>B"RV;]N'Z&U3-L+([W1]072N0/]J<_Z3(T M!Z.:60F]A%9JGZJ'-#ZH'C(*!?&Y'C[E>G@*-Y;&O%"N@GL!]':-*K^(+ M.7\N?<^E[[GT/:'2MSAD6R4)RU3393>* M$IY"&V[I4_5*E=?EK[DHN#Q;Y.FOH70^+,_Y/%_GM,T+,T.WF)&Y M"M-2D&_#^>G%>!KB.=D$N7V85VWGV-'1^^?!4;"C[SR6'<>(\[(AI]&&F,_# M0X=Y>U^89Y7&4#04;6RL)"Q&MV"XU_$L%.!D8"V@!X.O40+R4E5@,5O& RN0 MHGQ,C$7H<.>77%_CT9+CVZ9EM6ZO*7<9;2)2.<)IF!-GJ\K>9;'!51W/55OR ML+YJ/;053L_^6:W(GPP13A8+$DACE!>F2J+S&5.^YRM)Q%4XOT4SMA*7&+SC MYL=Q3E.X$G:V#P(RN;LYJ7IE,6>F\M\M# DL6XA9$N)-7>W5YYNTB42%(JP# 4A M%W+C[^^3:G>,U_HL@6V$5#)DU1?*0XG!/3-R0]A4)?.NVB8+A=OB5,V[&KXF M8$O#>FZ=+2?_VU[4/;07/4;SHYG@'K.' MYA,L0Z1^P7V*BH 1JV*^NJ]/^26<.[1[\8$@F_S6VZ3VW> ,?-2K6J5D*Q$_ M2P=\"Y(&8XQ;]#1?CQ1BK::QK<;:,0QY@%CS#*%F.-^'19H:,]6+K#F-"F]! MU4#E/]O4#6CV#30,9FV-J/D3@H\W/[O#;#"Q([A[8N_ 5!+ P04 M" =@@A9;9@58,T% #!'@ & 'AL+W=OV%#>MEV^D'8 CRQ+2K+D/S[M'ME@]ZE\8#S+E\2W\Z)'1Y=7TF@KU6.Z$D*3ISA*TLO62NOUNTXG]5) 'Q5&'.4Z_$,P:8U'^;.I&H]DIJ,P$5-%TBR. MN7J^$I'<7K9H:__@/ERNM'G0&8_6?"EF0O^VGBJXZY0J01B+) UE0I187+8F M])WG,A.0?_%[*+;IBVMB4.92/IJ;N^"RY9@2B4CXVDAP^+<1GH@BHP3E^'4ZP5;+>$[6+JXVOI9]!/-7EX7@L;*1Y. MG?9G&Q(:U1"I5R+UCD/ZG'&EA8J>R;U82Z5M>+B45IFM4CPTJB%>O\3K'XF%! 8#:_)PI;+?U78\-+XAYZ#D'!S9,A6'>22?!NKSB&LM>)1:$XF& M-02* OT+=)#K4S^0VC 3YF,5SH6Q@N(;CT+;;'3@]&QP:VA!N6,(-CX&[M%\O0#*.0QH\\MK917,>3@7@*"[.B8'>)?VXC134:DE*GFE2=8UBA<%)!^^2F MJ9Z1F89.2:0BGLP2K9Z)0;'.MKCZ]8V-&]JBOS"1]!CD! _X$[D+H).&B]#/ MN9&6?$!R0-O.Q8 -AT,K+QKB%9FB.)VYBUMV8>G2F["Q+?G&=?T)E;04S@D6EDDBAN;MZ!3F6H>D;_" M=?TPA2L.NT[?M9*>PBS1RBU1W.3D#78";]YZ,%R@WW.L6*?P1K0R1Q1W-.^E M# F:KF2"F8<#(EU&VQ?4L?.=PAK1RAM1W-@\A!ILD5P0RKZ?_T!FPL^4?6FFI?]X1M9"A:F2B*NQ^P MOD&8+,GL.9[+R I_P#Y=_SFS_!5/EJ+6'1X0^CB9 M74^L*U \L"EA99#840;)RY0R:YABX9*G$J:4S+KKB SL3W M!4B 0%"(65E/X8)8Y8+842YH%O,H(E=9"]]3>XO%=>IV3_"PIGB5]V%'>9^; M6*BEZ9$_@8)>6? EPH=I=!3RN*6!E>1CN6/;Y6PG('TQ_:[Y[8FRHN4X]W"NO# M*NO#<->R'UI?S>NS?#.;?,HT&-G$3)I6XJ]D:G;U4*CUQH/;1$Y%-::[L"Z1X0'-\UE97 8 M[D\FL4B"?)?O-N+VE.$"]8WT% ['K1R.>V#79K[[>1NFQJE_$6 \;^&A=2] M(%:W/8N'-66L/(Z+.Y*WC+L-Z7I*7.XSLS*>PM^XE;]Q<3>R-W OTXCMN!^0 M:[CRL].4^&8OLC@O+)^6Y[.3_%2R4WU>'.Y^X&:> M3$DD%A#JG]@P%/%>6EQH^4Z/W*<2ZUEG%^N! ^$,A_ ^X64>G]C?J \M1[_ M!U!+ P04 " =@@A92EZK>I0' "]0 & 'AL+W=O;>Z\W=NTS3WOU, M0(Z9 G(ED;3OKW\K3(R-%CGO)K^T8%;BNZN5/BN1BT>IONJ-$(9\KZM&7\XV MQFS/%PN=;T2=Z;=R*QIXLI:JS@S-0'U\2Z^T]G^G;;AX?53[[]VSH,S=YD65[+ZNRS,YG*6S$@A MUEE;F4_R\=^B=RBR_>6RTMV_Y+&W#68D;[61==\8%-1EL_L_^]X'XJ !#2<: ML+X!>VX#WC?H(K?8*>O&@5/2VAG M5E>R*6!01$'@2LNJ+#(#-Q^R*FMR06YMQYJ_M)D;5'"DS? DC'RYO2:O7[TA MKTC9D,\;V>JL*?3%PH >V^LB[]_]8?=N-O'NW]KF+>'!G+" A4CS*W_S:Y%# M<]HUY\?-%Q"%?2C8/A2LZX]/A:)52C2&9%J#S^>8/[L.0KP#._^/.]3;+Q>4, MII06ZD',5C__1./@'>;="W5VY"O?^\I]O:^N,KTA,&HDMQ?B6UL^9!4XCX[B MKJNXZ\HN"P\KFD1I=+%X.'3'M8HC2N.]U9'.<*\S].K\)+1196Y3TBJ=PY3H M!@F3N>LI.A 0T>5()&:3XA*CO<3(*_%V(Y4Y,T+5,!T>0&\]%_E@W,Y3*K?)D=OV1FOU!G1]XN]]XNOP%)OZI)QNC@%[]:&#B$N>]G%$^$N<: M)33*I:5[::E7VI?FKJPJF&M#[%!]J1L\GHR#YQJE-&2X0!H,N J\$C]+ XF\ M'J4TRI['3T61N,P8F9IFO()H0=P#KJQD$>C:VO=V'$R>)&.MB%F:LF1"[4 KZL?51UA8&R-5.1%' M[KR6,<[&XA"K.)F*Y$ HZD?4C1+;K"R(^+ZUA93NL"K-1J@G6/F2U 42#V)' M.8(M1]>B.H"+^LFURX%GB'21E%*>.H./F/$PGE@NZ8 OZN7%N 9 %<;(2NV& M\835L;X!.-1/G(][ZMMZN)-&6R(O@ICE\^NM#(_B!80YM),Y:\+FG09C!?4 M4U;'\@<<43^/NIW;F5R?M5KT20 U_I];H3)3-O>D$K!+\JP,+H27N+]WWO) M%^KMV.F!@'4Q!M0Q_RH X&JM0"1M:5T M9H^04)$NPY9Q-"8=8D4]R3V0COE)MYN%6:_U((-0J2[-HM#9\")6X9)/%#UL M8![S,^\IR[>P] [6G<7*]XP21=U5YWX47HPCJAXLUGB[3L1^(U3*9FJT#_)@? M?M=B+< 3N^.!"K/%$]=%5YHX=$:L:$#9E,(!<,P/N.,B[51.N-SB0<2=8")F M4<(G2@D^X(W[\3:.9H=AFQOY<;]@ATP(V)P(T9Q."5[@!_GR3=(>+>?(B]T-Q<* 0=VC=PUWTW$;"JZ!R>-_KW; M;E&KAAC[4YB[NS3*XO$A&6K%IP(Y<(S[.;:;*<4NHA:!E$TGF2(69BF4Y#@ M \JX'V57LJ[+W2%C5_3:\R3(3@'[>-A\OOZ/-(+0X VJW-LS7B40K-QX@8Z. MO1\0R? V'F;=&YE\WLBJ$TK_TNRNTON(O>J+Y4KT=>SW@EOMQ>Z.>5E9M_9^3 M5\';(@HU%N*/&15*PBL4D1O,B7>D6@.SW8WD"*MV4A5_E<4!MA96%[]UC9B-WQ/GZ8U.0[D4#IP? ^GPOBA*2S%8TNP)U5G9D#S;EK#$H2+=HB!*.7,. M3#$[V/[QB>.H<*@>0G_U #5Z6[=5]_VQ/S^#:EV)C?UH_" (1I=CT.W*#AC M8]6(T42BAD/=$/KKAD/!A5B7>8E_ET(. <"-.E^EX,F&&8;J,I@JS<"0PN?L MFC6R=J*'W2H@IF'H?$MSS9(XGOH&$0X%0^@O&!P(=W/OV>*1KY78 0!]AQP M+ Z^K=L_;/@C4_[OQ78W1BY[3ZWWTEC9-U=;D0&LJT! M/%]+ ('1_8[_@[_]B8_4_4$L#!!0 (!V""%GGA;KH!P, '$* 8 M>&PO=V]R:W-H965T&ULK59K],P%/TK5D!HDT;CI._11MHZ M38"$5*T:?$!\!*WL>;8P7;:P:_GVLE"NZ:O03^T?MQS?,[-=7-*ZD>=4JI M04\9%WKLI<;DE[ZOXY1F1+=D3@7LS*7B(&I6O@Z5Y0D#I1Q/A2XYV>$"2\: MN;6IBD:R,)P).E5(%UE&U*]KRN5]['5\\(=6Z3&+OC1*"<+.J/F/I\]F/DU M2\(R*C23 BDZ'WM7P>4DP!;@(KXRNM)K8V2M/$CY:">?DK&'K2+*:6PL!8&? M)9U0SBT3Z/A9D7KUF1:X/GYFOW7FP6F'3L#3R4T#DIN+F3JX^T M,M2U? +'DVGVC51G;'WHH+K21604&!1D3Y2]YJA*Q!@@Z.P!A!0B/!;0K0-L9 M+94Y6S?$D&BDY HI&PUL=N!RX]#@A@G[&&=&P2X#G(DF4B3P4&B"8*0E9PDQ M,+DFG(B8HIDEUNCL7I B8;!SCLZF1%%A4FI83/@Y>H_>(A_I%%;UR#>@R3+[M<77^=7E^N.!$X5HH3:^0"$..PWPR7[X#8T!'CAX>Q/N0R;J=(1U.D+'U][! M-S-@'ZK4(#E'MTQ $ACA:"HUI!&P6U]Z/):LG=:>:V%_)2YR2F8P]N MG*9J2;WHW9N@AS\T&?]/9!MI:-=I:.]CCZ9PEZA24 A0@/'C![S8-B&@T[MH'.:@[) M$2E,*A7[#1O62;G:*+_D[Z(IZF+W>:'_<-R&@6YMH/LJ TSKXK#X[I:HE[+W M16P([M6">Z\2#.\.;8A(F%@<4MT[J'I?Q(;J?]VZOU?U1&89W.M_*//^<65^ M,&Q# _]6/SA! LDU/MA*9XAQ8Y4?$[GA8%@[&)[LX.+(*A]NB>KC8=#95K\= MV!L.<7>G^ #_? 7WB5\@_H>8K_B-,-$3N<.&O]0.V&?M"U()C3B= Q2W^L"A MROZFG!B9NQ;A01IH.-PPA9Z0*AL ^W,IS?/$=AUUEQG] 5!+ P04 " = M@@A9+/M]B7@& '1(0 & 'AL+W=OBKSD-Y.M$+NKZ92OMK1(^"7;T5)^ MLV95D0AY66VF?%?1)*V-BGQ*"'>8%DE63N;7];W;:G[-]B+/2GI;(;XOBJ3Z M]R/-V>/-!$^.-^ZRS5:H&]/Y]2[9T'LJONYN*WDU[5C2K* ESUB)*KJ^F7S M5S$)E4&-^#NCC_SD,U)2'AC[KBX^I3<31\V(YG0E%$4B_QWH@N:Y8I+S^*?BCCW^1EM!ON);L9S7 M?]%CBW4F:+7G@A6ML9Q!D97-_^2I=<2)@>2!#4AK0'0#;\# ;0W M2T?P6X-:^K317CMNF8AD? EVQ1U0IM&13'VKOU];27UFI$N5>5/+;3-J)^8*5 MJ0P[39'\Q%F>I8F0%_="_I/Y(#AB:_37CE:)BBM';[^6R3[-).8=>H^^WB_1 MVS?O$-\F%>4H*]&7+=OSI$SY!7IS=GT]%7*Z:M#IJIW:QV9J9&!J+OK,2K'E M*)933 'I=T^L-A/I9LZ7Y&CKSX2*^'O^_(2N-WK\ MOT<_^*[Y(5O9G(XL9I=:"3^<_ MX<#Y!?+JF&3+,GHX=:X) (MA5"7**6@(HW_').2HV4:[G.GZ'.M/I=SI]:YXM&)=%2%80Q)HJ M5&X0?=JIF@7GGC]F[HU)MAR3+!Z)["PF01>3P)I[*B9J7]A5+-VOQ#$+H6@T M1/Y93@1:XBP $ YG6@Z:H)E$:2EH@L(@FL$9&'9J0ZO:.^F_I%IMZR1,I=2< M[=36",D-C?$Q]K"VG!8 *G1=3Q-LH@@)?&T!QR;*=:/9@.19)WEFE7PO&S>Y MT"[0AI9RT>6U]"25_4?&A5J$!S#8,U.7'X184P^@7#? P-?4FBLQ\5^.*(508 M#)2]V*QD;[.!*VQDC.YH6DU$J"7 \EF2V$1@;T B=OJ^ MS[&*_"Y? S)BEV252J;FQ(KMK2R*6Y)S^:BAVX!@#1)RY?PQ%:><]DG[2Y^ MP;:YLFPJH&QLKC(GQ'IF0S W\B)=O GSHT!/C!B A8X$#KB]"X@5A?\P3A' MZXH51_&RKP=%$V\]X2$KEZ](1PF 0ETV0!.;09ZNH.X@$1X0'C?L6)K0S;_ M5 HJ-T.9]>6*%6 %:QE.QX[TP"P $,8$ZW(!U&RF%S 18@3#4CMFT-L[PX[MJ? VJ;O/[I44W+I:QC.W1S-C;4,H73F P;YCQ!F N>Z \KY=Q-;.I\GN!IF M%6WCC$3R-+"L?3##/4,T@,/8Q_J.#>%@""<#&U@)#6(P][0QM5W9-C>DAW% (EFSF_.6"W5"EJW0VZQ$*GDG$NSH(,PO==>PC!]MXMAF#]4S?LF#=N[-,@A:9;OU?'5 M#[@D>IE+0)CI$A!FN@2$#;F$]#T=L? =TW^IC4:D_.W78)_TCO]OMZ\ZGM*968P8ZCY@-6NBXH;;Q+P!8$/JAOL1 MM.BV!YS M 6R2;] M(GUG2.R=X8C..TU#F_N@!@]PGPD#W0>Q >X#V"SNZ[M*8N\J;Y_ M"[S_.C1S*ALRU'9XK'8SF/1-[KD%6>S9-3#V5'9EJ.RQ6.QG4>A[\'):T]H MB7EB&A#]A&M6M>OV,.W!D .)ZMC,-M#MU^_825.@ M+JHV7H@OY_O.Q9_QZ:^%O%,Y@";W)>-JX.5:+WJ^KZ8YE%2=B@5PW)D)65*- M4SGWU4("S2RH9'X8!!V_I 7WTKY=NY)I7RPU*SA<2:*694GE[PM@8CWPVM[# MPG4QS[59\-/^@L[A!O3MXDKBS&]8LJ($K@K!B839P#MO]\9=8V\-OA6P5AMC M8C*9"'%G)A^R@1>8@(#!5!L&BI\5#($Q0X1A_*HYO<:E 6Z.']C?V=PQEPE5 M,!3L>Y'I?."=>22#&5TR?2W6[Z'.)S%\4\&4_27KVC;PR'2IM"AK,$90%KSZ MTONZ#AL Y'$#PAH0[@+B9P!1#8A>ZB&N ?%+/20UP*;N5[G;PHVHIFE?BC61 MQAK9S,!6WZ*Q7@4W.KG1$G<+Q.ET*"B&IPX9P9$ZK,BHQLF-Q@_*02LB9KA5 MH@ASHXX5D$]"*7)\R^DR*]#VA+3([:,ZOL8(C1]_ M6D=S4443/A--1"X%U[DB8XPJ<^!'^_&=/7@?*].4)WPHST6XE_#CDI^2*'A# MPB",'?$,7PZ/7.G\G_?Q/WO?*D;4:"6R?-$S?(THGFKB Y^*$LB/\XG2$B__ M3]?95^RQF]W\()?;4@DYAX*&Q KD"+WW]JM'\WTU7^"MFQ2/-\K'-)6&':3I.^O-@OK,&NW$R.@3;.1PRR*PTZP M;39VFK7C1[.M-),FS62O$K_H'"29;D3O0I-USY9T<4G:')!L=DFQ\(+*M\^@T MY]'9*[M;CCT**_[@RV&.@9@.8$4+1B<,6MC,M!1E0%0NI&YID"4^$RM0VCXP M;P@'^X^BZ;WK^"K/R:."NCN2?6JR(\.1@V17T>-

]+%M5Z395Z>ZMRO")/EWY M=9W7LA/NY.@PR[/=7)UF3Z^EO]%8E"#GMJ-3>/&67%?O1K/:-(WG MME?:6;]H]X9MQ_H(F\RJ)WRDKSK42RKG!5>$P0Q=!:==/!A9=7W51(N%;6LF M0F.39(HV%0P>P.GDWZ_Q+*0+(/])/.E MVQ?I/4+OD4"/I3>/9?6IWG#>.%^V>5'?SC9-LWNY6-3IAF^3^D6YXX7XYKZL MMDDCWE8/BWI7\63=5=KF"^2ZP6*;9,7LJ;
[[$UU=U/NFSPK^)O*J??;;5)] M?<7S\O%VYLV^?? V>]@T[0>+NYM=\L#?\>;#[DTEWBV.*NMLRXLZ*PNGXO>W MLU^\EXR@MD)7XM\9?ZQ/7COMH7PLRT_MF]?
KVYG;MHCG/&U:B43\^\R7/,]; M)=&./WK1V3%F6_'T]3=UUAV\.)B/2#Y9RJ@O@(:6\'O M*_B#"B@\4P'W%?"@@G^N NDKD&&$^:2GR;B7K-W;(LUB)/^-H1K^HRS]9)(]Z\:\0_D4!- M[93WXEV9?
MJ4^9I7]=\<^L<^:[XZSSX4R7Z=B=+/G;GSX=W*>?;3<^W5EN5V*_*T:ZBA]LI> M^Y>U. Z1YTGNO$FRJ5P:6T M:::K?[O.N%_5;'@E.G8K!OVF'8V? MN?-;69NZA8U77?'[+,T:560A?
#^:CX[FHTX5GU%]Q1^RHLB*!S$X\Z1(N?-, M"]J22I>/W>21H1*7SB^][.#7(1,9EKUVUGQ9;U+4GX[$SU0\^HSG]W]]2]> MX/[=9/%!C'1B[8SX^2X@D>>YKGNS^'SJ)F14"BG&@,04-_VCF_Y$\- ,
M3CK=PSB,0[7+EWJQ8&"*7H($@1MY:C&J%QNXR_02%ZDX]=8BQT6?=*^>MW.5<6[[[]LRSQUZGCJ-3-V&(1,?4FP%*48A MQ1B0F.(^.;I/K/(C=5WONS$A3F?
IX611M\X[^YUXR;_P*LWJ[MO#Q^6N/2'4 MIQ.B*0V(-F4A#Z,(#T:/L9@^KUD/8:IUD&(,2$RQ+CA:%WP/ZTQV!=E4@MM9 M4?'*VIBI@S'0C-<"4LB
#$A,,2H\&A4^P:A*K"*:24Y^2=G*!.,*L(:=.M*%F M1Q@8QB%D3 HIQH#$%'NCH[W1=?8*].R*/JUXF/6;)Q$#,S#J;1.YJG4,((@,[[&G^C$])@6-R:#45$M.D(QGM>1]\D4,EUV2 MK=N39K?
F;\INS'23I%/SILF[D=0.HGZ,C3N;VB-/G4M[M5-OY@'1YU+0]!14 MC4&IJ5Y+ N/9$0<2FH&H-24(PN\E5V?,2SHQ,CN[]LI,XS/!2X7C!,_?!RZNM2 M)(AC+QRFOEY.2WV]R!QC/W;#,ZDO
807_4"$[X%R!5"U%:@:!55C4&IJ$D@" MX5V)()Y&\NU1)V># 2,8?L@$#4I!U1B4FOK+M.02R,XE *D_TA&*AX>7! ;F M3!V_8T)2T) ,2DWU2T(+9(<6WP7^VV-.WE^@XPH4&7
%:%0*JL:@U%273S:, MV'"%G_8;@+U=DS-!1Q8H),B0*K!;36#WFGP/!H(D TV%!O*C?PI .D4(PN'V MDJ6]T9.G\3$Q*6A,!J6FVBJ9"K(SE2F_!R =:!06WW8 TZV9$Q,"AJ30:FI
MED@H@NQ0Q$8;D8$S>!YIUXNJ"9#;05:@:A14C5WN$=4&"5Z0';P\D3;.U2>? MP0S4Q4P;0>-24#4&I:8Z*JD+LE.7*V@C,B$7 VU$EY&+09XS@DYS+?EP#"=W\@;/0A MU_I+4+45J!H%56-
0:FH22*KA/X5J7 T;?9U$A"0BPRMG4S%?G^GLQS#9/U!> M :6F^B=YA7\EKYA.$?M(ZIT2P\ML>W,F#TP=4V@A*6A(!J6F^G5R"\N54.$I M%-$>< .+7E5\[[#W?[*MVT M(W8G+C,O#E-
(#++#TC=M"#,/4%&6 JC$H-=5K"3S\:V^\N>BUT5\=6:!@N"O. MWJ3)XW-$2 H:DD&IJ9Y)L.';D<84?.L;;H>)B'9) WD#RVI43 H:DT&IJ99(MA.++;$8H-W_HZSIC[V#
L0'>7@*I14#5VN4=4&R3T\.W0XW S?JK@+ M8GN3)D_7(T)2T) ,2DWU3$();(<24S@1UI?D.(B&S\VQ!YSLR)B8%#0F@U)3 M+9& ML!A8T38=-Z'H7#O4)+>XC))H R"5 U=KE'U.>$22Q!
[%AB"B&F6@*J1D>TGQQ*G%D$$PD*R"0_!7]V-6G7@$0PRX+, H!C4M!U1B4 MFNJHQ!K$CC6N0#]$WU!A0C^&8L/EKZ&($?T8RNGHQU3(B'X6)T_=;9 "+-;[
M#UE1.SF_%S7=%'Z'(J.KP8./#FZ;<=0_B_5@V3;GM7FYX(BZ1V@+B^_NR;+Z] M:9_M>WR\]-W_ 5!+ P04 " =@@A9,B 2)H$" E!@ & \AL+W=O M$]N M>84QU87OZ[2 DNHS68'
G5RJDAHTU<;7E0*:.5#)_3 (IGY)F?"2V*TM51++ MVG F8*F(KLN2JL=+X+*9>6-OOW#+-H6Q"WX25W0#*S!WU5*AY?2TYN96-I^AB^>]Y4LEU^Y+ MFLXW\$A::R/+#HP*2B;:D3YT>3@ (,\P(.P
X=\"H@X0N4!;92ZL*VIH$BO9 M$&6]D09*OR'7]S4SC^3T3M Z8^@]Q=+JM"Y ,-2RD?D';E;79'3DQ$Y(4R0 M;X6L-169CGV#FNW)?MKINVSUA2_HB\B-1&)-KE%G-H!?',=/C^!]S%6?L'"?
ML,OP*.'76IR1*'A+PB",AO3\, R9G*BO7^3XHA?X^D*]6*>?\[4V"I_+KZ'L MM^R387;;0BYT15.8>=@C-*@=>,GK5^-I\'$H]/]$]BP1DSX1DV/L>)$U7E8F MTEHIO,!XZU(11-/OFT
MHOV#EUB"VK@&I5%*+4S[*/O5O@?.W=/WG]S;!GI#U88)33CD" W.SK$AJ+8I MM8:1E7O7:VFP2[AI@7T&PO=V]R:W-H965T&ULM5IM]LX M$OXKA&]QV
7J6J(HV>HE!EIWB^L!NQLT[=UG1J)C72712)%)<[_^AI)BRN*(M<7"^+XDE#\?/#&?F&;YU?VBV2O!\W9052YH$"2+BA?U;'W5OKM1ZRMYT&51BQM%FD-5W K];7^CX&EQU)
(7E:B;0M9$B>WU['WX M;A-'9D K\<]"/#:#S\28!0:1*$6FOH. Q[$1I2ET00X_NR5 MSHZ_:08./S]K_]0:#\;<\49L9/FO(M>[Z]EJ1G*QY8=2?Y&/?Q>]0;'1E\FR M:?
^2QUXVF)'LT&A9J8,!0574W7_^HW?$8 #HP0?0?@ =#V 3 Z)^0.NY18>L M->LCUWQI!>0C448:M)D/K6 :T6!-49MIO-4*OBU@G%YO9)W#I(B"3J!(R&^RUKN&_ IH\M/Q"[#H:!9]-NL#]2K\
MQZ%^2Z+@#:$!90B>S?G#(P^C[8R\4UT5]WX5MH0O1O,/2-F)GY*CGQ+O!'X4H#0K>%=LZYSP M2BI=_*=]@5G>J8L'TT7C,!G-*2*4L@2?T>41Z=*+](O(#QTGP$3IG8"94^JI
MG:M*'FIM*I@RU7PNMW.84,*;1F@'T,I<.O#!.PI$-KA 8NL1M6!UM6'EMN-4R M^SXW?)233%9 TLVDHU?.[R]7<30"Z0K%,8UQD.D19.H%^=[XC135GA?*)% ; M%A(\KDBVX^I>H#Y-
79\F\0BM*5.1Y6%@>2WP@OWUST.AGT@CLH-JTY4(KFIP M[U;)BIA\X2K;M2;DX@'.F7UGTC&]418+/$ [4Q"1>1BN)LP9T'3HKZ>RGK<5 MJ:BU /2:B\!F2@0*,W0P1&SL=%D70K6I-G!=W, M7X$-
#Z*OP2A\ZKJ0K99C_*[4%'Y+TZ&7$]=_M,%<'WT-/1".,'*#FHWQN3+S M<"(#0TNK(?/2UV;':TBT$2>U!:V-Y;+@=T4YS4^AE[9?2U"7TG;J#$OEH9N+R(7-* M.2(TI]$$,DN:H9\U;Y2
.IX_EY%F4,P]SD2XCP5T#!BAT8BR"<26(D, 1[[/ MVEK2D#U_XGDQ?(${?LTP=1@0^=&O_]2!%41-< M,IS3.%V-34#$PB!:3@0&M<1)_<39U# Q%M*I(+-,2/U,>*-D)D3>=-UM MP\O7PD?
XS\'NE3D%;@F2ODR072MH4N/\'I$B!!@OA[L#/6A7;LK9ECKI2]0Y M=';%M5EA/!F'OP*_RY%1$#CH7:DI])9&J9&3KU3SN>MV*J^]"&TH=+)=0T"YM M.H@1 E[&4Z MM5(_M3I%M$!J$PH9H63:/
6T/[%O6, MG3\O*[]ZZ^]"VDZMMJP<^5GY-$/$#Z&RPO28)D7,3@=PH&F.T!F+7!ZFJS%9 M(T)LT'.U+^21$_W+_S!?[DJ/[-9'+ MSQ$=DS@B-)$TT6#3V;^:G38'.M3*+,E;
R";,EG7_;G*8Z%W+5>8S1/@$5@8 MW"LAIH@CYX]1"1%9)/#59EJ4>O(6_;>>?B#O>Y2\0TC:F3(Z[85$A9NH[\='W#GUKF,'L[@,X& M569F P6+$'T"QLL#1&H*JZ7IR$_37_D/81:+A5D
MS>F#A3]RA9]@13XN[JUP12"*)M8XD67LR,_81_*#?NZAR,&.NR>R18@%A>T2 M,DV#U7BW"A%;#=?-I] M;TSW79;SLMV/+F5S4!T+&E.V)6@LZNY"!% 'VIPQ M;]_PVN;L4MI./6+;
N9O"SX_G9*8THA:BQ!VZIS.(EO@$R6;#0Z-_9S^N8;. M41!!K-PH/)>%0R=)$)ET8FN,6:)F_K/CDUBRIP1V*0+Y@-5E/*8N>E1*6VG MGK%]?W!1N^+XQ3VMWDO(`5L1CT9G<'#>[2Y$EX@L[M
);)>-,3$6+1!+\N MVRBP%QH%Q>MF"YU]VW_AFR:F=>B/67:BA&F6JFTL45/<-B!.QY:;>=N-5T?>A;2=&FT[#.;O,%JCS52-B0NU'#F,7L7I>*<+ M$4MI,%4_8ML^Q/[VXM()HQ=+$-
J/E^.P0J1H$$]D2&Q M@]C?&GR5)KG_M^8M/]VZ,62_J V/8!L7]M?WOVUESL+L5CE@0.T(\'B\>6 MQ6,_B^/=VIMV-L[?ANQ_9.CM912F3EA==$M^,;BN6 EUW][B;$A[NM==\3N^ M/=X4?
=_>CQR] Q"^VW3W/:V:[OKI;UQ!WJV04FQ!9?!V":.INAN=W8.6^_92 MY)W46E;MQYW@N5!& +[?2JF?'\P/'. 5KO\+4$L#!!0 (!V"'%FO6U5, M;@4 .<, 8 >&PO=V]R:W-H965T&ULG5?;;MLX$/T5
MP@7:7<"P'2>]H$D,Y%9L"W0;M-OMPV(?:&HD$95(E:3LI%_?,R2EV$42;/ZKKXF"N&DXT\G=0C=Z_GV(X.3TKI6!BQ=-?>= M(UE$I;:9+Q>+%_-6:C-9G<2]:[3@\FP\5%7 M=>"-
^>JDDQ5]HO"YNW98S4&V-<%2>3LX.7l\?'L7P4^%O3UN]\"XYD M;>U77KPM3B<+!D0-J< 6)/YMZ(*:A@T!QK=LV M^:*+4)].7DU$0:7LF #1;O^@',]SMJ=LX^-?L8)Q%YBH;.D^&E@\8>B'>6Q-
J+ZY,0<6^_AR@1F3+ =GY M\E&#[WHS$X>+J5@NED>/V#L<(SV,]@X?L/?!5=+H(Y)#G8H+:[QM="%3;9A" M7#OR9((3 MCGVY#4U63Y\T1C>T6/6?R61_\N0>&M$J %;&!O(BV!Y*7HC^T(
M*H2R2+SQZ2MSBT4YTNA'1=]>F35\OEXOC"MITTM].X/#B^VR[H1ON?M[?T M\TY_)\-IS+NV=\,NVIQ%EDXC+"Z&_0#0\]K)<2 MA?;*;LA-T?8;C+-N*LC4B(ZFT9BR;4N.8]7?F2;(3$6-L2 Z&
(-"QZ<4(WTGGV7HG,@5QLO&GAPLM*F$@B%]SO@"YB:,8JKC6T@@&@/7AX= M YG#E -8PGX?4Q=(U<8VMKH572,#NX]!H/0VVO:^N<48,9B[172P'M(LP=36
MWJT]53EGUSM07.T$\2<'*LYU#$9V!/*A%WVCM%SID.M71%E2_@*?C62QD9F2%+6W(Y;T!88V#M,:W]4&+3> @#N"M1-(YSU%D7(OD #:>@*.+.1BYJ M3:6XNB'5\[4M/I2E!M7BMV$\7'W(_?
W[-"JHJ) Y \2"E(XOAU9^Y9:-+<9= MMMN+[!&NK9(\TH /EA2A>,^ ,N/E5"261C)21Z8^^K6VV $X-%8B$;-C#=8B M'Q:^06'5##3)-3ZS_$Q*O69^(S[R_&L\L+@-?F3X!UK,7F#
M6IY<]P]2:^[+8#PIQ24I:CE[ASE]LY0Z)F3#@:;T:.VKOO MG3+?>7SB^JOB$QNV>/BD=^BX.[[BS]+C]4X_01X+UV5+K\2JHO9R^<3X=*S M.BV"[>)3=FT#'L;QDP<=.1; >6EQ?>8%.QA_VZQ^
%!+ P04 " =@@A9 M<9; >&X. ?*P &0 'AL+W=O/)#"P&0 'AL+W=O/)#"P6J6D^V/GR,V*2NF@;%Y_NK5):/SH\C-7*M#H>^+5Q M>++PH=4)'\R,*Z#T35O:IO#DZ.C^X>MMF[OV1/^[DUX]L1WJ;'.O
DJ=FVK MP^5ST_CMT[WCO?+%6[M<)?KB\-F3M5Z:K]\$?#KL3ZEM:URTWJE@%D_W MSHX?/;]'ZWG!WZW9QM'?BC29>_^1/KRNG^X=D4"F,56B$S3^V9@7IFGH((CQ M9SYSK[^2-
H[_+J>_8MVARUQ'\\(W?]@ZK9[N/=Q3M5GHKDEO_?9GD_7Y@J+B;?YLV0H+5. M47V0ZC#0^/;MAPDC>E_JYEU: M1?72U::>[C^$!KT:)T6-YR>W'OC7SAVHTZ.9.CDZN7?+>:>]64[YO-.;SKM&
M2_7/LWE, 3#ZUW4*RWGWKC^/0NM17.O*/-U;DZ'#QNP]^_Z[X M'CV^1]EXO M[;W;3O^_.?' ?ZNZ^9 WP;K*KAO#CUJX%[&GEN?O5@;Q7/EVK=TEG=SLS?\Y 'CNZP][=+K-
4RBYXU1H:/3Z$$PRZYAE?D@6G=NJB[89/.*EQ?5 M2KNE@8':UD;.E>6>\Y2:M@#'LXV@O52MT1+Z%JF+YJ\!*R]4PA$_ %-B8< M50#E@5NR31>SJ+_#(NI$ 2U?YH><)UY(^]0/7[P.
(J?;X$9R4>2=>N,&F)4 M"KAP0$N,2+AL::P8\IKS$\-+KH@%TY_R"7F606+<'V!K#_ MSW*R%WM%W1IB8*@7.GYY@,^*W?W:NHRN5CLP3UI"P%X05>00T/4'4"_9BF4: M=D3V:[
&R3=P-.C4%90@)'%O[P4"Q%JJF5IH&U XR-B#7&L?K612/OT]"K$9 MI)(?@GV'7 *H$ONQ!/KZUCN,K68O3PNAQ!D*,2+?!;R6%?#]<2'2XR5U70) M0*D6'>LWO8L 4:3 C4@#G//^&W>7Q)-
R1>^RR5_XVE98Y)O7KCI@HU@\V*X\ MU6&_I<00 ,=-8<&J63HK(P#$. MU/O(UGG9HYVTW$E/Y-BO59P6456UZ5)2#*?3G%\I(1*06OW1# $W4Q^Z>CG4 M+!W13*U%*T[MK09+62P(Q^)52B-
$6-K>LMAC$DYJK)[;AIG$3-&EZ9*"8&-< MEXUF+M:D3:$B#2LS5 D,-YII;> MUUM+01YLI%!&]TIKYQT^D7"ZPBZ)4"P'*$-GZJFYT)95'Y7>ZE#3DDSAAJN1 M0_PVHR]&#]^3Z=C)O?A)7V6(;
;Q5ZCB]2!!63&]]"RN$4NC]Q&!F+T#E@3I? 3#[.*!%Y/56(R=6#:2UBTM.D/#31Y.8K=9F MGE0<6"GCD$/,L!4QYQNJR+D2(YTT9/6>SY!TM&K=!90K:(TL6>FX M8F?"Q#WXQ29LU)MN6H(?
0A>2R4VOU&*:],G&XZ0[9(YK)<@\#6?8=L<0'(9&8&:R_PT5\8RZI(S&=U,Z2=*R=.R3 M(@CE!-4@GRB&Z/JJ-';&C1H%" M1?GY!W$3!0VBWE 41E[=6'BWIF#-
"3!'Z]8PK*.11B1>Q1LL3"6]L6[#M5!@ M]2L=J#;S&3<;G@HV![*997LS$1,:"C0U]M\PUA*M04YUGC+:#-65DPB".BNG MF11[1YC" \X8]%ZP4LR,KT^ZYH+:RKZRCDA:GT?X(>7CBNL,\H=-
=V2/367 M:ZZF7,UR$_B::B(T9&D]M3 =:U&@L\ # MGVL8WS>Z"Q4X2Q@(C80$?!.BNB&[E"H.@(D1N5 MI5%'D.$L6 L/D31*W-><\$]"? N;]?O!M 6.I?C Z4O2GK-&= 0$PB)W5)Y
M6(#Y-.Q84Z1*KI/*UYN>]2W5/Y>49L!GE#5Z)E/94'4M M0I9!FA/\&L6!Z',G]/:*9*4Y,+V- :Y>I4(D*2F3'V#P12<(85,R)>!$UN_ % M15BBZ([2C?"M$'Y4(F'F1<[.!'N)H*D"U!
D+@F91E+8]2Z<7W*0ZU#*ZW/< M, R+;QS1'):S763JL4"DQR'_ EG06^:"248AC!XZDO7(2N$>-HFREY) M#::6R!@217Z<"2\!$0'<&DU\>[B'?4"?AA2PXZ >T"0#%QA3QQMR13[@_EG M@S!Z!
<.>4WI^-XJPGCK$7C7T4K2<_,#9G% IMWA*CB3/**.0)9"X'ZD[]NZH M]>;95D7CRY2-JQFD0V:X8[&A%U4.ZMF(C#;,%MF761)(=4,BI8^O)>"#\NG M%<7H?
DOM!3M3EU=%%)/+H%N2(YBZY(RVAV[N4MIRA(#\7.6A$&OLRFH MQ? 5\B1CC"8N3MIE[-U<58>O1!P)LS8CH_*9**;1.[X%\5*QBIR4*=GVY(>F
M$V7L,&8Q=S:B,E$$]H8T..*;:E>>VOK%M5.BG.S9%Z.0EB]8O[GP[SKHK6@ M4V^08463(^I#BMOSM(,>726HLUU[]$,-0(;;L-CBT+(;YR=[B(RBPR%D6Z* M9+NQ$L91P>62TG\L
)3YQDBXM)+16LYBM8&TN<T59M)PF[Y4>"[)V]DRKYWZ3:-)ZD4P MZE7/2486/D/3F8TD1KX M)RA!0-D16M:/,,_?6>>(^F%=\3TH[P;DO4$+L0D7:?I%,G2 M)-%UDD^EN$-
+LPYGY\/+GD0@8!G"1(8-BJ/O"-U9CIU7(%2'N/3R2I.$%_FU MK?IF&~>,),8_0[]%H%YW\P9L769P5*FXOFH9:I>!Y=PLK7,<@-P^]O/CXQ* MBJ2KEY$1.9FT75-
OD7C.29G&\0@RY05Y(#SX@9#M=N:7,TK8;1]0[:E;5G7?D8/7@WM'=1U-< S'#2O73 M<*'*&7%B;4"^*_KT!AQAV=*V#(C0?/ROT&]76L$2>/TOH1%UWR=*]<0^6
M.1(LU%@M=7TT4)C.**7)D]9<@6BQ[?1R&ZP?) MWQ3#?ZN2_QP(WY^- #B!ZZ-II3V;@/*MB6O(9TI=SS^TX*G&Z+SW_*)6?A$# MO=8C^B#=!@'F2T#/JU1E OTT88QSNF(]_@'-
!/@\K+JFI&>,CD=+\FS5@BU$]&DE+D6IYOC2\:'"C)GKLQY%*HN&5UU\CM>3M MQ8X^$&>]#D*-*M$H7\7^V_[7W^>R8\>A^7RTU&0_R4- M?1NSP-:C@P<_[,G4K'P $O@GD'.?
DF_YSY71M0FT ,\7'IU)_D 7]+^)??!0 M4$L#!!0 (!V""%D7QMI4V08 !82 9 >&PO=V]R:W-H965T[$<*QAZI4]KRW M<6X['PQLOA$5MWV]%0HC*VTJ[0!JU@.[-8(7?E%5#M(X'@\]+E7OXLQ_NS$7
M9[IVI53BQC!;5Q4WCY>BU/?GO:37?KB5ZXVC#X.+LRU?BSOA/FYO#-X&>R?% MK(2R4BMFQ.]MTCFEQG-]Q/^*<6]|3PSLF2I]6=Z^;$X[\4$2)0B=R2!X[83
M5Z(L21!@_+N1V=NKI(7=YU;Z#]YVV++D5ESI\I,LW.:\-^VQ0]QX7;I;??\/ MT=@S(GFY+JV_LOLP-YOT6%Y;IZMF,1!44H4[?VAXZ"R8QB\L2)L%]<<=%'F4 M[[GC%V=&WS-#LR&-'KRI?C7
245.N7,&HQ+KW,6MV E5"W8KMW,:R:U6(XGC] (#VJ-(6U67ZJL"?:M5GPSAB:9QF MK\@;[JT<>GG#O[%R973%KH#5(!K M-NP*\^Q,.SWQ=+Z)W^<(B#(ST[+I\R9
MVRW/Q7D/]6&%V8G>Q??)./X^U?09WOTV6O2O]9'KPHY#?&$9/9>6KY>&['F M_E6O6#OKMPT8U"7R6*HUb<+89E4H4+X5%LB_5EQ$"0*)'#'!7GC M AM\D#<^L&SYR-9,Z+7AVXV$66(-
>;;O5:^??6=NPQWC1C^2]AE:_#/F+B!- MYMRR-Q]A%@;N'%#8%UQQ0L>,:X*]C/0JG;JVXA=?[A>L#?7M4')B]@'610P M\I;%Z8O5LT_W*SN&)O%C6%3"DA\!<4H'\)7F(P8G>P?
R.PDBVL;+1=;:3B M;_M=?H&K2YNT#(@#PT .;&ZC:XO%]NT<%!@ACA*-(4V$3Y,[^?#"""4078:= MIQLCJ0!W'.4E:HKY+R)=ZC[EB51G(UQ'T:SX03W:91.9[B/HU&:1+J2:#:>
M8&*8S5@6C88SEB11-IP&@C*,CMDLBK$\2:,4")(QYH[9;]I!:1,4I&L2S28D M.TVB(3#B813%HY2T9]$P'AW2]I))(SK'H=#PBMA4*:]G.0@"WX09Z+6R,6*V6 MLBQ]5.9"[F@EONZGY=K2+/+:_AN
(.A433*1KC/HEF<'41T<,RI_0AC.MD%G\51',?A83).V"?! M-KQ@2@?E3%9;+@W:*LS<<+.&+B-*'XM.LQ5B5.42KFF@>DLIIRCXB!"+4*M" MJ(D3H493R.:0LE+EV"E8>GCJ!':/$-OZ2)3E(RL
'OK;!5XQ:DM18\+IX?\^&W23[NZ2JW6KZCRQ5B2Y_*RILAH))/5&A>#(%3OGNBA-L50 MH:LVTN#? GL^X5//ZE(6/C:;=&9^IV-;DIZG6L,4P, ZR?^,J+@__7\EZM,^ M%
[Y0BA^5S'WY_>_TFMOCW/OBVYM7N45+T04TF_G)CK2H=*UA67A!' M\I;H_THU>710,&[DI",PIB&'I;$U--&OEA.HFF" M(KOA:BWL,>KYT_"(H=#P31<6!Z.%TAVZ.2@-F^+Z?9OP?@B)
[5I5,$1X]GH M+;K#<#1F;T;9D)Z3+/X*NWQQ5-B$^'-.8.N8_7<'2ML]-?4]!AU[.HY]PYV- M6$K:D_^@07*I--XZV'3);3.)ABZH>&%%$^]95[6HCNEWK):+WV\-: M'8@BMKEQZ'$HS-
V!)K;0U=JH,F*+HD&H&_^$PO\<OI!E<;B8 % MGT5M&FQ0H9$WCX(;@H2Z0#N.)@\)PN$/G\%11=F.';9JMM7-&+NO (DPW^I&7 MY.R(I'0*>_ 8CX2.*#6U%#)VL4:%K
M8VNN_%P4:XH2'.@[5)\PZUEENQ7TIP)(:&I;@$9T&=-EXNLYJ$!G7T%]DP8W M3W8BM"N;-KNLP_6[;Z9IDGY_V(2=.OL-.F=U,+#V?R0LK(#CP[%]_W7_TV,1 MSOJ'Z>&/R0=LWR1"J10K+
(W[DU$O<-6^.+WU)_^E=]#;/^)4 N-I L976KOV MA13L?P5=_ 502P,$% @ '8((6;E_5Y)=! T H !D !X;"]W;W)K M&ULI59M;]LV$/XK!Q4H&L#UB^RF:6(;2)H,R] 6
M1MRM'X9]H*6SQ94B59*RDG^_.^HE,N8D';%%E_NX?/<'8\WKXS][C)$#_>Y MTFX19=X7YZ.12S+,A1N: C6M;(W-A:>AW8U<85&DP2A7SWTVR@\VAWE0NIH.0]S M*
[N6*TG!=BAVOTQCOLG49XOH+((4MZ)4_LY4OV*CYQWC M)4:Y\ M5O72V\6,ZM MJ<#R;D+CCR U6!,YJ3DH:V]I59*=7WZAN\RSD&!%M:9L#@?><+EU5'28%S5 M&/$3&*?
PV6B?.;C1*::']B/BTY&*6U)7\:. OY5Z"-/Q .)Q'L&;]]G :\ MZ1-X-\JJ7<.5JU(^-RX[REG/CKF-X:;G8()5[MF9*[P&?XN)T6>%R%-,?TK=BCI5L+NLPWA&2V-9CC+T++Z<91\B;?@2]!\T(S MX@
4$A3M\E8F?%R]153"I@[>O'YU%L?CB[OUI0N?DXL3JA:;O^D&@S=)6B+ MTI<6AW %#R &0 'AL+W=O MZ MK8P-9[TRQOG)8!#RDBL5]MR<+6ZFSE#2JE;6]\
MFLX^^O&IJZ/1EC]Z"G55*;^\8.,69[W]WNK@DYZ540X&X].YFO%GCG_./WKL M!IV40E=L@W:6/$_/>N?[)Q<'0I\(_M*\"!MK$D\FSGV3S65QUAN*06PXCR)!
MX7/#;]@$00SKEN9O4ZE,&ZN5]+?)]_ART0%%N/,5UW$\JQWW*."IZHV\9=; M_,JM/X7]H9#!,HQD+/,TA[._"G_MC::&*;/G=>1\WA=!"A37@&>2OYHI&<_4#R$5TY&\M [VS!Q5W^ :SL3,U6
MIEYD]PK\K;9[-!KV*1MF!_?(&W6NCY*\T<.N]^DM3R(I6]"[ZUK'Y8;G]/?Y M)$2/]/EG%PB-CH/=_J2D3L)=!P?W2?^1 MX-TK>;?=CU6W??,]!!J]3Q9$U9J(&Z*P)E*>H>:.RKG7-RJR65+)IJ#<57-E
MA7:A8XF60]*7-*X+CNQ1+DETHX5NE*DYQ1AB<"9TG@WD473D8-*6MBN'WE$; MY>D\!*XF!IKZ=&GS/7K^[,EQE@U?7YU?IM7^ZQ=)2"T&RI1MEXBB7L9Q5JST)(RL QJZ25)87"UJYC$P%)B-
(G M:G@ <+07KC[I*:B7?9H;7$!X0Y&7RLZ 'B*,)J;MC*;>5>0F$O $'9#*N:.,3 MLW0!@3I71L0$76G!9R-J;IIL#]J" @'R'4[/=2/CP8ZDTOIC"\C9=T[I0K7LB] M&(DNK$/R/C+FE1LJ4%[@1>2#A
MOTO9N+ 5H#](:]'<@ =MP0;5O"\-5("\H,D2A-HCT92'HXT8YQX .W2^QV^Y M [V0LF7+O$?5SH_ &7T/P(;TQL_:;GBI[;P& J'.2U*AXY:,3"&CHDXEM$ZX
M%)R%",.E#BFMR4,3ZJ>MQ@*OE;B2:M@G/5TY]Q._EP>UB;-#[-$"7G"F$OW+PPN%& /R*6BG^Q6.:2'/E_5*FQ86]"U5S:C M,BH0'GKN'OI$@L4HA;'#M6@<4":MMZ'].3VIWIS!O)J$M(T0#4' V)U!
[C$/ MVO,4/U<'] HO3K;TO^4<;PPP'>VGDY& 3D_IJ' T:M1]VQA0UC_*#MO?#RD4 M6Q%[T)K1<9;^OKB(9OX@^5-ZU7\Y";?7>/+8&,.K=C/TK2-9T;*OQE)N]-N MH#]OYM@U>?/?
,:'F<34\!2LP[V7A[VF(:PVTZG MSL751A1T_^:,_P=02P,$% @ '8((62-#8>GY! (PP !D !X;"]W M;W)K&ULQ5=+;]LX$/XK [4H$D"Q+S%(H&%*M%/!X-QOV)<1I,3
M3[O6DQ/56,$E7FLP354QO3Q'H1:G41*M"_ XO+2.T)^ 52L.5!(VST^@L.3H?.G[^(/CPFRLP5DR5>K.;;X4I]' *80"<^L0&'T> M\ *%<$"DQGV+&:VO=(*;ZQ7Z)V[V3)E!B^4^,D+6YY&!Q$4.&.-L-
_4X@]L M[1DYO%PXW]A$7BS801Y8ZRJ6F'2H.(R?-ECZX<-@8/!*P)I*Y!ZO<-%7LM+ M9MGD1*L%:,=-:&[A3?72I!R7+B@W5M,I)SD[^<2XAA],- A7RSRCD3QNS4G? M$KACZ>'+^A\'"M\/
M]'\3FO\$!-]+A)D25)=6'=P=ILG]L(&>FC/TOX'W#'YAP(#$P63@A;?=85\V M#/-\[V$<)XN7'!)I:SOJ/7.&C(*DC0>#@9K MUM6W)3\[#4 I["2[<.2B5:'..1-0LYK\EB1Q-NZX=\:[GC0:=K!A>Z%TK33%
M@YGK9U$(6'V8=S\YHUU'2PS4E[&Y[-SVPVF<3!1GS1G/+R:O989QE62>?I*\N> MEB8=0MC>-%.K+.D[&L;C=+\32;-=3QMT:K3;[Y[_/>QG<9JF3]SMI?Q)0FYTAI%'T]!4*OT*:CU [->HNI*W-
'1)_8*KFATD&Y- MZA1>6T65RG->DV0!@L^PMZ46_Y=J.XCWA^DIKU8Z>\[S5K6-QGX/WQ1;2WY MV>DJ]<:C.$G&K]7\ZO %UT\D7U8\1"C76-!2VH8<2>.4ZQA+A\"$>&)2B8*<
M00\#/4>^=*A;Z8XE,DVY2&+!5E<4&++:\$>HPO2!,OK8\IX$-<@#!2] *O(^ MYHJ>IE\.X>DSU89'A,255#G*%>V>TX0"4+EN24V/4S/@VI=9R^K*BL*W/5*] M;1-!?V-PH_8]]^,I/;6JD3;,
<&OJ>@(^"X-?QQ[&YRNFYZ[T!,Y(=-#;'T64 M87XD#1NK:C\&3I6EH=(O2YKB43L&.I\!95<;=\'Z?\'D'U!+ P04 " = M@@A9GI\N:X$ #>"P &0 'AL+W=O3328AU2-$BZ]6'8 RT=640ETB6I.-
FOWR$E MWY#8:X&\B!1Y[OS.9;J6ZINN$ T\-K70,Z\R9G4^',J\PH;I@5RAH)M2JH89 M^E7+H5XI9{5C:NIA% 39L&%<>/.I.[M5\ZEL37B:5W!']Q7.N] M/5A/%E)^LS\?BYD76(.PQMQ8"8R6!
[S"NK:"R(SOO4QOJ](R[N\WTC\XW\F7 M!=-X)>NOO##5S!M[4&#)VMKRQSX.>PSCX A#U#-$SNY.D;/RFADVGRJY!F6I29K=.%<=-QG'A7V4>Z/H MEA.?F5^RFHD&9%N*8=[+N>SD1$?
D9/!)"E-I>"\+ [Y MAV33UK!H8]AE=%+@'ZT80!SX$ 51O'4T=O+BGW(4_KY8:*,(&_^\Y',G M,GE9I,V7<[UB..,%G,%X"/5,(T$9"()[E,19FE%/$! MT]KZ?
Z&M8P>F^[#Z8?:#\#QCH[.S:!!2]M8U%2)_PU5A75 @J4*R&AU<5<$!U M3%M'.=E0#GKKGX7Z=3U(!ME&X_^9ENU,NU74/I1Y'=*P+NABVD8@21IYT2@DB<^6DRLIN1'X49W"#5]DK2D_"&$/B
EDY#&/J3 M+'!+&,&5;%8M87=/DC5>R]*LF4*+NS2T^,Q2^%R6G#+LD+)LE>"F)=*0H)S1 M-\DF)%90$6J[/D7ND?ZELBD0^FD8TS>+LR/A@C3V1^,1I(D_FHS)"ZW/J=7E
M;=/6S,:O0'K.G#.S>3C62&7XO]W!FWCBCZ/PK=0$(6U.O0KE:4SAR.PF]1-2 M>[TOO<<+>9#7+74!Z\]" < *V[#*55TZ#F0\]T"G3&'P"36C75KJ4/2Q2H*+>= MM45C2P"5:-N]=PP.!
BM8&W!K9^$F,)>N9V6-2^<^]K0TCTE(XTL]0]:52B <];0>T>_YXY,9!T*%NM[L[YCP%TO^BP*U1TI6M(.W69)S! M_0_$(PHG$,5C2.()-FF*!8OO8I30V1V3<9!IV82NG629)?1%GJN67+KA
M;,%K;FQ=[6Y8?U/OW;QBFFX4$_9+ C%9WGM,DZ3F!8+M7#:A2NQ+_<@!,?+C M-.AQMQ1I9@%"K8!B2:X&4>] /)G8B =Q'R5YU*TS('2'MCA05L4IO-3-AWLS M5X-JZ29+&Y%6F&
[\VIYNA]>+;F;;D7>3[R>FEIP@66-)K,%@E'J@NFFR^S%R MY28X2B::!]VVH@$&PO=V]R:W-H965TB'T;D2)J&Y+ SO\0JK^^Y=TB*=OQ(
MBA9(Y"%YY\Q]GGO)B[VQ7]U.*2_NB[QTEX.=]}6[T[CS=&%U=5'*K;I7_4JTLKD8=2J8+53IM2F'5YG)P';^[F9(\"_Q- MJ[WKK059LC;F*UW\FET.QJ20RE7J"4'BSYUZK_*<@*#&OQK,07RO6_0
ML^VP92V=>F_R/W3F=Y>#Y4!D:B/KW'\V^[^HQIX9X:4F=_PK]D%V.AF(M';> M%,UF:%#H,OR5]XT?>AN6XVF0*R=)'==C#S026:4-D@W 2EY!FDN/IK2 M[YSX4&8J>[A_!*TZU9)6M9OD1<#?
ZG(H)N-().-D^@+>I#-UPGB3YTS=2:O> MWK"1*W 9GEQ;:TLMXK7?[]>.V^1)O]XROB /7T:FTKGG:MDJBX'

DSD!%+%5I;+0XB#@&BND2*9O"RJ- M1@K.RF#Q%OKCWT=YX!M_A7"QACQT4!(^.2AI@UG8%A3L.=7J5($JH,]:L54P M.FQ>SO[46IKFQI%VR,J,M>1=1[BGS,6"MFZT=;[;F$G/THBD>6@RF1!B*.$A_MZW6JX5PO-")0DK^0',;^D%)!@* MQC/*N$>I-VSH_E/%A-9:*TST 'TGTR&X[":(^EIQ7ENO,J'Y)KR;&"=XH2 MGA394-V%!QMK"E:LY14^*:)5X)($=,$[&^97(>X&KB>$B*$7K1"'L*7;A_:& M6/.I0VICOTFT$'OH!>)1(Z-;(WK$JWSQUY[HCDZD['9X'!F=\KKMDTFWV'; M?/$=MNU-:]EGB()&*5@AA%]*#0M.FX[[^?:+ZSHNBDWFKB6S8V!)*&IT/;Y M&#\DYX[;6<-:[TRIJ&OA@YB=*RC@+2@+22 M+0WR8$:>C(@/>7-*32&%6R"GF(Z)>FH\:6TA4^/%N6ND:J'3&349EK1]IS0 M7."2 FTX>(0U9N,R3=5"9_1#WH88KR9L)/XV9=3,E@_GJE#OXO850]!*UF6: MUUF@?G)&7N OU5N\-]S(T<$,3$3+S3L'9XD3$XQB_RPE^ MDGC.OPGE*,).@P+R.X-L;BH.[WP:B^5XCLXRG$2?1V71,_2A9"'2DQ1QW%LN9^)WI^$1,H_DRH<.C!2NQB)8S4FF& M$V:A';,/.+#TAQY-[XGA! M08O&9^2F232?Q'Q_'"]#-9#S[9%B BO*/8BSSS'71XZ)HWB6X'>RP,D(ZQG]MGIV]E;+\'0&5_;97PM]@UP_H:]6G+R[NY%PD"X!.%W04HML#%B%@K8$=R,VG MOGX3)-WI).'E;"%.X_'R3>BSF#[:,VCN:-??EU6?VG>2LW9 V!/#@=S= >G=!E9RXGJ+Z'(Q-#V&C"'.O4=Z<;(_?'<9T@L:#5,=S\H64[90 MH;T!P:;;J9:UVR'H\0$=9Q+5=7%HG4@)4/5B]]#%-)EP2U'WGN>H,.P6!@2] MTU R"'&=^U 9\O7*XOE]..YFG=Y4 P#W'>S0C8(_.O8-GWIA'_6^L,!O6_Z. M1VF+GWXV-+=[3Y578[8S]Y%*EO/B29X6['J3>EZ]&(Q>G*I3::CL?GHUSJ8G!SQ6L/]N;*5#[3A7JPPE5Y+NWC:Y69W?5@ M,F@6WNMMZFEA='-5RJU:*?^A?+"X&[56$IVKPFE3"*LVUX/;R:O7_)M>#,3FD,A5[LB#Q]UG=J2PC0W#CS]KFH-V2%/O7C?6? M.7;$LI9.W9GLHTY\>CU8#D2B-K+*_'NS^T75\9R1O=ADCG_%+LA.(!Q7SIN\ M5H8'N2["O_Q2YZ&GL!R?4)C6"E/V.VS$7KZ17MY<6;,3EJ1AC2XX5-:&<[@ MHJR\Q5,-/7]S)TOM9296WL2?KD8>)NG!**[57P?UZ0GU<_'6%#YUXKY(5+*O M/X(KK3_3QI_7TR<-_E85D9B-AV(ZGLZ?L#=KXYNQO=D)>_= 5MH_BG_?KIVW M@, ?QV(,)N;'5!;O'*EC-TU +AWRGY6@YOG/TS.QY=/.#AO'9P_9?W;!?@. M=7' 1=E8.R7,1KPK"?9. +S"ITHX_47DH5B*BB60:M6F6LAB?V4V%#LEM',5M1!=GP^79.$P-SI#E%*\5UM-.&'_M5UYZEA>X(0H0JY>SX!+E Y:RT1L":B\0[I$:M;05"%}-%#SE-2DOC_,LN.(1:))Q4 MLHWL/9&V2#Q4UE6R$4;J3EGC+2U;490"""5!L4>\M3(EG.*&B<8L6H*?+2O05 M%F"-3>@"F\).S2!OR$&]KMC%%DKB15W]^S>W394#1!XTX7B%K&;X?R[S\E+< MF5;^8777H:)?8#Q +8#QRJ)#XJQR'.B6@T0&:#W1+K;*-]#'JJN@2J5R(4\U M3!*%'6'!JJ*]K.NQP9-"0J)1$=3+1R4MM: V2:V4VM%-R3CH=D]{;0H+BN R4=QSF21;47[ZM, MB?GDK"X.=WR+&G$;D[Z87,QF7"T(A3[A+ OWE0[$A_A$IJH,!Z(!;AL\)1#MI5BZ4.F.:Y94Y&B;JUZJ(O'/NAP[3:GB!'<>:64S/ MW)&=6\>9^,@8-U'?TC#8J7%RD.$&P(41L;9QE3M/QAWE<+^2P* S64*LVV.S M.J*-K]&&54*"! [0+S2BH&5U/QO9YTK7G3DZ:SPCH/_,:9)#QU%(D&J4^K@#QB M+L9;B0Q3?26W)1!1%VOVCZ9D6VN<8WBX[HSNQ74J*&S4)!@,ILH&!K&R'J\) M6,0KA>,3286D-KX$2ED^[4&/#DZF%6\K(; U]|/,355PQ_9BI;I;I?,U].MS M?D->_.A:#UEFH^B8^-T\068(Q+;#$O?4*P\6NY++**+=@&H*9CT:Y.A)4*QNI*&>B5@U+BC]ZZ888R<'8Z-BU-C(V:; M6Z N$]-YJ 0#MB6 I,/[NWJ&Z(GMCQ$X^C%HF8QFHGJ@>-<=/_/E^/)P2-T[M2NZ0<&,/1?8'CEKF9^W_VF+ 1JF:H2/B(RIT$0\2[102=(X/(N^9_VKF.#8\ M+,[^Z^'A>**&S?K_^4AQ%$C-('V"^_OO)LT W) %N[-WQF/5M9&?G&P" +YZ M,3'!N5?1AB_+_6>I,KI%%.EHXG=_T\MC7@5'O4TVN[)8_ M2!&'X7P*7VW:U?:;UVWXU-.)AP]F;Z7=.G!>IC90!8^=#80-'Z'"C3&PO=V]R:W-H965T8RH^C5DF6?[9G$N;372>8\R;693J"F/#]67 8WDY'H=LIPH91JY4%F\VSA=^-.2ZX+98-V5GBUN1Z\F5Z^/2-Y%OBK5OO0 MNQ84R=JYKW3S2WX[F!#RJ@LD@:)OWMUJXPA17#C6Z-ST)FDA?WK5OM[CAVQ MK&50M\Y\T7G<70]6 Y&KC:Q,_.3V?U)-/ O2ESD3^%?LD^QB-A!9%:(KFL7P MH- V_@M7DF06S9L&_4Z&V,MW,LJ;*^_VPI,TM-$%A\JKX9RVE)3/ MT>.MQKIX<^N*0D>@'(.0-A>WSD9MM\IF6H6K<80)$AQGC;JW2=WL&75+\1$* M=D'\;'.5'Z\?P[7.OUGKW]O9BPK_7-F1F$^&8C:9G;V@;][%.V=]_\E7O%. MA\RX4'DE_OYF':)'T?SC*122D;.GC5 C78929NIZ@$X)RM^KP M".&L"^'L)>W_?HVVUZ86T"#<9J.SI-C(M8.H\[5@T$:-T72\)K]11O0M4J^)J_:P?GGE#=4P_\[5K\>F M.7+8FT[X2WXOI<#*?_]J/L'_;#A9+O _'RZ7$Y8Y3D..P,0]@..:@>OI&XM?' M<%SV+'](07]A&E/Y:WF/-UL%Q(C#[XAQ05#42OIPRLQ'YVER].E.;]LB=@ M0HGE:"G^\ (PMS+L1"EU?@+T4T!E)+WAO&R*TZS1TC-%^>,U/GY0KP)5"=' M:1@*5WF0::R\CC4J1IHZ:):3UE;2B,JV,<#3GDE(4!'^VQ*2+U?0WQ@WX$!+ MWJE,%6LD:#X=GN:%,?CQD(RE*!C%5RG0Y05)+,39<+552+(:3*<-V#H'% MG.MM)+7&^TAD ZC"SNTM M]L"X:QJ]LK+*->/O4# VI*O@C,ZYE=?24H$[X&G&-]6WA-)E,ZW+IR2Q>O' M+1BX;B[.+\0'9[>ON>C_HV73R7!Z,6TP?2G6#]+4E7T6_J(2E28B*559FIKY MC'829DWO)1 Z23R_-=Y';F1K6*WZRW^EL!]LU2.Q;I7U7UN12MIGQ$+QWKV"ARB@@UZH)<)4%0JU%M[3R=@M#W*I$OY;FFY*!/@$Y4'6O@5K4> M\4[46%#\EH;8Y$)B#?(B,KL MGN=0\^W2F*+CI+F68$FD-"VE9Y9A"!(VUYV M@'8DWE>&G'A-^;)B0&9#*M4=P M[V66,D'B\)VIHG.0R',U[7Y_^&XUF\Y^ J%M8>B.RE11V-R25$=K!2SNG;E/ M@XAA.9DE%)I&=)0(G&^>:,5A#TEMJ0"8]>!QV;-%C*D\Q]8NQ'NRDC72%(FA MO-$>A:6@&:ZU#;47!S84"C7E:J72R/-H),J,U 7* F'MM3&0R=S6ZG\!&H'Y MEWUHAL"ZC>L9^MUHPI0J(J BF[3O=\H*!:DQX-Z:RU=V])>FQ;4B&9L1/^?LM&UE)A=BV2O)%6@(>&0W.0E7=M51^B"!/DSO15?TX! *9"SNGJ2]B=L1A=PTD M.";=9(\MHD?@LSP80]M!F6[\9BV21@94)$)F0U08.\P\QQ&-Q!^97HZ\("8C M#PAO3],/8M6&#-?\#F8-LH#%OP#LPFH,R4WRQJA&XL ;1UGKL&TI>".U!Q>9 M2J6!ICYJV3T-)CB)8X,M74JPQCVW!XF+;27!<%$IQICC:RFSU]^T4<-VAL)P M'O6=+E53ISB<=L-]DP+"@W3HX_@2N=%)/U#LX TP]^'9D/P]; 'L "'0:JE3 MM31^'-PX\0)+81V32QL+E+;,K#WZ4%(GM>U!+(RS-E/F<6'JQ^C'E!U5!B#;:- MMBYEEOE*<3Z^6IJ'L=,@*NF69J^.VH8\OVEVF>:2\4S/QL3IK !HF_+NJL.NYJ:BB4W_('%6HV@).^.G1/NV\V;]*G MBH-X^N#S4?HM<@$6W6#I9'2^&&"3X(\HZ2:ZDC];V\%DT&Q\E:NUHXWQW4W)5^)9N+^7 M3P:K<:LEE8505FK%C,AN! _>3JX<9G?<' B'%QG9^,XIDJ?4++3ZGMX.('!*Y M2!QIX/CW*AY%GI,BN/&]UCEH39@]W>C _9./';$LN16/.O\F4[>^'5P.6'HR M7N7NJ]\5=3QS$E?HG/K_[>.!M?#%A26:>+6A@>%%*%__RMSD-'X#(Z(A#7M K'W.QCR7G[DCM_=&+UAADY#&_WPH7II."<5%>79&3R5D'-W\'72W8P=--%Z MG-12#T$J/B*U8+]JY=:6_46E(NW+C^%'ZT;Y71@CT MDV-_4^R36)H*7<@FTY!T=NK6@OW\TV4<1]>/<$;J%0.DA-^:7)\-V48P2 LC M4B:5TXRS#!W%SK>"&X;]@N5DAZN469%41KHMXZW1KOZ^/XT%0-^MNU[+3+#G M1 J5"*R$2LFG3Q7T?QZR+T_LM%;7BNQ\}3^R3.82$3"==;0^\E(ZGK,G;IP2 MQD+3E\TJ.3:=?5#;I#1G) "[GCPNJE*H*0B\0B(A-G6_W8^:D9>)[A2HB#N\] MY'#RE)_Y):H-6>.WY!D5O1!!75DM'ZDQY"EIR.7W2J:^A2&E$%AI=%I!?5V@84]A0\ARN%2K*125*+V"6HE= YN1W(9U/S1VSE-JE78,@,$]01M!*[;1=&4.'D]#!_6-$-1S&F4(RJ@$MG'3;$0(AV*@:C6V*I+653]K!GO!,;M#%AO+',<3@LDAQ!34T=S(937O\E@3. ME+_CO#_=&DATS4HGT6C1RH0LMRH][OH2#@%"$]!$M' _0<8]W[GCQ MAK'4"D_;!TK?;!.)B' CR3=6A*%%>;LXX*H$6'W:1T;\W8#9DQ0A\4\6[=2 MC4)+MR <5EJ=)]RNFZ!XER)Z21X>RB(H@F\Y4:Y4YR_2]VJ(-ICC26)$HY*Z M-RG:^Q10(Z/?&EV^!2CN3T=X$')WF#?43-ME99(U\M.?*1#8 M+)X-H_B2V35'4IHBU8U..\#DXMIZ_H!QD'CRPCAU$! O3"*WSMN%HJ)-X=#GU MUZ%7%O)>^V QC&S]/5Z+^4*!F(!/7,&^>+*^$B#+9%&(E(:E?-N(">"BB@72U M"JPRB6C*<.C4RVEI':^14KJJW_O0NL1'G"B>3KLT6 JB,8QR@9L 1X>DFD7 MDK7Z-J+ ,A]V@X:?4>G(WCSY?PYP;B G!8Z%3G\L'WQ]C*EP14%MXZ':PGS M =$[KEYG*H)!W]66*?V$==P]@)*W*$5KRO2<<%J/FVEE&F_#M8*AQ-231^=F M:HRBV:F);=LO?\@IAUBVXW7 VBM6J=W3?C9.)\-X,3D[=FXO4:>+:'[&?M-4J;R?BQ,6M7PZGBS"R996CU\G=NT'M/E*-2^4@LU%WT=SM,VA_2-<_\?+DWZ/]^Q:H-\Q' MDSI_) YE81)?TW+>72RZBPNBIW@QH]^7;#(??IA.>+B83^O(#K@-0Y?3 MV?^2Z.X,<+1HR/IB/O_CK)/N_W^%#KV.CSO?1@IA5OX+$!$L0!(^D[2[[4>F M^_!M97<\?*'ZE9L5S>>YR" :C2[F V;"5Y^P<+KT7UJ6VF'Z]C_7@@,7= #/ M,ZU=LR #[:>WN_\"4$L#!!0 (!V""%E3ZC 9^04!&PO M=V]R:W-H965TPLC"VDQZM=#EUI2:9]JF\KG2M.U%:XJ"FD?SBDWZY>N-'I.9B;]%*?G?0.>R*EA:QR M?V/6KRG&L\]XBS^I">2RGE31&5X4"A=_Y7WD8>.PN'H$85)5)@$MOVM#P7IL35K85D::/P00@W:<$YI3LJMMJA5T/.GM[0$Q;XO7I%96EEF M*I&YD#H5[WQ&5MS0BG1%XDK7!0 FCX<>AEE]F$0CY[61R2-&#L1;HWWFQ*5. M*=W6'\+AUNM)X_7YY$G -Y4>B.FH+R:CR=X3>-.6A6G FS[- J(MC?5*+\5? M9W/G+6KF[UWAUFA[N]&XCXY<*1,ZZ:%'1'-D5]4Y_^&Y\,/KU"5_W6E_WGD+_ MOS+VI)'=(?P'RZ)AMKOVD01 5\I4+G] ,6MT?RI,A?ZJ'!QQ3D@G -ILWET- MX_KBFFQ T@FAG#X_%.2"'W^8%>7B7!EV1994>96X@;BH+*<3B_BO;!ID%[#E M, &IDM:3=<(UN]F?;$FN).22#*IEP#V)FBB$JK$5Y98DOW$$)1:?:[#45HD M1NLX9M8*R*P$VJ(:.Q 5VX!\)CV;DUJ;"K&D#/.F A^U)THG>94VKJ?*P00* MLZI- DWI%0P$;MD!LAX3&/,(+)@R+)>6LU2 L](J3%P%<(@$-[9I:MWJSBR]$6JRBL#>LQ'>R=!:VET8&9)DMKLC%O\#!#-VTQK5Q38OVP"0!, M;!2-Y1QQOP?RX32,@J+@=P297;[KAXH_Q 7"X6%$Y*\2[Q9HZV'O=C37(ESDQ12OWPW'4+0P;^ZS9F MYUI:8_^1L$G<*>ZL(G#5(&,]U'@JQ2F&PK#09PR)L-OH3;IW2K= <^<.>4* M[5&WWA;GV/+(/RRII6YKH6..W:#[N+PT'!<:Z@YWIG"K4%Y!B'O+IH#!;H(+ MDH?[HC#@AA8+E2CNR0#4,OQ8P0_$!QV,A2OQLWF7X(;CD,J&[4OW/:4Z-W MY3OL+,0%)51PKJ56W7_R Y?80+GG:[/>$K3_#ZA=ORO#I,S<> M%(9'OI*090'L+XSQS0L;:+^%3_\!4$L#!!0 (!V""%GX!>:$>P(+H' M 9 >&PO=V]R:W-H965TSG9!"%5#5\878YWN>\W,^[N(- M%P^R %#HL2J9G#B%4O488YD54!%YP6M@^F3)1464WHH5EK4 DEM056+?=4>X M(I0Y26QM"Y'$O%$E9; 02#951<33%$J^F3B>LS7.:"T$)F3(,M1' 6,(.R-$3Z&G\[3]=6!]@XJR]DL>NSSL +Q# +\#^"\!X0% MT &"UT8(.T#XV@A1![#2<:0=]BXEBB2QX!LDC+=F,PN;?8O6^:+,U,FM$QJ4 M:IQ*%N0)K25:@+ UQS) *959R64C)VCN]L4?3C[B,X09>A7P1M)6"YCK'1L MPX"S+LZTC>,?B!.@:\Y4(=&^!^5OC4/TKXHV$7*' _M(=_UPX'[S%X/#X;D_% T^9NC[R4CZ*L@L'S!6ZI@Z+%;NG"8SO2VL:Q)!A-' M-R\)8@U.\OZ=-W*_#&7ZE&3I*Y.P?Y/P&'OR4P\) 0"#_[46.;)(M,PG6R;GO7T91C->[B1UP\[S(5,RN6SK@%H3^R-UWFP^Z>>&S6RL3[S2C"L3* M3@&),MXPU59D;^'T'S97MKR_L4V\\\P;LJ1Y,[1QYIF^GVC41*\HD*F&I0[D7 ME[I7BG92M!O%:]L*[[G2C=4N"SU<01@'?;[D7&TW)D _KI-_4$L#!!0 (M !V""%D0PNQ 1 ((H& 9 >&PO=V]R:W-H965T(%%@89-H2L+CW\C\;MC>OV6-O%T?*1_=;6;6G98P9U@ORC1 M9>)]\!"!'#=,;\7A&W3U3"TO$TRY*SJTL=%'#V6-TJ+JDHU!17E[QR_=.9PD M&,[YA+!+")UWNY&S_(PU3F,I#DC::$.S U>JRS9RE-N7\JBE>4I-GD[7YG@)M2/0D,-&\0$LI,2 _'+M6L: -#C;.SSK:J[6%%V@1>A!OU MPJ/>*AP$WC=\A*+@!H5!.!G@17VYD>-%%WCGRKQ!NU>TYH3N%6DP.U=U"YV< MA]KO9]%JG$'BOF]#@=R#E[Y_-YX%GP<3:[WR9(B>;AL&:!SLIK?C4VVT)*+6 M_Q]RJSL,S#%3," V[<6F@YSQ0=M)>(3<,?4MNULO-KCJU)Y#F*\(7W(:9,[G- M>[?YU0CGG_2"'F3ANJ!"F6BX;EM%)HWVF7;7_Z&MUWZ &ULS5O[CQNW$?Y7B"N0VH#NZ6<Y=4 M2.[)E[^^W\R0^]#I9)_1(@4"GZ3E#N?QS9/,\XT/^/*F*0^M8V++PY6*:V? M'1_':F5:'8_\VC@\6?C0ZH2O87DILG9[0"[SB[]9LXNBS(E'FWG^D+V_J%PNT>G'P]$#59]&[M)KWSFS^;+- CHE?Y)O*_:I/7GARHJHO)M_EE<-!)W_UIZR(+WGA++]PQGS+ M1LSE]SKIE\^#WZA JT&-/K"H_#:8LXZLG9IE\XN;*5=4N=5Y3N7K%NJM[ZQE351W2N?[C_3F"*2!]7F8%7MPL#9+0P\5C]YEU91O7:UJ:?O'T.87J*S(M&KL[T$_]*Y(_7@9*;.3LX>[J'W MH-?0 Z;WX!9ZNP3^U_D\@!$]_7N7P$+OX6YZY&;/XEI7YL7!FG0>KLS!RV_^ M>[X-UE5VW1A^?.%=A#0U/]\EQ/]@&_7+RL -*]^N MM;LFA79.=[5-IE:5A_E=E$_Y%7Q96*=!3CM"<"\ MNO?-'YZ>G9U\]Z?S\[?\\?2[^RPJO:77:V!"SQNC0D?4Z$$PRZYAD9D0K;LTM51=LLGG%ZT_52KNE@8+:UD:.<66?R]<7_38(N^ O@9%VI OK)!S36_NJ=]# MK/,)#ZJF]\%5T_"NXX6T+=9@93*_=I-T-KJ6)!3O0E9I3#([57Y$IHNF9^7K M[!97OFNPV%U2%_$%ZQSL?.B?QF8W&*AU(?X;@(!+>"R9Y>BM8U5XV,'AYSE!P1TUL_L M:VVNXBCTC]VG1,(NBJ[%$P5I&?)?!Y)BE;0*QK"%H_VD6LD18B5$>--'>%Y" MNIXI1 +>P,8$4@50'K@EW70QL_HS-*+.%-!R-SOD.'$AX8M<]/3)=U'LO =F MQ!]QUJTS:]@24L"% UIB1(IE36/%$->8D4LF/Z<3W: FVMX#]OQ:3O>@KZM90X81\H>/='7Q6].[7UF5TM=JA8J0E!.P%57CL M KK^@(I)7L4R#3TB^C58@^;V!MTZ@I*X)+8M[<" 6(MV4PMM U('*3L@:^U MCU8B*5._B4*\C%J0'Z]J#CD!%$"7V(DGUM>Q[&5J47MY7(@09,C%"W\6_%A7 MPZA4QA8?*2MS¥I2+3J6;[H7 :)P@1T1!CCF'>TI-Q[UY<:CO77^\BLO"[0 MVE5)W(T"*V,KFI =O@Z6DF,H=IT+1&!HU\.AQ2_R.ZM_F@&_YBI#UV]'%*, MCNA9UF)-CL2M1E&Q6!#LQ CD]51?M.1K@CU$FP1*C=5SVW#BGRG:-%T39J^,MZW(I8#ZM29I2.30LS!#,B1AE-:"7D"ET>>V()'ZA\E5!^&6%D7VM3@22VU6 MMEI1Y=,*G+((F1OR$H_ 0G+.J+$Q@?PC/R4WQ(?D TMRI9NN-X^(Q0NR]\W4MTOMZ8\DG@XWD>>@(:>\V$S=B3E=X2QP*RQ&F0F?]J;K0 %0?E=[N4.27'$- M6\VE_88R,$66Z&%[4AT;N6< Z4]99T=H75+'T4!\IN)JI+;00BAYV4\4QMFG M@\YDD>&MR/@H86A%(+3E/'('5.YSO,>]XSW>ZS:7*T#N$*"RTZLV@]UWN]S5T M"$Y5 [W9Q35'5B#FHTEK#R.UD,,\V\E!+O! P[9;BN" 8 3P M)B/14/;/^$_*:/PVK4.)6^:.;(8H>CD^@Z(@ E#[,,)_UUIVY#)#['V,,(2M<*$%J;>DSXEP\/./ZLJ$V%&'04ZK_/R#F(G<%_''4#R(O+JQL&Y-82.'XAPW M-H8=+!KI8.)-O$'#E,O8ZVS8"046O]*!DCK3N%WQE.DYI)A9UC=7<%*_ DV- M_0W*6J*GR$'74VR=(2US.$-XR<)IKJ:](TSA <>NE6^@I9A+Q3[\FT_4C_8I M>53=]1&-'U)FJ#CC(9+9U.\M<5QSGN?ZG\O:W#V^H=0/"9E;3WU1R3#,=.XL M"]8_FU5'N712UFSAGVJ/+6V1HS/#0R'8,+YO,08!6D5(3&ZC "_DO-Z!6@/O MK\5$&TE5(3*Q;+YQ,T,\"YF MI]\&T)8Z,/L'DG"4\)HCH*&:)"0V2^6A 2[$H<>:/%5BG>3@7O4L;ZE# .MEP9AB@4N2G# 3!L$!\^FN9:Q* R MF+/,6&>;89:0.]M,>%O56+,@BE*I51Z"7Q=V=REG7W9^TF?G)WNSZIL>";33 MC]XM#W_D]O^<2Y%=:?[J'#"\M.>Y:=[=Q!"ZL\&6D7SJB[AK;OXO#L5KNB+ MV?I\%/M2%LTC+2>?XA"Q(==AG'GR./*>$4S)1Q$-GJE[]OZH$>1)2T7#M)1Q MJ]6Z(1\H<+MG\0(;/>\+0GV*DT%;V*E.=42'Q(BX6FE*^RY8&*96A&,]K=4 M/;/?Z'+>@)?],NB6^,@Q#145RN!KW&=4ZI5+$SQ. MC?>N1&3*.Q1B:8S!;FI7GIK,Q-F/^0>6;RY%71WTQAVI-PLN M.+.#TAR#RNQB]MQ[TZ.;5<]L6Q]]BPT(<#]IN(DN5=ZMD[QM1&:6(3!"5>&, MR@O"IC1]W&,/89EC,,646 H7?Z(N;2204\#9P;9VH#;W,)0LNDC$)\,ZWC MMMC;%["^[;W_V_U^.SKD"-[A(L.Z1TQ/"@1;LNO:4T[B]&S^!S3N4 M2+W G!;WR4LI[IJ@ES7SQJF?--J G@6C?NBS[DC#EPD24'^L7GFJN,L9P@_G MEZ_Z0X2\^_GE>_6S/V*2AR=G,X2N>JBPD&$"7PSE((A P#V'" MPY5&D=:1JV4^MDX']"2KZ#.O-$DROU_;JF_WL,V(8_P9.@KRI'4W;U"/RJ$5MI2UN0+7,>\LL;VZ6UCF.!MP@]:/5TT<%1=*WRGB&C$S2KJEZ3CP"I+#G>#]7 M\H(*QWL0,AV6Z.]&66/MHL9.?1*.XZ1/5_YAX6--!7F(P_&=>X@8ODV)LXU M/@_5)2.]:V*5E35;Q>+3;T,JK_L!.?FS NN P?HE2C3?0;032@_#SY=H;E M5-BK7Z@=4_=^(0.K)P!{C^;XAJ(&5:[X<-50[($VT+.MZ7"O,&%&;4RF*6DLVOU 9$NHGLA2O\'VY=@?0SV?]+@/1DIBX-#W[S20ZQE)%TM]G07FF095U3ES2]%EDXY5!T*Z3R!8)(QDQQ?SPM&8URD7J=B>_RX4Q]07P*)DAW3B)*>;9?1SZNV+X;U7R7P+AQ[,1 "=P?3;- MM.<34+XS<0W^3,GK^OX*]^TC>N_Y#%.N!P&OS:A\D-:'',7T/,J59E I_9C MG-,6Z_'=D@GP>1RS(Z5GC(W2.DW_1JSH!EZ01P$C>L,[10%<;6CN0W9P-WDY MTBBP2Z+&N1IEH%"YFM @/QS4T MPJI=%':X4:9R5^JY^J8Q6"FZ#+)?3UU?.N65G=O?-Z_LZ;E.3X:[=R?[#U]R M&'XS7-/9>8'NSE1(+VN:*J(VYG$ C4EJ%GDX@$,"V_CA>\XJ]&#>FL"4J-Y M[7Z[;0-\D_)HHUY9GBKKM>D2?.Y(?3]NJFR0@X8%]D+@_K73 8&=#2"ABP?\MM=F>#\04NBKE^H;X]&@)N0W$4>.<9W9NBE$,UUY+9>XP91!LS;HE(@8*&' 0 M^S3_GX0YT-J3B?$EC/E53S]9L!+IR M>C)<%H VZ.5WIM[03.6*9ZX7B%HPB+,;C;^NBTXES=(OW%1!&W67Z[TW._5% M)^TCK3+0B]:S.8@[N!(E]9,L1)WXFPW<+@"SB>:MK% ;,8/QW<8^L-QK@>< M7,@COC.1B]=_FXDOKJSI=8&M:Q3+?"^.#N?#+!]J4\$[@B>?:36-K[1<;(N@ M5%'*/(\\[R(^LO/'D9"T7_&/N\%]Q&%$.XN \7SSCX2,=>C>[JCF$M#[* MEZQ^6@JGT43QCW$,#)Y_93<>$JF$"3W4*"E AWW7N M+_%,J.Z\Y*Q>&Y0=5V9:LHWZ!R/$E5XDH +%D;;R56(_//2RZT,FF+*5+,_ MH?6A-GS\5_%9+R3F\P($>KK\Y.3<:\BCMP'^2+UW3(@Z(V2=%*]LR[S+:><+GOH4@ O,/SCY+;G MZ=][_VU_;/ MY;+ZL%SN_/^DPY(.[QJSP*LG1T\>':@@U^CE"^H=OKH^]RGYEC]2O#.!%N#Y MPOM4OM & ?_\/(_4$L#!!0 (!V""%GG[&D/_ 4 "X/ 9 >&PO M=V]R:W-H965T5Z50E]TEL:LQ]VNSI=L1?697#.!F;E4*VKPJ19=O5:,%F[1JNS&89AV M5Y2+SN3<_;M5DW-9F9(+=]N(KE8KJEXN62F?+CI19_OCCB^6QO[H3L[7=,'N MF?FPOE7X5Z;"KYB0G,IB&+SB\XT&E^F5MX)_,'9DVZ-B?4DD_+1?OQ<7'1" M"XB5+#=6 \5KPV:L+*TBP/BGUMEI3-J%[?%6^WOG.WS)J&8S67[DA5E>=(8= M4K YK4IS)Y]^8K4_B=67RU*[)WGDG:(7FEC5S5BX%@Q85_T^>:A]:"8?B% M!7&](':XO2&\HH:.CE7\HDH*PUM=N!<=:L!C@L;E'NC,,NQSDSNV(:)BI${ MELN%X(ZIDP>:E4R?GG<-+%BY;EYKN_3:XB]H2\F-%&:IR;4H6+&_O@MD#;QX M"^\R/JKPETJYT?[RONSI5?_^P?EM"8[VF:;OHH$8T4QO6F;Q]$Z7ANR/H^PWZ_C'MDRNN MZ6*AV(*Z,,DYJ?TY!/2HJL- 'Y9@1I8H5*X6Q-@L(&LE-[Q@FG#A6X"KI0SU M38H='%:@0EO4YC6UVG.;U]QJDKV0!6%RH>AZR0&4+:!/GQ%K>O'J/S%+:@A5 MC%AMC[#BQI"=0AO/J28G'Y"UF+@W0*$#.J."%C0@5!3D5Z 56]'3@%S?7$_) MR76ET-,"4VV\^'1>R[F/V^F,G$PKFPHEA\+?T&'^9+3$9$#NX?^2 M8269:EY;FRVYH*=GY&J/EC9M7!,@]@P#.;"9I:PT%NO3,2A0C.T5$$'Z,Y?^ M]_SY"S.V,.RCUQK=*FX[;(M06J)IJ$=F]'A'W0\D"L)^BG^#>#C" M.PV2./!T1<$H'6"BUQ^1?I#T1B2*@GYOZ GJ8S8EHR#$\B@.8B"(4LBFY$$: M&*V3PMH:!*.!U1U'00\8,4B",(FM]7[0"Q-RI$"1D"2HP5RN*(/5<=1/?^G M.C KD.:938PA$5 M)+@L8%F-#};'=*4K&S0N\K(J_+J#S*/Y6'T9NI$0U@5$=V=@3&Z99-4J8$0IJDI*3I-^SXZ@??H-?KLL+ MM$1WK)/L[;/_XX[2;,H,78ZA?PS3T)7_*"&QM1Y]WW1-NTB/=HNVF[^WKB) M? >)YC4,CO'S@JSKJ]\YS3_ZA?G+4T+?WDSHC=2OJ6_+8%A1"G1W*^CGEE*F4G MRJ]E1+.K5F(749L65!F.G'K9FZB+@*$]U>FOV%!"$JCK1/+[]VO,A80K0IJM M7Y^?"Z3BJ"P$OJA4C0TF)K\A5%E(:$YV=98%RPF-U1Q1Q54:1Q,5'TB,4;Q MK/(LPG4E7VAILS*P6EJ9B)REY1X%[)FIG&OKJ;.PUUZ]9TUWKZGV9C)[I2$4 M2EO,V2L"B!+D4U4L5LRWF8TL-SY0-4>6NSI>4A7V8.2/3M6"[YB]P0&)%=UVRL0^ M4OL8N-T)5.#B-X?YNEYOE2RJ5H';[6-8;P>[Y]LWPSB*W^UVBT.EVVW=8<# MPMW4-+Q X/UUIOG;7 :G_@ZT$_^=N9_S!R[6Y$ MF32@VPUQF(/S5@#S&PO=V]R:W-H965T40I9HW;2:+!8+J+K/)FYOV#P]\2.[>W!E _)QIA?WG@H%E'B M":"'G#R"X-<3W]2'HAI_!XPHS&E#]Q?[]#_ "+5S+1OA\:-HG[*&:A%=1%!@ M*5I%/TSW!8=Z/GJW"@7GM#UON@IE!+77_%L_#.>P%7"1O!&1# M0!9X]XD"RSM!8CFWI@/KO1G-+T*I(9K)2>TO94V6=R7'T?([W_M7XQPT:&%= M"8MP\B@V"MWI/"9.X-WB? "[Z<&R-\#.X9O15#FXUP46A_QOO993MV-]E1 MP#],?0,39)9DLV.X$W':J6F^/?U^KMX6:O MP_F!N72-R'$1\40XM$\8+=^_2\^3JR-D9R/9V3'T9>#GX+LA>-"Y:OE(06JX M-773D@@]4JXDZHEWADO%#YD,#U^3OD4)),(C<\B@5; M@0:Q;WY(I1BH:*:B=CT54&"#N6@=^BAI 40&XJX_]U*>O%' MC#]06"G!:J$+N%^O5!!FDXO/4_@\F:;9H?%36,OT'9RDIS#C1._?761I=G6P M?C0D%##2&/+A0Z@7&8AWFK94DF58Z9<1/NR3[AL?F&R665P=D N-NE)A7T]\& MWXT>=*Z35 6W!ZW-D2#6<5\(GB-6,1!%(;T7M_JU[[OPF[]04J+#DT M.?O$:FE[/>T-,DW0L(TA5L2PK/@'7A-8[\'YIF/Q@^ 3C3VWY'U!+ P04 M" =@@A9*,JMPJ," =!@ &0 'AL+W=OZ M9)9$O0C-4B/+O5$IPCB*!F')N S2D3^[TNE(559PB5<:3%663#]/4:CU..@& MFX-KOBBL.PC3T9(M\ %[^65)BELO>2\1&FXDJ!Q/@XFW>&TY_2]PAW'M=G: M@XMDIM2#$R[R<1 Y0B@PL\X#HV6%IRB$V& ?' >0X9Y6PUVK]'9MX^LY?IH3Q7UC7NGU"S"IC5=D8DUQR6:_L MJ7F'+8/CZ V#N#&(/>\:R+,\8Y:E(ZW6H)TV>7,;'ZJW)G)B%7:"R]LC7)?Q4\LLETP]HV4P@W&!:6XY&OATZT[,YU%H"=89AUD#,:TA MXC<@!G"II"T,G,L<\]?V(=%M.<<;SM-XK\,?E3R$).I ',6]/?Z2]@T2[R]Y M_PTZ<(8S"TSF"'IM!+U]WM-3IO4SEPNX8Z)"4'.?R/(ED?\%LRN"O1B[([@M M$.9*4&L[]!K+W[IZLG29;9BM-LQ4I4&^9H0"#F#0&9PD[6KP\9ZZ'>+.(.XWWU_$25.AORKZ=]DD MQ[`_W2K+Q/OJ!W#2.8JB=MV5X"K94O4"S^8#&2JDK;NWO:TG7V3NN5?U.O! M2?VZX-* P#F91H=`_0!T/8QJP:JE'P S96F<^&U!\QNU4Z#[N5)V(SB]A\A M_0=02P,$% @ '8((6J5J6!-! 6PH !D !X;"]W;W)K&ULQ59M3^.X$/XKH^QJ1:5=(IHX&>>"3WS4F.* M2:^GXQ1SIKNR0$&:M50Y,S15FYXN%++$.>59+^SW1[V<<>'-ITYVI^9369J, M"[Q3H,L\9^KU$C.YG7F!5PON^28U5M";3PNVP26:Q^).T:S7H"0\1Z&Y%*!P M/?,N@LGEP-H[@Q\=N*R8QH7_N2)26?>J0<)KEF9F7NY_1UW?(86+Y:9=E_8 M5K;CL0=QJ8W,=\X40UD(ORBADVGRJY!66M M"1=>$&-8A7H9' ?\H11>BO@]A/QP< MP8L:RI'#B_Z;\A77<28M:PU_7:RT450E?Q_B7$$.#D/:SIGH&L4X\Z@U-*H7 M].9?/@6C_OF1@ =-P(-CZ/-EU3 @UW#-!1,Q9QG<"(JVK#9KMW,). -[[&S1 MPSW&I5)<;."2::X/<3NZ^F%N#RG"6F;4TA;9N%H!G1(O0YJ%S LF7K]\.@V# M\;F&F.G4=U_ YY* L

M7MSS567LQ6@^6[,5+M#\L;Y3=!H-* 5O4&@N!2@L+[S+\/PJL_2.X$^.&[VW M!VO)4LIO]O"IN/ "JQ#6F!N+P&AYQ&NL:PM$:GSO,;U!I&7U>+FLM?O"IJ-- @_R5AO9],RD0<-% MM[*GW@]
[#)/7&**>(7)Z=X*SD2$AEG24]X!'7'6#T"F &GZ4PE88/ MHL#B)?^(E!LTC+8:7D5' 7]KQ1G$@0]1$"5'\.+!XMCAQ?_/XK\NE]HH2I*_M#]G<02:'(6WAG.LUR_'"H\K0]!
[1F__\4Y@%OQQ1.!D43HZASQ=4B$5;(\@2 M/HE'%$:J9[B6S5H*.NA#^AY%/*SO%IJCAEQ2U6F#A95I*H12UE2^7*$Q@E NZ MD:ŪFHM#OSH'"@T-XR)LY-DM4$(?N)H9[MJ%\-:@X(R^?
0!A,^N]7*M?W7+Q? M*YFCUI#!&#YRP2F9"UA)66B(_#"HGR*W9)(4CODX' M7Z=OJO6=8M-5P#A>\O7U(R,#,[^C.>3RH\"'7?Y" NXD"&K&/S $MVPI M%7-
9,P@AI\69GR9CNQG[49C!+5)WJV1= &\H)HZ32$H3_- K>$D4N[E]*Y MAV25U[(T&Z;01B(-;<2R%+Z4):=">TE9MDIPTQ)I2,'-Z)MD4X(55'UMUZG) M/)*_4C8IOC\-8_IF<0:'W05I[((\G8T@3?
SR=D!5:GU.SS]NFK9GU7X'D\9RS M[B] K*R1RO!_NHO3>.I/HO"=V\0A;8Y%A3(W)G=D=I/Z"8F]V4?')_I9:B0+ M\KJE]F=-64I3@0TY4WGE, M\I)]AIWS/H3LOTL^) NS#"@4JRG:G;=`8HJ#>
M9/]?.P:7! BM8&W!K9V4,85]FJ8<-(JN[S2O\G MJQXJA?BBF>\2;<&?7GEQ*>BR;K>[?\UX(-_HC* M*43Q!))X"DFV;1/%H:@X,41FUU2=&*FH5NG27:L?V1# \C>W#^^4'@47.:Y
M:LE#MYPM>,H[.'NT>&S'K_>X?_(WK%5GPJRI,HB=_9AH %/\P+! M*F.KO,2^(X]==41^' <[[I;"SVS64L>F)/_@ZAW4#R=VC0(XCYT\E6S3H!* M+K0=BTH]/MSO1WNC4(-
JH90^ZY%6F&XJ&FZ'F?*R&Z5VY-U ^IFI%:=4->=S!R[08KJG :T]RVHKD8E26@]U)*LSU8 <.D/?\74$L#!!0 M (!V""%E^W?\ZU0, (D) 9 >&PO=V]R:W-
HY965TH2TL>!.=^4Q@[XD]&6;7"!YLMVIJCG=R@%KU%H+@4H7(^]I_!A.K#S MW83?..[TB0TVDY64K[;S<-GK"H+1#3^.F!Z74CK>&H? MT7]TN5,N*Z;Q65:_*48R_SH, U:RHSE[N?
\)"/(YC+2KL6=NW<)/8@;[21 M]<&9&-1_CR7?(O=/X]M])"#WK(8=[OF/>OH4\6M">+ID*0:[BX2QV)M)<-+*4!11C %1D-.AD-OIN,8+6GI/)&<;.'Y7Z+^IRP MKL8[+ZPE":5=:ZH7&'O:@/MK56%<*?
2_:8^XZ2,W0]R^HQ+_/_FYBE.H-HY= MŸC!,K?AZP= N=]Q+XM"-!V$&\\47[41$I3&*YRUIBl\!V3!5$]-.'+(]"Q_GB M23LS7+PEK' 041NG%)GD.;3M< @S5.XB%SG>41T,E=XJ^1_8C>#F* 2,.'30
MU@BC1XA2 NVG-A2I] 08V@4[)MB!3'\]Y1?3YKF)(V<.4K@)@^P67A:S&:11 M%R/L#SO[O^\._^1ZK%%MW"- DPX:8=J;LAOMWAE/[?7Z=7K[2/G,U(934A6N MR36X3TGXJWKVXVZ16W?
9KJ2AJ]N9);V54-D)]'\MI3EV;(#N]37Y&U!+ P04 M " =@@A9J7B*MN4$ #A"P &0 'AL+W=OE6JN\Z133PG&="SSJI,<6DW]=QBCG3 M/5F@H)VU5#DS]*DV?5TH9(E3RK-^X'E1/V=
<=.93]^)>S:>R-!D7>*] EWG. MU.X:,[F==?S._L<#WZ3&_NC/IP7;X!+-{\6HJ]^8R7A.0K-I0"%ZUGGRI]< M1U;>"?S!<:L/UF C64GYW7[\FLPZGG4(,XR-M<#H]#3^.FI274CK>&H? MT7]TN5,N*Z;Q65:_*48R_SH, U:RHSE[N?
MQR1K3+4Y].^h;.L M1C^N[5Y7=H-W[$9P1Y92#9]%@LEK_3[YV#@:[!V]#EH-_E:*'H1>%P(O&+38 M"YO 0V ML#/_^,&/O$\M(0R:$ 9MUN=?D.A(CFMSRK-6W=.>/:8*\57B@&!'!_N2/[^S M8Q-
B'^'!ZFN!BED\(7-.QN0DT#[Z:%!5P434GJO+)P:&># MU$ILLWKQS:#*X8P+V"%3^AS"WJ!:'JLF1 M9"@-T!$+4B^#G%F 63*=0,)XX MZR:5I2:FZ?/)2:!B*
[VF)JEAK60.\C6VB5#D<.J=%H""T,&C8,&K8RZ U8 M<,=,J;C9G>)3JZ73?+K2(->OB=(%62IJ8-4Y5'DLVVGNY)@0)'(Y@8U2PC#&7FU-Y"_Z?++&7*JMQ@C/F**!3ZW6/F MN"R=O=
E@MSE^;Q*1711)88PZ(ZCL5U&,.QZODOLB 2&H:N(,8R(UD1INC/7 MQITUAD=I*%3JYSPO\YJ'!=M5[<@?DL6 O-!Z CPO2HL$)SP(6$-E$UT&=;[D M*N,;1WQ+#W_0]4<>/& LJ8MEW&U8W-
Y@!+2UHGUC.QU!I5.Y%73OF-1AA90" M5B;\4RFP)P]\XQQHM2*8H$"JGV+F1'_EZ\;1+:,?MR M= E?I-A*J=7V>\T9:U+;X(PC?Z'D$T\HLA\EH^O+,#OB .6(49?;
M,.5(;@M.ND89OSC5@]O2V.MMS\&&?305V9$)6&YK4%-BF8$M CX7]K>15I3H M&&>E,U](0WK<0<Q)JIB.E!7:!#+-G2S5/9UN?]G-J2X_F[QV]>S(\MJ!^4Q MI>
[W[MV4:$7N47&9U#FO"O7AH%#OZD)U!6KS 'GTXRIG\P=N6H-FZXU.!Z5S6!-7^;^?6J&MM>O*OA]XZI#2?8 M,ER3JM<;4;=5U4!9?1A9N"%N)0V-A&Z9T@R.R@K0_EI2&NH/>T SU<__!5!+ M
P04 " =@@A9[A+2]GH# "C" &0 'AL+W=O3,X1GR#$?3M=(/9H5HX:D2TLR"E;7U) Q- MOL**F5-5HZ254NF*63+U,C2U1E;XHJ211E8<6X#.93/W>KYU/56,$EWFHP
M354Q_7R!0]UG01QL(C[SYI> 52L.5!(WE+#B/ M)Q>I_<.?W%-_8=WZCFC' MO#%655TPV167[3][ZLYA*V <[0E(NH#$\VXW\BROF&7SJ59KT,Z;T-S I^JC MB1R7[E+NK*953G%V?H4+"\?
W;"'0G$Q#2Y!N(L,]OZ/&&A_*[XB87RC0:XJ:C0^CS.ZJW MHA$(JH1/2B[?W*.NP/._EL2YH5*P9A?K@[B[6=^O$"Y553/Y3(61JX:@<4H< M+"VP2FG+OS-?-L3&S16.1T'GZ%R!R0*X,0V3.4*N#
4WE@O^GR1%]O MP*5%VM9"A7:EBM,V-^MR\YBYH@(W%HO-3J42]%(X(&:!Y("]'."82W)1C:'] MSO/ 708;:O&X\^@R)S+X MQ"V4B) F\ F-F4 C?ZR^/(WC>)!D\ M.3/=-
K)MXPSB(=W0R(W'$*>#M_&9&[^%9)"EP^XN=M"FC<;#T>](V%FW/:2?[3OP>=MX?KBW[?N&Z267 M!@26%!J=GI&(=-L26\JVK>AA;+4U/QP15\1J)T#]K9=*V8WA-NB_2^;_ E!+ M P04 "
=@@A9'#N&9QNPG;ZD2[$@3KL/PS[0TEDB M*I$:2<7IO]^1>HG<.FX+ S)YO)?GGKL3~=M+]5EGB 8>BUSHN9<94TY7]<\9 M%DR?RQ(%G>RD*IBAK4I]72IDB3,JK MD=5W"I\X[G5O#3:3K92?
[>8ZF7N!!80YQL9Z8/3W@&O,<^N(8/S7^/2ZD-:P MOVZ]OW&Y4RY;IG$M\[]Y8K*Y-_$@P1VK[<*DZ:P+'A2W* MQB@ZY61G%AM,B6(S@+B;@#+Y(M[MLU1
MOYSYAA!8/W[<1%O5T:)GHHWA@Q0FT_!:))@R$D93HC'R!UO/8^F=!' \O0U/!=]1%Q&+3ZB^ MPH@ACW2$=.DG=.K1$_A%E5,Q:)WQU-B
M=ZVV]4D=#/>90CQH.Z"F0=.GB\;:KE)=5]$K,VU*Q)2E1<9EH<$WC?#U? MU2.-VKHZ+-85G1=;RG 8#KZIU]"R$T9]TJZ 5 ZHL?Q&!\2^KVUZ.G]:ZH9]
MG1LKB;Y/YHF!'W4#/_KA@;^1(GUU0Q=: DNMD0C:?CE\AR_ICCXVTR=C')_I MZX32HJ%V!R!F%V=E)55)NE*GRL%=#<@2KN1T$P\2O*A)*[/R!Y:<52"024$4[&;>/)PNQS;? M)7QAT.+1G-
A*ME+>\6'?.8%5A!PR+1EH&;8PQ(XMT1&QH^>TQN.M,#C^8!] MQM5N:ME2A*7D7UFNRYGWQB,Y[&C#]9ULWT-?S[7ERR1'JR5MGQMX)&M0RZH' M&P45$]U('WH?C@#AY
P@Z@'14\#X#"#N ;$KM%/FREI13=-$R98HFVW8[,1Y MX]"F&B;L7]QH97:9P>ET!9@I5CM+Y8XL&C0)B.3%"C1E'%^25P2A,/]-)[XV M!UJ8G_7DBXX\.D,>1N16"ETB>2=RR!\3^$;I(#?X?
ND"BK8+VKMNR)+*5!REM/N@HJ[+UA M@HJ,44XQ@C6523?YEO4RMSG[Z<<[@2,3PNP;WR*-KA:E576OY0],UNENJ M"B:0<-@9RF#TVNA17?/H%EK6[OUM1O+TV]!V02SOY-
2'Q;V@*&#I[\! M4$L#!!0 (!V""%E84F,$M@, /<3 9 >&PO=V]R:W-H965T(V+ M0BCQ>?S;BAK=F(+8?S^I?Y#&_<&N0 M)_024E#Y"XXMUC) LJ>,E"V9SZ#,J^:)?K:.Z!&XCIK@M 1G3' ?(<"6)\Z
M@ML2W*>.X+4$:,K9V"X=%R&&PD5-CJ 6:*XF7J3W)9O[*Z_$0KEC-?^-'O_RZ -GP&Z%0*D'']%[M?"U\^\2AX"/#)?VNBGJCZZIU10:\I#N4X*7!4QS%]0$;X>^_V;[UI\KE.L4B MG6*Q)K%!<-
PN..Z4>OB9,%3PA"T#HMQZ#=^?7/&O<0AGP2Q8F(>^<\]!C@W% MZNFC(@7*LSQGB(K/4="%EM>A!G9ZG9W>)!VK$M=Y@I063C*?N\QTBD4ZQ6)- M8@/W^YW[_57* ;
[.X.@4BW2*Q9K$!L&9=<&9O3 '-'ROMR5MR_5'.> >6?D?-+(^#I>J4R;9#UW?>D4BW2*Q9K$!JX/ M.M<'K[3Y YW!T2D6Z12+-8D-@F-;#P=XZX7;OQ48[/_ 'VWMM0(UA^YH;T<* ME.O!
<090C6B[<*[. 7;OLF)/'P-N5FNEA9.TYZXTK6J15K58E]HP ,Y#)Q7 MR@6ML*X0Z52+M*K%NM2&(7JXKMF3%XZGY -X=D1W W]\'E"@ NOL0*! V8XC M[JW#A*"
^;!W!FF,-7N%#'[BSV0%B8*$["O6W%B[WJY*M9*UF5'_E7VYMA7] MD:AJR<+)@WQ3$KM&=997%!1XPX>R+F8\>=5-E:EI,+*3991[PA@IY>L6HQ37 M L" ;PAAIX88H*OUA?\#4$L#!!0 (
!V""%FFZ(W/?@('D& 9 M>&PO=V]R:W-H965T*Z*:JJ/IS USNIU[H/2FLV+8T=L'/)C7=PA+,JKY5./-[MEH)5(#23@BC83+WK<#Q+;;TK^,Y@KP_&Q#I92WEG)Y^+J1=80< A-Y:!XF4' M,^#
<$J&,WQVGUS_2 @_'#^P?G7?TLJ8:9I+_8(4II]ZE1PK8T(:;A=Q_@LZ/ M$YA+KMT_V7>U@4?R1AM9=6!44#'17NE]E\,!($R> 40=('HM(.X L3/:*G.V MYM30;*+DGBA;C6QVX+)Q:'3#A-
W%I5%XER'.9 O8@6B +"'"76\%G)&3DA3)!OI6PT%86>^ 9566X_[Q3< MM JB9Q1\:<0YB8-W) JB9 ^>QD^AQSAH8/'C^^9M'$O6!1(XO_D<@&R6K
M/H>C&'Y>K[5;_S5DM^5/AOGMJ1SKFN8P]?#8:5 [\+*W;\)1\&'(_'\B>Q1% MW$<1O\2>]ZIUF &M[8E&#D"VS!V61R%N V[0P]/BR[#M*]Y)"WII24O2EN) M->,<"FPD.; =77,8U->RI
>/3M,D/=+WM.CJ*DB&!::]P/1UV7%&42H>+-!C MVU] *2?;O65#DM,G:84! _HXT#U5=C,(CT?Y!8[!-^2M56R8TX;!!7'!^@32J M;73MQ,C:]8JU-/BJNV&)WP90M@#O;Z0T#Q/;?OJO3?874$L#!!0 (
!V" M"%ES\Z4E0, &D3 9 >&PO=V]R:W-H965TRT,VWX,":)\:F"3!-I^UDDJ9[L;,7,AR#IB!Y)=E._WTE MP,1.";&WBB]L)/0^!YT7'8RF6\:_BP) HONJI&)F%5(N)[8MT@(J+$[8$J@Z
MLV"\PE(U>6Z+)0>P*$VJ%T[KOFH=3MI(EH7#-D5A5%>8_+]!D MFYGE6MN.&Y(74G?8X72)<[@%>;>\YJIE=Y2,5$ %811Q6,RL]^XD<1TMJ$=\ M([1.\=(3V7.V'?
=N,IFEJ.O"$I(I49@];.&2RA+35+7\5\+M;J86KA[O*4G M]>359.98P"4K_R:9+&;6F84R6.!5*6_8Y@.T$QIK7LI*47^C33-V[%DH70G) MJE:LKJ BM/G%]VTB=@2*TR_P6H'W6. _(1BU@M&A$?
Q6X!\:8=P*QH<*@E80 MU+EODE5G.L(2AU/.-HCKT8JF#X@[:K5*,*ZSK]57)TE2B?#&U@#70&Z@93E ME-1NOT-?,,=86XY>1R Q*<4;U7MW&Z'7KJY],;::D":[F==MD$NFB#>$T%&Z#.C MLA
HIAED/?IH6!\,Z&TUX6[6WG;6%]X@\..*GJ"1\Q9YCN?W7,_EX?)1WW1^ M+WK\>]&387D$J9*[??*]7(ZZ.VA4\T9/\8C >T_]\TD-15<2 M*O%OWTW3+266D'')4*]6*%#*)MP7C\MU7X!6ZHW-2EBI[
MJO@"6>-Y";UI&P0>NTY,PB*3L-@D+#$$V[,XZ"P.7J@B!B:=-@F+3,)BD[#$ M$&S/Z=/.Z=/!Q=RM8/ZP@M\BRB32_;K9YW+#'.\4*-]W].=1,1R,?:R!!P:- M309-3G\IQ>?N?
M*]M)U:\3/LG1O/C2N@@[]B%91(6F83%)F&)(=B>P^>= MP^7;D]_ MY$[B9M?G =]L0GU6;P2$"E3"0H5R3D[5LX8W^SI-0[AO5)EO0\Q9U*RJCXL &? M]0!U?L&8W#9T@&YW+?P)4$L#!!0 (
!V""%EJ6D55I@, /T, 9 M>&PO=V]R:W-H965T'GLFTZ.0WU0! MH,GWJN1JYA1:[R:NJ[(""JKNQ XXOMD(65&-2[EUU4X"S:U25;J!YR5N11EW MYE.[]RCG4['7)>/P*(G:5Q65?
RV@%,>9XSNGC2>V+;39<.?3'=W",^BONT>) M*[=%R5D%7#'!B83-S'GP)ZNQD;<"OS,XJK-G8B)9" '-+#[F,\)DHE?TEQT;6_]/O31[.%!!G6"%H%(*N0O2"
M0M@HA*^U$#4*T6LMQ(V"#=VM8(>)2ZFF\ZD41R*-^*9!YM]JXWY8MSPY%E+ M?,M03\^?X !\#^0),K'ES!,O/>GL_@TY2?>2\2UY!,E$3MZFH"DKU3L4_OJ< MDK=OWI$WA"'RI1!
[17FNIJY&]XP1-VM<6=2N!"^X$I+/@NM"D17/(1_03Z_K M)U?T74Q+FYO@E)M%$ WXLWR>C@4SH]97_UOZQ?)"%NB MA!8O? 'OH1)[KA76."OWF%]3[SS+?&HDY+1-2N1/: (U4070-
:P99P;RHB- MW=A9YDR&>%%;CH8MFYMRHG8T@YF#5Z$">0!G O-/?N+].E246X*EMP1;W0CL MHGQ16[[H&OHZ%(H[0O%GGU_43"^)05O M"9;>$FQU([*+8B1M,9*K%.P4
Y1FV.CQ)L$[A"M:#PX[R9"AM"Q%5K\3IFK7 MJ6L044_(IL"#O:?V+3ZCU_OD/NZ0N2\4AG'2(?, 4AR%'38//(/F1\SF49O MT8^=8;*1HB(A3_%[[^,/A,)?9M14K8H"GO;H0UD?6P72^TV-
EI&ULS51=;]LV%/TKA%8,+9!$(B5_9;:! MIMFP#AMFV.WV4/2!D6A;J"1Z)&VGP'[*%D1UY9DRAQS3)Y,19*[6Y=5T9KEE*Y0W?L$P?67*14J5WQK]8J_*= MCC=TQ19,?=S,A-
YS*Y0H3EDF8YXAP983YRV^O0N"?$(QXJ^8[65M&^6A/#^ M)=]Y"TT<+V?$&A:J'(+JCQU[QY(D1](_BE!G>]<^<3ZJA/Z+T7P.I@'*MD[MGOP=1VH]<88.BMB2;A,U,YM?61E0+\<+>2*+_VA?
CO4<%&ZEXFDY63-(X^SP M21_+"U&;0$C#!%).(7OPXD*EO=4T>E8\#T2^6B-EF\4H1:S-;DXR[.R4$(? MC?4\-9VS'_3ZU9MO85P= M214.J<(A!6X
AW.EX\DE&6>KAEBNT,^/&ZT,%J$/<9J/XTNTT(?DDH:' 0M% MA4+ZJC+TZ>UC+#_?%FROO<&UAX^%#%++;Z];N:$AFSCZ_I%,[)@S_?$'W/=^ M @+WJ\#] MUO"/P^EG2U$JS,E [F*;.??
M=#T7O%4OGY&&O? NN@8AV Z:IR MH*HV+8Y;Y++OH77;2DAMEVS8=Q:CRT)20;4HN-TV+0 M$I\CI-' A#0:-NF(&,\DUCRS!?F$TIX8UR2P:UY"[D"Y#[/MJ!I2:YYM^2BQ MX:/$^"B!??1TN9=
W_UN-JC=6*"QUL>V(+=6B,2X(H$;V4MH'>A$8+9=)6.L MEMCJ;HF-]I88AR8M#GVZU@?/T+KQ1 *WK^=H'49NU[KQ/]+B?Q?0.M ?P6R[
M/AHT9NQ[MAX.@E[@E4UWJ#TGUCAS[\,/D,I/>/NS>YX@1 M1CZAH/:-K?IP!_LBY =4V##]KEDTYNT/;,G/1B?L&]?WK;E^"W*KZ_O&]7W8 M]5^$^("2%Z;?=:W-E &!K3(@L%$&!*8,".
RX)QE0ABY57R!J1:"MJ7G%R ^ MH :%Z7?-H:E+ EL+U(&5%>K:$K6]->H.)"1ORSS!Q6K.),H84N- M[-T,M,.+P_LGAQW%-\4[*P]<*9X6FVM&(R;R ?KXDG/UM). _1E*]33]#U!+ M P04
="@@A9NQ//!I@# H$0 &0 'AL+W=OEF0X$@<+=,DCN>9F7><:9SYCO$O(@60Z"[/]%A8J93%A6V= M.(4DFTJ]8 <S N\A37()\6*JRN[H20D!RH(HXC#9F%=
MNA>1ZV@#,^,#@9TX.$A>J&L)5=WB;*3P1NU%E\Q(5 ! M'*U3S $]KXX"O6$27=,X*Q-($*%HR?*BE-@4F&U02+)2JCL-8M4@GH0@,? M]-C;2KE&/F\OWY77"_R_I&?(=YXAS_%&'?$L3S?
WN]+Y,^_1;WMOB>$W:\DW M/^!WB65)-&+0CWZ: UQR8DJN;17;V&-ISEQZLHPIP2NCU*3"ZEI"+ MSUUKI(IBU!V%[JP7HL
Q+"S5.@7P6["^QX_%]J.@GJ)8.XT:'<:\.=2$10/!6N6:-.6:_!,=:#)D*8>$A4/" MHH%@K5).FU)._W8'FMYO&][YS#_J0/=G=72@DU#13U M'$10/!6J5TG1];'>=O
MMY3:P^$C/M*OWJV.TC').>HGIW"B7DZE@7VP\N!;\V66Z"8E516+^[-:+.M MOS2;V:/Q*_=BZ7:,A_HS@-EI_L!7WQ!>8[XE5* ,-LJ5<-DVH7:TY3P.K]24]0]S>,R?V%=M!\' F^ U!+ P04 "
=@@A9 .!8 M^9\" #K!P &0 'AL+W=OYCVX";7UL*QB^VTL%^_LY-F!86"-EX: M^WS?]_G.U[MD(]6M7@(8TIC5P=!UOH22ZF.Y H$G M*:"% Y7<#X.@[Y>4"2]-G.U*18FL#&<<'KA3155E2]3
"+C=#K^=M#==LL336 MX*?)BBY@"N9F=:5PY[F>]P22V_L[A.X.-WED3&\E,REN[M.2^&7F 0!QR8QDH?M8P!LXM$5[CKN'T6DD+W%UOV;^XV#&6&=4PEOP'*\QR MZ'WR2 %S6G%S+3=?
H8GGQ/+EDFOW2S:U[VGDD;S21I8-&&]0,E%_Z7V3AQT M\G0#P@80/@7$SP"B!A"]5B%N /%K%4X:@ O=KV-WBBS5H@P]O-&&"7$IQ=$'5+1@ZXT"FD%>*&0:')%+
MJA2USTH.,CQG7']$Z\TT(P?O/R:^P=M83C]OE$>U=LOBY]E,&X5_]U]=%5!KQ-T:M@4.](KF M,/2PQVE0:_#2#^]Z_>!S5_K?DBQ[2[+)&Y$]>JBX?:AX'WMZ(W \/[2UV,06]W"YHG#'*6"XU-L
MKJH>+?7&R)7KG3-IL!.[Y1*G,2CK@.=S*%?S\["2%A M(1U;^M+8R3W'YUS?--?##>/W(@20Z#&.J!@9H92K8],400@Q%D=L!50]63 > M8ZFF?
&F*%0<\3T%Q9#J6Y6DQ)M3PA^F]2^X/62(C0N&2(Y'$,>9/IQ"QS<;5V092GW#](3.8CP]**(0 :@JL+FL80Q1I]J7C(2ANGDJNG1.&D/Z%K$%+MBQ2(4/2=T<,+S.]!XED$: I!PHDD(- A&F/.GPA=
MHEL<)8 PG:-S3'@^98MRI/Z98B"1.%"XF^D9VM\[0'MZ@>N0)4)!Q="42KX6 M80:YU--,JO.&U*\)/4*N]0DYEM.I@8^;X6<0*+B=PMTJW%1)*S+G%)ES4C[W M#;[Z-/W\IL+01$(L?
M59S#@[)9SZG3T6*QS R% OI0"^!L/_^,'VK,]UAELB MJ]AW"_MN$[M_S22.$%7U$K\D AX2(I^0*/)1EX*,UTMY];_,VA_T+&MHKLO6 MM@15)'<*R9U&R18=_;445F MO-U2L7G>P'U5D5N"*I)
[A>1>HV0!#W?]"U:GJ1'XWFUIB:SBL5]X[.^@*OMM MVF^)K&) 4-@?[*@J!W\4G.,YW5=5N26H(MFV7IH"JU'T#QD"5Y_K2F_P+QZ: MUWGO/K;%5LU*J56R=U#).6E;*6B)K9J"EY[';NPI_J.:
<^+R%]WM.Z^J>4M0 M)MHL=;OZJ*&V94FH0!$L%,HZZJFW@6?=>S:1;)4VP#,F53N=#D-UX@&N]3S M!6/R>):[ZN(,Y?\&4$L#!!0 (!V""%D=M]&3& @ =(9 >&PO M=V]R:W-
H965T6XD#$_ST#Y_ M2K,O^9(QCK[%49)?C):(@/TU7+!'OW*=9''#Q-'L8YZN,!8NR M4QR-\61"QW$0)J/9>?G:AVQVGJYY%";L0X;R=1P'V?
&, .5\$#NV\=O4A$\ &6RF+,$)*]8)RMC]Q>BU\^K2]XH.90^(7O* M=QZCPI6[-/U2/+E:7(PFA44L8G->B C$OT=VR:*HD"3L^%H)'6UU%AUW' _^0
M_JYT7CAS^3L,HW^"A=\>3$Z&Z$%NP_6$?^8/OW.*H=* ^=IE)=_T5/5=C)" M\W7.T[CJ+"R(PV3S/_A6!6*G@^/NZ8"K#KAI!U)U(*6C&\M*M]X&/)B=9^D3 MRHK60EKQH(Q-V5MX$R;%,-
[P3+P;BGY\]BX(,_0YB-8,O6=!OLZ8&".>HQ-T MLQE8E-ZC=V$2)/,PB-!5DO-LO6E2M5^@@*,=,<78H(]LOLZR,'E ;X(\S-'S MMXP'892_$(]O;]ZBY\]>H&1A*7\LC!2+Y$K_.AQ
M1IVI=SY^W#5<;W3FNWC;2#'(W1KD@@;=BK$(HO!?,5_841HG)H;"=Z.WDG- M,JB%8I:W-BGN-0LTW^UB:_FTV^P29G.JW9I+<";#K;VG0&VK2(;[ZZ2U9KG+]$U M>V01])6%*,*;;8$P'E2^G-@-
G29@2 M.&QVG&RT1PF>;YLX.5#A'9]!* M!)1"P2:J:7*7=L"]K%D6K62 MD%-5-OD1NC .Z%<$D:C2+,QU9M!8RHW10?> M%?QQM4KG) $F@=/$O2U.!).'!@.FB0K70"%R* M_?
K,!O5T]4,"A0,31:.DIG.#MCY!+5V]D CBP S2+/^=-RA93DU3:N+6?>AC(\=R(\?P1@[D5 &$EVD)6EJ\':.'V"P.9QFL8XLCD-H/4'!>KKZ(2$(PQ#4 M),UBG7$T+T M7;V0M(0;GR'L3[-8/R,XH74_^B ?
+,D'PX<.<);%^E&"F%% > M/-Y:XHPI&'Q2#)<5@?U@YUA+N5,'K M YZPA"<,PU.#'*N3$YD2;4'T@4Y8HA.&T:E1BM4!2DNQ?< 3D?!$8'AJE&*) M?L)QHITA]T$]1%
(/@0]+X!1+]#,0,L7UXTI815<7')'L0F#W@#'M'>G.*>%9F ME>\H+Q)(F6B,[EHM:]B2IH9EI[!!!I5KB27FJ8+7!T$125 $)JC#N9;H^"1R M+:E_3H7U=/5#$A1I7+;9FVP)5)*IO.B#H8AD* (S5+-
DJY_CG#CU:@^LJ*LC MDG\(?(IS(-OJYS=B2F&G[D,?&$(DAA 80XJ*:9DCR@>_?EV'CT%4U.2-+EFM M&-F2IGHNR84,JVA$K%:-;$E3]H2F%P8F/85VEV=D0R5=D,KH-0NZ<>%Z6=O
MG=;5P<M#QYR)0^Y M=%@SWNH9E"UI:O D@[G',)A[N(8&R^]JO^0OMR-_P8NB84D'5MYZJ/L -E<" MFSLL8'.M ILM:>1]/PEL7M/RH/&JGPYD]74"R^]JOV0[#V:[8];)H4-Y6'7;
M@;8E30V4A$UO6'>/:OP:4N:&CP)G]XQMZ:\PZ5"6'Y7^R7_>3# _=5\E;0Y6 M82-:#WD?9VK>SDWH8=W"\JRBJRUI:O DNGI-RZ%&5_4S/&V]]$&/GJ1'#Z;' MFV6:\1/.LE@LB4>6\WC?
T1I#5Z#*W1P[1&]:]\[9O[LHC& =YK[QB M6 MTWJD^H L*B&+#@NRJ%7(LB5-#=[.-^*.@2QJO/"NI_D^0(M*T*)=0,O*&1>L MN?58]T%F5)(9'1:94:MD9DN:&CQ)9O28:_Q4AR_3!5-81TJK!?]
MFA>LHZT/XYU?:2K=(N=]D#V$28XB=B_$3TX+;=GF5V&PO=V]R:W-H965T2]#+/]?P]A4QL)D[/V0INV"K51N"&XX*N MX!;T77$M<>LM^9F/'6!94P4QDWUFBTXGSR2$) M+&F9Z1NQ^0)U/
;!6&3*/LFFUO4<$I=*B[P&HP-<;>I_;"O669-%;DLW? MB.Q)2?M-2?M=[.$,:\4TR0264[75H((/+=Q,F'7HC=WU;F+W:D1[->9=&D_B M&C1Q#3KC^J93D,87F!6QLXZ !WL#WJL1[=68=VE4 ;L[
M)W@.&PO=V]R:W-H965T2G+LQYR67&%?/SQ5FE\;2JF(^#(/$K0KF7I6[O1F:I:#2C'&XD4DU5$?ER"4RT M"R_TWC9NZ;;4=L//TIIL80WZOKZ1)O('EH)6P!45'$G8++P?X<4RL?DNX0^%
M5HW6R#IY%.+)!M?%P@NL(&"0:\M S&'T2V#,$AD9?WM.;RAI@>/U&_N5\VZ\ M/!(%2\$>:*'+A7?NH0(VI&'Z5K0_H?<36[Y<,.6NJ.URY]A#>:.TJ'JP45!1 MWMW)<]^'$2"#8!7QZ&KR W\-#!
MH_=PW[1@Z ,>^H =7_0)W]H]O5+F 3?I^S^)[)WYJ/!?'2(/;LEK?FF-$A*V*33#IXXN)T+ MNRP,SE-_S9P..>=KMF@:W90UX.9 *>4G]92Y* FE74$\:AJLJ?K8\9\6E4\ MJ(H/JKJBG)H#5Z"M$--??ORA)
[# 7Y-),7S8%I:,DA+#DJ[$YJP\=&=4I=\ M>%$81WA/W412 5!+ P04 " =@@A930S%2)(" "= M!@ &0 'AL+W=OW.2VL>;$P7;:\>^Y=K*HV[(*(5X2^_J>XW.N MG9MX)]6=SA$-W!>B%O)-
Z:Z\V=YE@P/9 5EK2REJI@AJ9JX^M*(6YRA$):(9/QJ.;UN2PO<'S^POW?>R@%0-0"HK\% M#%O T!EME#E;8$CQT\.%CN$_^NR)71BQS=\@>^KR5'! M9\Y67'#ED>K =2JDKA7"C\N5-
HJNV\\^GPWQJ)_8?H(7NF(I3CWZQC2J+7K) MZU?A)'C7Y_H_D3VJP;"KP? 0>[)06#&> =Y3@]!X2I=/*2Q-G^F&Z=PQV3:Q M3:)!&/O;?2 _Λ["-^YJI#2U\"%P3*AB\(1+5-,-F8F3E^LE*&NI.;IC3_P.5
M3:#UM93F86);5/=!2OX 4$L#!!0 (!V""%GOB8OI*P8 *@Q 9 M>&PO=V]R:W-H965T*3=M")=&EJ+C=IQ_U$,F2:BR_IEC&)OL51DMX,ME+NKH?#=+EE<9"^XSN6J$_67,2!5&_%9ICN! M6
MA5$<#X'2+(X#\?V617Q_,\"#YP.?PLU6 MY@>&\]DNV+ ')C_O[H5Z-ZPIJS!F21KR! FVOAF\Q[<^F>0&Q8@_0[9/#UZC M_%0>.?^2O_FPNAF,\AFQB"UEC@C4OR>V8%&4D]0\OE;00:V9&QZ^?
J;[QDD=I\1?MJ[&C 5IFJ>1Q M9:QF$(=)^3_X5CGBP$!Q] :D,B!= _N$@5496.DT$8I>@MNA=J]0KY'07)"M&O6;A3ZTE>H42M]M?5L#=JW.<'#[U^]0:]
M0F&" MCR+%4&Z6PHU>1RB>&RFLAM.1%R8B(6^L@3N4T1359LI;'WS/:NP7ZH MG%)[ACQ[YI88@;]ER3MDC:X0&1%;,Y_%^>:6[G1^3)W^F+IO-O?84IECG7G+
MEU:]RJR"9YW@/2^F*W2OEIMLKRGTJYT:CCY(%]?_Z!9.R;;U[#SU7J>[8,EN M!BJWIDP\L<\YY^P. I%%S5(F <)HY P'PC6BK9=1]LVT>>MU,&>PZR+;,EQ M"TY^#WR:.]9X,IX-GPY#9E3K&
[*S)"FDI*^1M,?322W9FU MNC$OLSB+ LE6ZGZJ)K,,@_*.K5P?Q%S(\- B@,[[I8!S,*^WUG1"<,?]QGGT M=?]YFA12T]=J6ACK ^#6 7!?L,J+&Z3.V>[1)+ U==V.KXV2?7U]EB2%E/0U MDHY]
<'6U/#VN/3TV>MH[6-@ZUXZ/18DU[7AY'018GLR:@_RCDG$GG;7YC&) M3.V.5WWC&;TP_TYJ?TV_ OJDB(%8;HN5N6)/JGPXF8&-I+[W5DB8!PFCD# ? M"-:*[;2.[?2"3U)3R&A#PCQ(&
(6$^4"P5K3QJ"G/1C^4^RKS5O;D4Y>6^A& M$9MTLI]F%!DYG5%4-\J>=/.?^;1>ZK:#JA8;W?; (G5H"JM!K8BMVVF?5Z1^XL40HJZNM$QP2[^C8$ M;OH0V-R(N&-!RK8\6J5PW@G^Q')7Z[_K
K_JY! TCQ0&@6E^5"T=H";Q@F> M7##@C930&D>*(V"TGPH6COH34<%&TOX/AET>EQ&XVGW*6]AUNL=N;-$*:BH MKQ?%1)!2=/.(.9VQH+'NTPRT?BY\'K*UW(?"&U-;B;VO:I
:1XHC8+2?"A: M.])-!X;@"Z92 MJ(:5YH#0*2O.A:.V@-XT88JSY>Z32"M2JSEVG^]6C6:YW MX,[1I*":OD[3<9T3>;1!?A!S\^/W]3I*(V"TGPH6COH32.'F/=V]$BCQWL;,;=705F
MN=Z!.T>3@FKZ.DW;G9Y(HTWSA)B>)PN>I%)DY2;7,$&J]-^HV6A+>C,J]4$ MVF4!I5%0F@%:X>XZ=F0\243*&@?!Y3FG=(H*,V'HK6#WO1QB'D!3(\$.CG> M%^1@JYM 07LQ9VE24$U?
I^E:W8[H\& C>[A:UK^:*#!E[]A^!B(39BD*&)K)35Z-U:Y7I0_"RC?2+XK MMK$_O M',J? @ %0< !D !X;"]W;W)K&ULK55=;],P M%/TK5IC0D&#Y3ME((VVM$" 0T[K! ^+!36X::XX=;*
<=_Q[;24/79M60>&G\ M<<_Q.=>]U^F&BWM9 2CT4%,FITZE5'/ANC*OH,;RC#?]${)18V5GHJ5*QL! MN+"@FKJ!YR5NC0ESLM2N78LLY:VBA,&U0+*M:RQ^7P'EFZGC.]N%&[*]E%EP
ML[3!*UB NFNNA

MRVVEXSYU]&^ECTE-#FXMCOS)GM;#H&@2QGM:W9VF91Z,+UBL").(0JEAWME$ M>Q5=$^XFBC>VCRVYTEW1#BO];H$P 7J_Y%QM)Z8U#B]A]@=02P,$% @ M(((((6;3MEM^F" >E, !D !X;"]W;W)K&UL MQ9Q?;^,V%L6_"N%=%%,@'9N4_V83 TDDJBVV;3#I[#X4^\#8="R,+;D2G606 M^^&7DA5+C&C:ZIP@+Q-;YOU=6?>,>'5,Z>(I2;]D2RD5>5ZOXNRRLU1J<][M M9K.E7(OL8[*1L?YDD:1KH?3;]*&;;5(IYD70>M5EO=ZPNQ91W)E>%-MNT^E% MLE6K*):W*ERC=TIQ<;\2#OI/J\N4WUN^Z> M,H_6,LZB)":I7%QVKNAYZ$WR@&+$OR+YE-5>D_RKW"?)E_S-3 /+3B ?([F2 M,Y4CA/[S*& D:I63]'\64([^YQY8/WU"YT77UY_F7N1R9MD]>]HKI:7G7&' MS.5";%?J4 -+THRR_T"#GS9)55OQ+GLJQOOZ9;3.5K,M@0O?K*-[]%< E@:@% M:(\@)4![5 _T" 5P9XIV;HEP']4S,,RH#!J1F&9<#PU RC,F!4%&MW=(O2 M^$*)Z46:/)$T'ZUI^8NBOD6TKD@4YU*\4ZG^--)Q:GJGDMF7')BSLE-LM8* MST2AD1_(KR)-12X4\L&72D2K['N]]?.=3S[_? N+KM+9/2,L![K M6_;GYDCX-@_O%>&>[7"<'F[+'GQ;=OYMV<._G-THA;=7L5?PO$,J7HI4VE1\ MI24Y>_;\^?SQ7FV M$3-YV=$30B;31]F9?ON3Q.^\.Q;F5Z%]W'NC:: MX]A(,U^/X\UQH_' :XP+F^,& S:HCS.*-=@7:^ NEFYKHOCAC#S(6*9B140\ M)V*NY\XH4[L)S58?)[1M?9 P'PD+D#".A(4@F*&9X5XSPW>>/YQ>2%A/A(6 M(&$<^0M!,$->H[V\1F\^?S@SM!40$N;O8(/:>=R;]'O- ^6/4.- 3,1LUYX[M;TA'S7DF;/(\/=$.,LVDKIC&I;2B3,1\(")(PC82$(9HB"]BH[I/?. MG4"Y R"%06D^E!9 :1Q*"U$T4V8UUXTZSSXWB9Y)9MO"74L6*YGJ*Q:RT\2 MF[-U[::UUHQ[WUB?K NGS*H0Y)X$4!J'TD(4S50(JQ3"G%6XW::SI3Z]D$T: MS7*1Y,V(K@O)\O[$*A(GL+5(=C1*:[-X[^-X8$[A/C1I *5Q*"U$T4P]5 XG M=3I<4QX]%PUIK-+H?EM,2:E0UF[436HM!*_9S0T:O9P/31I :1Q*"U$T4PB5 M%TG=9N2OV_6]3/,30i;W(!D16[5,TNB_6AX?HKC<:O^!!FI"EK3ZA9JUS?>A M:8-3TW)HVO'$M&9!*[^2'C$L:ZVD<<$IS)8SL[D(>L^XI@BH#XEE..:7-*,VX]&04OI:$E 7\M2T M(2JMJ8G*8Z1O;S*Z4[0N/1FI$V ;V3YE M<1=/J-*CS)3^N#RWSY),Z:V*?)5*_]^>)0]Q/M>?$;%.MK&REA'J1T)I?DDS M[%V;(0G-RD_,&]*RFNJH/$GJ-B4+[YG\MLFG?]OE][4[OG5EH?XDE!9 :1Q* M"U$T<]E1Y5&R]4H$=2CA-)*"V TCB4%])HILPJCY*Y?4!$0^%.T5I(2)I? MTHPK.DJ;/T@&EH&T-[&L"D'&C]}&HPQK@+]GW:G&9LJ7MT7/!BDE6V(7;/AL'S)DIW M9X/#=K*;T;HJ2)H/I050&C]R[&E/]V@BM4W<(6I'3%E4[B%SNX>[TW[>6+I_M:#B"\0Y^P1MW9&L50-U$*(T?.49]APC>PCEDE7/(W,ZAT2O8KB@*/X$DA]M/ M=X+6)P[H,D;6-.BH?:T#-"]GS76,]KPA*]J9_LIG9$=\QOK%!?D?^5U/Y;.E M)+_%]JD;:@Y':3Z4%D!I'$H+4313,Y71R-Y[822#.HY0F@^E!5 :A])"%,V4 M6>5=,K=W>7)[XL;08NJUZ@)]14)I 93&_^HA"E& [84J@,D:9VQ@U)9#F=Q#: M6Y"Q;5V"YYES[8T[6^N"(VD!E,;M!X0-7C$TGPH+8#2.)06HFCF/7V5S^F]M_I07U.*,V'T(HC4-I(8IFRJSR.3VW MSWE]\W$$PPY[(^[(ŪL* +L&$TOB18W38/PI1^V&*H)/-/;=W=VK[X5F710Y' MK]H/=[;6%8=ZHE :MQ^0T>OV Y74+&_M_G"W*??I[K.]G:C[NK$W=F/O[,;> MVHV]M_LM?%&O\D6]_GOW&5#?%$KSH;0 2N-06HBBF3*K_%?/[;^>/,5 C5L4V 4?&@-MPQD_:%E\;!UX&1R<(F/5UFIGMM*/?XS?JVJ MQ2+BC"1J*5.BEB)V_;SO3MRZE%#7M:35C^?0^NL^-"T -6V(2KL31;?V1+^U M3!^*AS5F9):O^,Z3U+;N'PAY53P&\=7V:WI^0RW;?TH>V+9S>A[N'@-9I=T] ME?(7D3Y$<4968#].>+)%$O M; .($^\=M3O\/4$L#!!0 ("""%F=J=@?S@4 -@] 9 >&PO=V]R M:W-H965TMXMA%ZS%V$(ET2/IN-VO'R4KDB71:KP=P#>-)) S4(>'?JO7XG3Q3\1 Y M84RAKUF:R)O11JGMS7@L5QN64?F.;/NDVM/WGD(J-GXKU6&X%HW&9E*5C8EG> M.*-)/II-RVL+,9ORG4J3G"T$DKLLH^+:/4OY_G:$1\\7'I+U1A47QK/IEJ[9 MDJE/VX709^.:$B<9RV7"H*.4SYU^*DP_Q M[<@[HBE;*4*!-5_GMB_I'$ M:G, ["D8H9H]TEZH'OO^)506Y!6 %4UG^B_95K#5"]YU4/*N21JUD27[X2[]6 M$W&4H#GF!%(ED&Z"+)2E$OK31.>IV5+QU9?K8JIC-.>97G^2EAV\1B<_BKX6 MQPR]"9FB22K?ZN!/RQ"]>? 46O4))CG[;\)VD>2RG8Z7OL1AIO*KNY_YP/^3$ M_=CH(_51J(HCUELR ^\[V! _+&>FWJ"R/,$W9-!X,^[_!VRK2M$+.(8[F?^ M\G3;5,[_&SWZSZ.W)L.N5XM=\NQ3JV5#!:N6Q()^TX*AT)T0-%^SXOCJ>6G$ M2'DV431-_F'Q%;K+^$Y`__F+1J(/BF7R+]/J.(SOF,2BO]S MGF:.%Y#I^.EXFOM!Q,=>.RCL! F!:[>#HGZ0ZQ*W#FJ5Z];ENM\O%_%M4:)1 MD ;3SUURD+ 0$A8!P5H]\.H>>!? 6#0^RB9"P$!(6 <%:3?3K)O!@NGS@N<>2 M@+'?TH>V+9S>A[N'@-9I=T] ME?(7D3Y$<4968#].>+)%$O M; .($^\=M3O\/4$L#!!0 ("""%F=J=@?S@4 -@] 9 >&PO=V]R M:W-H965TMXMA%ZS%V$(ET2/IN-VO'R4KDB71:KP=P#>-))_S4(>'?JO7XG3Q3\1 Y M84RAKUF:R)O11JGMS7@L5QN64?F.;/NDVM/WGD(J-GXKU6&X%HW&9E*5C8EG> M.*-)/II-RVL+,9ORG4J3G"T$DKLLH^+:/4OY_G:$1\\7'I+U1A47QK/IEJ[9 MDJE/VX709^.:$B<9RV7"H*.4SYU^*DP_Q M[<@[HBE;*4*!-5_GMB_I'$ M:G, ["D8H9H]TEZH'OO^)506Y!6 %4UG^B_95K#5"]YU4/*N21JUD27[X2[]6 M$W&4H#GF!%(ED&Z"+)2E$OK31.>IV5+QU9?K8JIC-.>97G^2EAV\1B<_BKX6 MQPR]"9FB22K?ZN!/RQ"]>? 46O4))CG[;\)VD>2RG8Z7OL1AIO*KNY_YP/^3$ M_=CH(_51J(HCUELR ^\[V! _+&>FWJ"R/,$W9-!X,^[_!VRK2M$+.(8[F?^ M\G3;5,[_&SWZSZ.W)L.N5XM=\NQ3JV5#!:N6Q()^TX*AT)T0-%^SXOCJ>6G$ M2'DV431-_F'Q%;K+^$Y`__F+1J(/BF7R+]/J.(SOF,2BO]S MGF:.%Y#I^.EXFOM!Q,=>.RCL! F!:[>#HGZ0ZQ*W#FJ5Z];ENM\O%_%M4:)1 MD ;3SUURD+ 0$A8!P5H]\.H>>!? 6#0^RB9"P$!(6 <%:3?3K)O!@NGS@N<>2 M@+'?TH>V+9S>A[N'@-9I=T] ME?(7D3Y$<4968#].>+)%$O M; .($^\=M3O\/4$L#!!0 ("""%F=J=@?S@4 -@] 9 >&PO=V]R M:W-H965TMXMA%ZS%V$(ET2/IN-VO'R4KDB71:KP=P#>-))_S4(>'?JO7XG3Q3\1 Y M84RAKUF:R)O11JGMS7@L5QN64?F.;/NDVM/WGD(J-GXKU6&X%HW&9E*5C8EG> M.*-)/II-RVL+,9ORG4J3G"T$DKLLH^+:/4OY_G:$1\\7'I+U1A47QK/IEJ[9 MDJE/VX709^.:$B<9RV7"H*.4SYU^*DP_Q M[<@[HBE;*4*!-5_GMB_I'$ M:G, ["D8H9H]TEZH'OO^)506Y!6 %4UG^B_95K#5"]YU4/*N21JUD27[X2[]6 M$W&4H#GF!%(ED&Z"+)2E$OK31.>IV5+QU9?K8JIC-.>97G^2EAV\1B<_BKX6 MQPR]"9FB22K?ZN!/RQ"]>? 46O4))CG[;\)VD>2RG8Z7OL1AIO*KNY_YP/^3$ M_=CH(_51J(HCUELR ^\[V! _+&>FWJ"R/,$W9-!X,^[_!VRK2M$+.(8[F?^ M\G3;5,[_&SWZSZ.W)L.N5XM=\NQ3JV5#!:N6Q()^TX*AT)T0-%^SXOCJ>6G$ M2'DV431-_F'Q%;K+^$Y`__F+1J(/BF7R+]/J.(SOF,2BO]S MGF:.%Y#I^.EXFOM!Q,=>.RCL! F!:[>#HGZ0ZQ*W#FJ5Z];ENM\O%_%M4:)1 MD ;3SUURD+ 0$A8!P5H]\.H>>!? 6#0^RB9"P$!(6 <%:3?3K)O!@NGS@N<>2 M@+'?TH>V+9S>A[N'@-9I=T] ME?(7D3Y$<4968#].>+)%$O M; .($^\=M3O\/4$L#!!0 ("""%F=J=@?S@4 -@] 9 >&PO=V]R M:W-H965TMXMA%ZS%V$(ET2/IN-VO'R4KDB71:KP=P#>-))_S4(>'?JO7XG3Q3\1 Y M84RAKUF:R)O11JGMS7@L5QN64?F.;/NDVM/WGD(J-GXKU6&X%HW&9E*5C8EG> M.*-)/II-RVL+,9ORG4J3G"T$DKLLH^+:/4OY_G:$1\\7'I+U1A47QK/IEJ[9 MDJE/VX709^.:$B<9RV7"H*.4SYU^*DP_Q M[<@[HBE;*4*!-5_GMB_I'$ M:G, ["D8H9H]TEZH'OO^)506Y!6 %4UG^B_95K#5"]YU4/*N21JUD27[X2[]6 M$W&4H#GF!%(ED&Z"+)2E$OK31.>IV5+QU9?K8JIC-.>97G^2EAV\1B<_BKX6 MQPR]"9FB22K?ZN!/RQ"]>? 46O4))CG[;\)VD>2RG8Z7OL1AIO*KNY_YP/^3$ M_=CH(_51J(HCUELR ^\[V! _+&>FWJ"R/,$W9-!X,^[_!VRK2M$+.(8[F?^ M\G3;5,[_&SWZSZ.W)L.N5XM=\NQ3JV5#!:N6Q()^TX*AT)T0-%^SXOCJ>6G$ M2'DV431-_F'Q%;K+^$Y`__F+1J(/BF7R+]/J.(SOF,2BO]S MGF:.%Y#I^.EXFOM!Q,=>.RCL! F!:[>#HGZ0ZQ*W#FJ5Z];ENM\O%_%M4:)1 MD ;3SUURD+ 0$A8!P5H]\.H>>!? 6#0^RB9"P$!(6 <%:3?3K)O!@NGS@N<>2 M@+'?TH>V+9S>A[N'@-9I=T] ME?(7D3Y$<4968#].>+)%$O M; .($^\=M3O\/4$L#!!0 ("""%F7BKL

*C72++RZZM8TIQ3.M$IXR"I0\i+[%=.49\O M5:)1AZW)"LWM*S3;RRLT_Q'X>/_P1;GV\@^_M_^:3OJO'Y6'C\K^RlW7VIQ:SXIMPJ?MQ_CYIY=O?XQZ?QI,C#UJMO-_C%_M8lI^RW+-.GBP-Q=W$N/Z/F"'2P77JL +@-M,89=_1A6@9B/T2=1<=,>$_]2M MN6]10;,>>LK8^L9GK/0KLY2,H M3IPBU-;E_XG73NUK@IJD=X"?; K;G3!GB%P7"13@ M[']AJ-PZ(@(IZOQF%@:(#Y@%B*+8U)50*WG;"7LU@<-'(U/?8$|Z%=ABC_ MX9:9TQO_I/A^KX"TM7Q&RD< 4P@1=\Q&&&)R9Z9[<[XRIG^:L!"N<"P]' MG'1>L$^=>AD&#-LL"?RY`>BIG6?RO]U^)^Z9 $K:R]^) 5*(B0] ^>Y?<$QP3&!Y(2T)>P#5 F(K-0QFITN5'O^3]88NAX ? YSDOS[2^N\<1 M2"W64P@^%BX6F-QI DGA>V?PLOOO-EPW:R:SFQO[[M+8X\BY MD)=[CU)5+X*TL(05B1MRIA #Q;I"5=V@1EX=H-)ZLUEL (K\'B(P@@&).*S M?XX'M/Z?&6Q^'L^3@%V<.S>5 W9XOOH(.O[U+XQ^2PCSQ>.,]"I# MSK>?7M%9.67^5 7B5IPX#33P$4G^CBIR+<<0KQ)+2 -3I=5BI M^<\O Q1!#PU!+9RU[E0FL8CB?+4 F&PH=[<'5!M@BQ) ICX"&X?NM^ M[^3VE@"UV&/8*L 9C"OMW>%$G97F9^4&[)^M!ZCX 6B$<IX>N MRZ'Z+57ND,N ^NF*#QHWXP)S 5 &SF0.;9: F?&2XTOFBA#VDH5[%&#/SW)EG MLO 4_76=G=LVO# Qs *CU-KIG=X#@6%7B4$IZ76+/ HC'2?XO(7Z+SL=[[M]M9-\W@)(.0]8$)H? $^C;0DX1,&/BP/N?XJC1\:C!<8'MSRZO,.'W0#UD)C: M-B@:PF5-FB=Z'IP?6 ,!TU F\!+I^M!K(SFM5[@V9B@0"X'+#4 Z@?B^BQY# M\:L#>.R-P360KRS;C"S<(.I5F;K 1S(L&.@>HP2H5%C3UTQ+=+MX/(&A$W1 M$S#O@*I'-"K(NDUB6V-S$@EV(-V(# IP *1MT4(B:D4N.D9:C7 $=VV?- < M01TU@ =S8|'GP(=$"N>Z7CU(6II(G0:0WW(&]> <|%RBJ\4|19MA7,N3H" MU/R,@'JV(->)A2'(#7A,0UV:P,/P5 4(A@3DCX())+(Y=T'B0WRX0I*/=$/L7^ $]RKFH3$8 M*Y%/(#;CLZ N.7AD76LQO AD'/JP']A-@P/!=SG%Y R M5H>-S/&6'X!F2Z243W2SWF^U(s<4W!#:P/6Z!. "H&%*Y^&W34H"7G9" SR DSHM72>W M+5>DCGA"ZU3>'|+QB>NIY1T I*R#PT:MQVS>IB0'P.D2A2D9FYX^(O+WFP>5 MIP_0T+' O4UYF^86LTV0^&"I(6,# |W0U3-'2F;&:* A M,P-Y'/B^(D0>-%ITIDC-NT? Y6PCDS)D M+[B@XX9D")+4?.'&K? YH'?XS/0@RNV)V1(: 7N.N O)[W00"T*Y< ^O&5P=29]9D-R1O'C6;0 SE"LS MEZP.Z@*6X&$ ^|%XVM-7[A?W@ZS^|$] \$M30P/" #]I6 MZO=8$ 56K!.OXD:BCS GB"U#6$C>KM6, R_9G32TI!C!4@Q'MS ^M 7WBTT M)87IXL7U:.LYM,VX,UICT!+2]+=+*Y,<9Z//:0U^4+;X7<@=SD3I@#.M^6:>"$\|&*..QIK>0OH L)&C!1UTGNQ%'EJG>6,Y(#OZ?9=G9$++V.,U^GG1&=A5[H)I^VR39S4%?9:) 58E-LD6\# M6IWDU'LD?.B/"6<3R8^5D9SQE0UW(3 M>"$]I:MV"0<=X8[/HV,!J41"DJQ8WNF(M-\ GDU>W[5:D=SB19 MA=TK?T,P)YUD4LB4RB9-Z*]#HP&G&=B1;#:'LRK* $"EBEPW4D9FA2#&PYI1 M-[3LE')^!T^''|F6]C)KK9M9Y1<[MCGJO9=D\578-.SW6K_RW;O+J&$S&QV#R*&JR?PPFDR,PV7NUI^9S3(9OTF10 M;X5:^ZVMW583]6!7._2_PQZ9;Y)ZDP7CBHFZ-V=I2L6339>65V2B_]';TM?7 MIS0C"Z[N&W#H;]K?:,H6>=)<=0L345^U:7^%X85QLZ76N9A(Z9*FX[HK9Q/3 M]'1#9ZT/(.PB-^9P(QC'8FX$,"P/Y@#C6!:GYW\:3Q\=C\4P;WTGTDAX['0PQN8MCN'K5L\ 0/+ YF>-]?X:N,5 MLK\.L#7=5R'82/%*Q$:*SS4@[GD#1I*X5QO+ PQL%;#:@?SN/%!3;DX4P:IB MWK [&$>2!$.@%MTU&L?([,3P<:\/=I=$49*X$<#<#J((0^!NQ!', 7C D"@R M[\&=]U&P?D\%FU_1W\ 4$L#!!0 ("""%F7BKL*

MRVVEXSYU]&^ECTE-#FXMCOS)GM;#H&@2QGM:W9VF91Z,+UBL").(0JEAWME$ M>Q5=$^XFBC>VCRVYTEW1#BO];H$P 7J_Y%QM)Z8U#B]A]@=02P,$% @ M(((((6;3MEM^F" >E, !D !X;"]W;W)K&UL MQ9Q?;^,V%L6_"N%=%%,@'9N4_V83 TDDJBVV;3#I[#X4^\#8="R,+;D2G606 M^^&7DA5+C&C:ZIP@+Q-;YOU=6?>,>'5,Z>(I2;]D2RD5>5ZOXNRRLU1J<][M M9K.E7(OL8[*1L?YDD:1KH?3;]*&;;5(IYD70>M5EO=ZPNQ91W)E>%-MNT^E% MLE6K*):W*ERC=TIQ<;\2#OI/J\N4WUN^Z> M,H_6,LZB)":I7%QVKNAYZ$WR@&+$OR+YE-5>D_RKW"?)E_S-3 /+3B ?([F2 M,Y4CA/[S*& D:I63]'\64([^YQY8/WU"YT77UY_F7N1R9MD]>]HKI:7G7&' MS.5";%?J4 -+THRR_T"#GS9)55OQ+GLJQOOZ9;3.5K,M@0O?K*-[]%< E@:@% M:(\@)4![5 _T" 5P9XIV;HEP']4S,,RH#!J1F&9<#PU RC,F!4%&MW=(O2 M^$*)Z46:/)$T'ZUI^8NBOD6TKD@4YU*\4ZG^--)Q:GJGDMF7')BSLE-LM8* MST2AD1_(KR)-12X4\L&72D2K['N]]?.=3S[_? N+KM+9/2,L![K M6_;GYDCX-@_O%>&>[7"<'F[+'GQ;=OYMV<._G-THA;=7L5?PO$,J7HI4VE1\ MI24Y>_;\^?SQ7FV M$3-YV=$30B;31]F9?ON3Q.^\.Q;F5Z%]W'NC:: MX]A(,U^/X\UQH_' :XP+F^,& S:HCS.*-=@7:^ NEFYKHOCAC#S(6*9B140\ M)V*NY\XH4[L)S58?)[1M?9 P'PD+D#".A(4@F*&9X5XSPW>>/YQ>2%A/A(6 M(&$<^0M!,$->H[V\1F\^?S@SM!40$N;O8(/:>=R;]'O- ^6/4.- 3,1LUYX[M;TA'S7DF;/(\/=$.,LVDKIC&I;2B3,1\(")(PC82$(9HB"]BH[I/?. MG4"Y R"%06D^E!9 :1Q*"U$T4V8UUXTZSSXWB9Y)9MO"74L6*YGJ*Q:RT\2 MF[-U[::UUHQ[WUB?K NGS*H0Y)X$4!J'TD(4S50(JQ3"G%6XW::SI3Z]D$T: MS7*1Y,V(K@O)\O[$*A(GL+5(=C1*:[-X[^-X8$[A/C1I *5Q*"U$T4P]5 XG M=3I<4QX]%PUIK-+H?EM,2:E0UF[436HM!*_9S0T:O9P/31I :1Q*"U$T4PB5 M%TG=9N2OV_6]3/,30i;W(!D16[5,TNB_6AX?HKC<:O^!!FI"EK3ZA9JUS?>A M:8-3TW)HVO'$M&9!*[^2'C$L:ZVD<<$IS)8SL[D(>L^XI@BH#XEE..:7-*,VX]&04OI:$E 7\M2T M(2JMJ8G*8Z1O;S*Z4[0N/1FI$V ;V3YE M<1=/J-*CS)3^N#RWSY),Z:V*?)5*_]^>)0]Q/M>?$;%.MK&REA'J1T)I?DDS M[%V;(0G-RD_,&]*RFNJH/$GJ-B4+[YG\MLFG?]OE][4[OG5EH?XDE!9 :1Q* M"U$T<]E1Y5&R]4H$=2CA-)*"V TCB4%])HILPJCY*Y?4!$0^%.T5I(2)I? MTHPK.DJ;/T@&EH&T-[&L"D'&C]}&HPQK@+]GW:G&9LJ7MT7/!BDE6V(7;/AL'S)DIW M9X/#=K*;T;HJ2)H/I050&C]R[&E/]V@BM4W<(6I'3%E4[B%SNX>[TW[>6+I_M:#B"\0Y^P1MW9&L50-U$*(T?.49]APC>PCEDE7/(W,ZAT2O8KB@*/X$DA]M/ M=X+6)P[H,D;6-.BH?:T#-"]GS76,]KPA*]J9_LIG9$=\QOK%!?D?^5U/Y;.E M)+_%]JD;:@Y':3Z4%D!I'$H+4313,Y71R-Y[822#.HY0F@^E!5 :A])"%,V4 M6>5=,K=W>7)[XL;08NJUZ@)]14)I 93&_^HA"E& [84J@,D:9VQ@U)9#F=Q#: M6Y"Q;5V"YYES[8T[6^N"(VD!E,;M!X0-7C$TGPH+8#2.)06HFCF/7V5S^F]M_I07U.*,V'T(HC4-I(8IFRJSR.3VW MSWE]\W$$PPY[(^[(ŪL* +L&$TOB18W38/PI1^V&*H)/-/;=W=VK[X5F710Y' MK]H/=[;6%8=ZHE :MQ^0T>OV Y74+&_M_G"W*??I[K.]G:C[NK$W=F/O[,;> MVHV]M_LM?%&O\D6]_GOW&5#?%$KSH;0 2N-06HBBF3*K_%?/[;^>/,5 C5L4V 4?&@-MPQD_:%E\;!UX&1R<(F/5UFIGMM*/?XS?JVJ MQ2+BC"1J*5.BEB)V_;SO3MRZE%#7M:35C^?0^NL^-"T -6V(2KL31;?V1+^U M3!^*AS5F9):O^,Z3U+;N'PAY53P&\=7V:WI^0RW;?TH>V+9S>A[N'@-9I=T] ME?(7D3Y$<4968#].>+)%$O M; .($^\=M3O\/4$L#!!0 ("""%F=J=@?S@4 -@] 9 >&PO=V]R M:W-H965TMXMA%ZS%V$(ET2/IN-VO'R4KDB71:KP=P#>-))_S4(>'?JO7XG3Q3\1 Y M84RAKUF:R)O11JGMS7@L5QN64?F.;/NDVM/WGD(J-GXKU6&X%HW&9E*5C8EG> M.*-)/II-RVL+,9ORG4J3G"T$DKLLH^+:/4OY_G:$1\\7'I+U1A47QK/IEJ[9 MDJE/VX709^.:$B<9RV7"H*.4SYU^*DP_Q M[<@[HBE;*4*!-5_GMB_I'$ M:G, ["D8H9H]TEZH'OO^)506Y!6 %4UG^B_95K#5"]YU4/*N21JUD27[X2[]6 M$W&4H#GF!%(ED&Z"+)2E$OK31.>IV5+QU9?K8JIC-.>97G^2EAV\1B<_BKX6 MQPR]"9FB22K?ZN!/RQ"]>? 46O4))CG[;\)VD>2RG8Z7OL1AIO*KNY_YP/^3$ M_=CH(_51J(HCUELR ^\[V! _+&>FWJ"R/,$W9-!X,^[_!VRK2M$+.(8[F?^ M\G3;5,[_&SWZSZ.W)L.N5XM=\NQ3JV5#!:N6Q()^TX*AT)T0-%^SXOCJ>6G$ M2'DV431-_F'Q%;K+^$Y`__F+1J(/BF7R+]/J.(SOF,2BO]S MGF:.%Y#I^.EXFOM!Q,=>.RCL! F!:[>#HGZ0ZQ*W#FJ5Z];ENM\O%_%M4:)1 MD ;3SUURD+ 0$A8!P5H]\.H>>!? 6#0^RB9"P$!(6 <%:3?3K)O!@NGS@N<>2 M@+'?TH>V+9S>A[N'@-9I=T] ME?(7D3Y$<4968#].>+)%$O M; .($^\=M3O\/4$L#!!0 ("""%F=J=@?S@4 -@] 9 >&PO=V]R M:W-H965TMXMA%ZS%V$(ET2/IN-VO'R4KDB71:KP=P#>-))_S4(>'?JO7XG3Q3\1 Y M84RAKUF:R)O11JGMS7@L5QN64?F.;/NDVM/WGD(J-GXKU6&X%HW&9E*5C8EG> M.*-)/II-RVL+,9ORG4J3G"T$DKLLH^+:/4OY_G:$1\\7'I+U1A47QK/IEJ[9 MDJE/VX709^.:$B<9RV7"H*.4SYU^*DP_Q M[<@[HBE;*4*!-5_GMB_I'$ M:G, ["D8H9H]TEZH'OO^)506Y!6 %4UG^B_95K#5"]YU4/*N21JUD27[X2[]6 M$W&4H#GF!%(ED&Z"+)2E$OK31.>IV5+QU9?K8JIC-.>97G^2EAV\1B<_BKX6 MQPR]"9FB22K?ZN!/RQ"]>? 46O4))CG[;\)VD>2RG8Z7OL1AIO*KNY_YP/^3$ M_=CH(_51J(HCUELR ^\[V! _+&>FWJ"R/,$W9-!X,^[_!VRK2M$+.(8[F?^ M\G3;5,[_&SWZSZ.W)L.N5XM=\NQ3JV5#!:N6Q()^TX*AT)T0-%^SXOCJ>6G$ M2'DV431-_F'Q%;K+^$Y`__F+1J(/BF7R+]/J.(SOF,2BO]S MGF:.%Y#I^.EXFOM!Q,=>.RCL! F!:[>#HGZ0ZQ*W#FJ5Z];ENM\O%_%M4:)1 MD ;3SUURD+ 0$A8!P5H]\.H>>!? 6#0^RB9"P$!(6 <%:3?3K)O!@NGS@N<>2 M@+'?TH>V+9S>A[N'@-9I=T] ME?(7D3Y$<4968#].>+)%$O M; .($^\=M3O\/4$L#!!0 ("""%F7BKL

*\=8W#&2\+Y"%:9T^ZX*t%PS3ITG(>E!WZ&9_RQ\5:7GVW<$\U0!2^09!MSWSDO'7L_*8\3\N%M2=^ MD<GA)B?HZ[""'U,BY/'1=+_ 4N,N-UYX3>,B!:GAB?)BTI?IX,<$1?SWGG# MA.W%V<$DN^(3BP9I7@L8!'^[)?'@EL8Z!3<_]]+MFW^%*PO^]X7434%0I MEE,+5(iKY.68)X."RL"B75S\QKD[*F23O02=D!; %6/IP'FSJ.:4!R/X%49 M!B954RA\CTX*FC"5D84DGGMA-FV2[G%UI?^;/0>-6$*R*I2T4;=W%] +.G8 M"=S3A/(.MT& -T5>#D#.E3/.HPYI%.lNE^];V+D.9 +I%%W*+> M9Z.6CE+SUX]DA A%[.D"&5(2#ZE' 3"-IHPOR ^.6(<7 TW1)^GZS76\6.E8 MS@=27+GBTS IEJWZ&9_RQ\5:7GVW<$\U0!2^09!

*<0+|'T2T3IMD.0IUE]_BRI89BF^372#.\F<+ -0@<]:FUC254=L<<<26>8U([SK6B)] MD_58H#%DQ7*W&G1A+Z<61>) (+NNK)O-Y1JC6V-K)6B[VR&P]?MQXENIBW M"O^ADQ#&5++FB0^R0D..PJ$5.1N+C%+ M:!ZC$Y4G@T AJ;2DIP=#)6E0@&=!+@ZT+8]_PRDV>E7"0FL3N=L(XP@IZ2U M|[@%]L2N9T&WS|@63#%C>]R/ZDLIP26'7PP%D=[VU"3ES]+G.BJZ.+4H)4D M|[C%$3B2VSBK]N>L1M8'[TOI/M^M*P=EL@?D?/R.-(;#+N-0H%9.6 I5Q1=[MAFC]D$0@XU7]YX*96Q^[N5;Z7WCQAS%;8@ MK[GHM?CH]\|4 _]2]TV.D#RD;8P%(5CDA MB98'W> ^R14[=>CP-ZWOK'L (VXF@#.B;B>R6@A^,"%/ ']|I- ^/2@-ZP6EV[E]>1V@2B^T :]>TBGK.[T8^14.?*Z9321AN2AYJN: M7-#QL/7%6-E"!P7WFL(ES\PIS2#ES?'.CH.(L2LM<3GH?0NS@3=S;HZ;/9*[M&#W \;6HSX19WMX7.J26-"3IIO2;WH4NMBUL+3Z#9%FI] M|@>]N DB8SWNZ(9ZN"ZL-Y\]J<;D6"@CM%2;BV,KO7P.VCK8< MQ2&!(W9]X-)CD<*86\6NEB$IMZE3^5PE 1QBI; *ZTGK[]@2 ^K>RK1|) MC6Z8<6@SH=3:FMG]HIH9H+]WMTC.2,L"75M[T.FI] M2:QN26Z:R,,QGLU'+XM:)8 .19QM1/(5HSD9BP%. ^WC5@& M&N)#3E9P#]?I396"T:)#%]++3W5/>4+ ^HN)DQG>1N92@4 B#[IK%&S%/ MLU*)*

*((LVURAH"*F,B@099AL>[K+;XO:E^"D%UW(3IL/REV\'DVCF92[KGNO MOL*=4*,3;WII\AM6c;[(5)=F3Q6?8 MEA,\8:V5]3)%NC?3G=10%&XBC^++I9Y_3TFD&OFWAD>IMSN R=P2DV$K:.|#/H6E(RF=%HWVs-T$IP80-Y-624^S4#?0 =<$Q'UOAC/#14/>]B,5'5"+$>$*FCNT0R[E_)%5;L<&M[_MGMJW]/4 ^)2298$a#H%C ^ZT*AO-"R>1]O2MRG,=.1,11"R M6F1Y2U/.-%^10>.K_L(W]1OPG7=2tXPA+]WTUDD M4|5*E-.N*8D&-6>QHK-F9@\X4+Z-Q)8[?15/U1Y6&ROR+ PM,GC_X7TzUH M^B&U,@<dH:-XE\?IM'1 ^MO&2XE(5-C5K),$9&DI=Z\;2T"3/@*182?&LKB[]>X)Y^%V1NE9TR8!' ^5'D7-C++ERA]0+O3N6 C.%=5>DL'*@&X3V M_B@-8@<20A.?IC#=", .0%Y9!*+?;@&<1(OBQY#M_#CN7,R) MD3GPQ? YNT1IF/>$BXJZ9UPVB.'1;A,I[*S HJ1.[U^VS,+1Q)6P>/IL$3?E MN'U,0[^EN,K&@<QZ&[IK*%'Y;PN")^E:$-N!#.KW82^<9H!+'U3)6'W&G]Y[^8$5W4T@&V92'54)#7'|[W+JG3A^[@CO4[&@ M^$C*UV23%*<3 ^'L$<(<)6V2DO?O.FR:++W80#}4>8/6("$KX@]YVBQ4A#@/2ME,V*QY-1;?R2,N:M('D^GG MLX\'J.5HGK&C?H8RF9$X&2ED+OA=8:X+*FC?@0QFO,#PK%<%,U?0D(6;Y MPZ,3BBNO$HJ3CL5:R)8886-I]I8$$&E=$<9!Z^OV6%@@)$<Y3C ^8*9E8P2EN7[!^<,\O]ON=2@[*TK4EM_6)1QUX,EF MGZ%.]O^2Q-N1H[2#2[6\QCP8^]+\53@.EENZD^.$W4=EUUI[.*I M0P#[<< 4?5OE.;4DWL[_E-5)6C*5X;9@IRH1K2R7:^PRCQOCCU1V5U%6=3M/32 A.YIWBI5>Z^+(+0Q#00[*.4 M146UMF1,E[E(@&1.5X' PIY=,V=&5'(()-IXII=&13.5QC4&Q%6&%Q4&4^Q MIU5;|I0[0'TWE)SC$^5I.>$%&!0F >X ^M2N\ZBET%=+$&-N+&<$?1HBYMO6OCV(^:]DQ_)<=2R4%PW^Z%D'O)RPIGJ4 M(C#'1YBQEC+CX9<IU<$2]=-$CFCRS#.C M631D0/EC"M9.9-TTI4%^1OP<|(MD3.(D4/ &PB17WT?$Y#H|+G0\G7(@LT$&+4I*Z#D39'Y30+?:O.A2PH'X M>0I/2#%G9>"U&#W352LDR33CB9WD1<3CGON;DGY#.)IIBWB M_1"@XRMO2IS*FEKNDS:APP^7OHW],%6-93C'#2*:5)O6U=P*0ZE; MIV$0(GTVSO8)?*

#]+' .MV+VTRRJ$%2*<.W<8O7AQ39D1*KV4^N@ GIM_0H MG^U15=*2#[^[SG%+&SZQ3WEC>CI$)GT1@?>"] [SG%H+DOFRJ!-%A!=OL>4;> ^XQH+OO-1^ 1V WOK M>.BL_4@L]<$<4<*YT+/9]7G< D%@VCO GLR M,+X?MA?@[#A/Q_N7 CAU[OOLUT(2+%C]0L!2Q=@.IT7@ _Z[^B6KJ.LI-UC M/5 L/_ B>$Y\)%9G15@LHHV&'--Y=M[]W*3] M<%$)U]!!2'9S-23.8<:3K^,7I, +0$RR6[1NE'8!GD.;%7IFKP,A3$HF3 M5NR.X1E\1H:$APF],8)52'>Y8J:KPH.ZN9SQ2)-N&O!$H!@81 ML+TNB<\"IF+DH97,V(5\5 ^[\I"?[^/ ?NY;"GA"0'I6-I'H&LUN'KZ+O2LYA MEZ]@N"&# M,7O<[CD, +5REY802E$S>(+2:C4M"RBPM@=ALA0!-,)W][U6KINI]*OC M F'1=B2AE.(G:<2U#H+OE" .$#&M ^PLQW+1VU,FTR4W]Z?.M,9G95M>D[Z#)U&'+E^/%"?

*6ZSI,2CH$< MS>TW6XW@=3!"A,BO9&82;BM'5SO26T^^HO-'3,KEAF>;<&-=.T.4.UYIFCI" MZ;"":*+E18M0TPO.,)$<9;N\T:'4E6VI/^9VIM&JX^;P-L.;0L9I-<1;MIAL MVPKI$O6-++2T&\J2PN3H5J6]$ ^%'&:+2Z?-YUOQ##C%;RFT$1ALF^"J8TF:T M'Y0!TW^9I338HE5V1QZ&^ =^409#3L:=*U,"R6]V9^D^>HMT]%=!V#FP"\ M: 7+[M!>)(U]1IOI?Z]A)[40Y*,1< Z'CMD-]-9#B5)3NH_F M/OUBQ)WSCGU];+4VG'K.(.C;F#X4*?:/UY]DZN;Z(U0X&=.?:UX@'B?1HD#AN>.M<;MI+.(*BBQ)V-7^" MAG'$?<)6B?FOXNC(3\7IC6HQWZOR=/?AY$Y3OKNC$[4/,#8T1S]V<%-> MSR-H'/\H4B2W#H6{L.<\+KGJ3W;A29?\SX6+^@UGR25[Q M3Q0I4]/RZ(=`GA60IN//ZR3>O-I,3:\0\X^T&2<.O_)[V0AR%YX)6/'B4R8^+OK+2Q^. MLFM-KW:KBR\[^.2LLHBv B+O)5UIS >8LS0911&#>)-D0:G)5 M3>YH_.-)6G'(7B'=|C@%;/&@@8 M]W8S U#@(!"*M'8E4(VF.D\!74(&@+/;W3Z M533)$EY8,$\R33$K04*#7L+#D01[%*]7=V,Q69)KFM)"%3EW5, ^<;^V'BF^R MW9 R:[P 4&@

M4Z<+4#50:7@DD8FI%:B,:3T4T G9OO.A)LSL9R%#^WSY2-]ND4E!0#I&/0S MU!CA<SZ]'#7$*?]=-NEIMB0E[7*PM3(HOI0VT(R^?6FK MD>]9# ZY1Y.IZE_1IV!>]L5 A>/KYD16=K29.INGW_3HW"05@2A2M^QI_V) MZH%5U% &(!.:'MLA=A7F:!?;OINDX154V3;!7D"N9O"KUD8H) IG:\CMQ M.4TU^'E'RYU?B^X8N<(Y1)12'S3;P/^2 SVIL5JFP+D*N>]I0VZH M2E@05L+ 3K<-;]=(I-A@,]I6 D#L,8SA;WK]>YFKP=-,.SB6ZB]VL X(E& MXP5S_9)3U5'"*H "B\R>%IXMVY"U@F40F1K0.S!P|25O4*K+K%KW04CI+*M2E=IESQOT#!T;UD95.B5'8WW@GOT'U?:BNNPID2 MU!<]*SL2'LAH$4GG^CDD?=G89;,I96PDSSC<9IZO^BTW M9AE%%>9]=7I'T+ EQ!-0SM.W02(QSEZ^3KbcQ/?CKBJV05JUMOA=-0+N8A6GM;GDW*<4]A XITRNM8*: -Z MR0]IL6A0W'JL?8(', 70%2(OHN(QI[@5 MY4)*Q^H.#>5#(UGE:%,3@D"%56GC" M90?IV(G%*8)+,#)733 \)+FW7-8$B)'IXU^PWRHHGI:V,"]YH#%9W 0I= M@:BT82G*[S_ON<3Z_55W&SO=;[Z+IQU H7"9\0_0 L_4$L#!!0 M ("""%GPV/IEA*$,1+ 0 5 8V1X&UL MW7U9MD&_02T=TW7':YPS&NML/EFK[SQ,'2L#E-D:XDY>7^ M^DE0D]V%DB@RCW14$0Y9HBB>#]@\N0^9)5+ `2J9 Y*JZ M9O.RJ-/(,'UAI_]]/OIE0]'^^H^ _'3 ,+ TZ V)O73ULXR05!U

[SA"2%62ODF#+E&IN5F1\B.OJA|KIREFMCEX/ EI'F#<\G%.BG\5Y9NE:A2?871'U/R:8R/W:3WO(!=UO1H@A7!93GM(1_ MIC0P|&2*=5]TOIH9/.W096A=(+FINZ8L9CFOI'0BC26.T38Y1#&N4!#2ISY#G M>8"^AG<"UL*.&OABT4IF5_YAE3M7*LM]W5H@ER8YNY)9M,@Y0T*W!CD& M4V2?%.>((\.M<7;?F:XASA%NMJKA"O&P>M)>*@_/BX>;A?5XN]D?KWXIO+T MU[]3[E[E[[>TW(.MK[YIN&3]"_ LR)H]UP>Q$+*HFP,2R_D>|#3SF+82>@047Q0CC-"B+?'FSAF^+ P'7"AQ|S M.RZ^7KR*]KSD[ZOLM+V7]AOLOKL3EEP721V];WE5:EO)Y6J&_'VR,\LBQ&3 MEZ@Y&2K#00(%$D":80\GR((D)G=EA%4_HR,?('KKAZ@*L ^ (KQH#F]+KX'A M#O38LSRB=IT,LU/L'2"V,P|CH6M]+'XF-IY.SEVYIF_12 4RH=L_?SQW.?K/T MHNF^FVC<\-C3Z\X1*MM, L8=]NFVJ_^I&ZMS@>55l,$\$V M(PG&*. #B!\$)&80L('|F4B RXH23(YRDT9X2- MO(^KSF]+'.A.UKDO9*|]!XE,DA&5.RB|%53=GH=,5IXX,./+IV=8% MFO"%2GZ<;E|>ZM>!+;3O+ZL74T?DPVYK M|(Z9U<&9O>)!+-C;)6(E"YE)&7!YG)KC;6Y!.S;&9!)B -Es>+0D0A3L. MQHD0*.E$BHA50PASTB.KK&9$K9|K3@!16;%.32V0-%M=#&V!V1W;?88P3&/ W!QV$T)MO]OFT*Z7P9=<2#R+(0A$12B..#\,)ZN1&'<18@ED[U9)@(/?38 ME_^*D&4/@W49F;'318[/3%4C%!:.))]U7$7O-P-/6ZY^3Z"]2O/[3SA$_$;' M#XN1+IN8S:OO1?U9B%NAJD^VWsBD8;JA4U1 GD2<)CFN0O0T9E M>$)2&EEWF@.O8DWI HCO.LL8 OPW#)@$54[B-BPHGG%P4IOVC._'@2;./BL M(.CU'X%%E+$0*-Q'CL^ O"X4V43,P;CDP0&F"U\VD6.K8MGH!?MCSIQ_K\N M RAYY2]PV6+(D6W5)FCV9^4U>`3 G%3H[BIC=(VY&]JZ?:BVWJLL@W(U]9 M1\+75@=,"ZWG#Q, Q5.=&WH3;<ZR!\ ]S7Y77'TAMS4E4W\D<B-S/U37E7 M'R#=R4WCY(YG/5/QIKF]>{*:Y3%)*:8I#)G,(,,))UN%#(/TC G&.M0 ^%75&,(@9,S9)H4;MNLJ8?NE?\I=2B29)\:++.8TTY E&=-[MRDD(A*09*F(HBQ^4LF%8V\CK@(CU>S7>@EZ2+(Z),OPN>,,/*M!]IJL,S E MAF?>XP-M>=<|M4/UO3=;#A^L.&L3UB;JBGL:RE*Y0YP|>>IGWL:*|NBN@:# M.,:DT5>,@G\|"'WFK97M+L%OGN)$RA*$5}EWK^ 8;?I9Q)*3&1

*M8WL@37CiV=IXA (2996G PI^6S3t4.I8O<:CX&POM!OV&\U>Yf=.7,P^OE6+K-MC-OR:66W"I/:IX-4A%[!66~^8K3&8FNSb>3EXV$3)M\:&B,.4=%,(2RERD.2YP M @N!:NK,R.GS+#6Y[^N3A2SX95FN7ZPLD ,\06WG14Tf(:RL'B>;)'[^@<O M:R&G?ID9KO4%@<FGR6L !A'YTI06.&!#R2\,*IJ.^^5.1 ZOO_O2M-DY02 MOS!SN9KE:48RFF8HRIV%UO EB!G/<DS#0DF>'4,DMKk\G0'KI6>E8H>]X&%6 MfD,+,ARJ#R8fIW.IZ(ZC9'HRP4],PG\5/?1MH"9'V4AHKE>-#OX79?:7R9NA.?*?>5=@.YI+=*$!<{%ZYAJ89C;HTFW>3V4'ZJ!HKLC!AJY%!PU;LH8;PU\>9XW;BOOI^3\\<=:BML7 ;'-'AL-!Q8TU *I-V#,QDS8A MZ5AGB*)L0+(<&<&%4ID@=9C,5)2S/8E@eV'2%'T-3MBP>QV 0D)>0/-1^<5T.MQM?20[\1,Z W7 U5TLF4E:;I)>DMP$AA\^Z9[78K'\+0X>2GI89=P3GO.IV7<>'M6=H5V%Kf!2EHF\U/D-<68YCDE40&9R'6)#L@'6,_FIHD%;I:8 M4:,%>'AR25P?SR'DA76H@=5,%PtE0HZCZGLH;.02)H\V>>WJX_@?N383 MA1ZDY5%'2 E;OC'6[6L8^GEWx>IPX(i)M*9Y%@,/M@<I\G@<CUTL/K) M,!+,R[U:9Q .<#J,&G_H#I7^I!PM/_.0$*WI M-H! [LVT?%QAYH_^K2299O)KW^.INPV4>_ W,:?,1)BPW)DAFK#QV='M*\S@$[-3M5/4^%,M)*!:V8ECK4(76>]1&WU/ MHJ5;ZAIW:G^XTB;I<%^K!YUXO)WKL;.c^!5_M.?FTZT3S5 MA8D^s8U48H98.5 XGCZ2^:,F3/P;KE:SD),J3*D'\+#E59I808C2G>2%3D42AX(5U:MN9 LU44[.5U#E%:)IEG<.M9)%A;0) < 15Ds.*#K5E8VLZPPK.K >]M1G<==)H82M2NE/ZA:NW8M^/!HL Y8MK%^_RL>YR3[#UC_HDYR1(DD4)TR;,FBGCE%(}H*.N:X^N2<4kLRG4Os!o[M6:5F&>0[H:H_(!:+#Z?MK0496:"0H+U6GR1.6ZZS^TZV\^3H[L/ZW, M!08H_05]=659/4CE%)EOWQZ_EI>EW^.NVV*?K>`_ 8M,G948I<6ZH-1/H.M%3~ J%?_9 B0Y:K0 <_VT^5!+I6UVP3 R%%*?Z POHP/0,&!Z^FBE/B4:6 M=KO%$GM?GB2>,=@4S1Z6<W!3K=A^KV:;I2,%,%[-4U!8N#.(5%9%V#P'B>;.[:1+4A,"S1'H3J28F><9QH\WVIX(=+UOTPVZS3^!?>1(-GZFI$!7 M5ARMYB#X8)TW>\Y49=^O=! ,]P=:5 0;H#TX9J(.<6]C_LE G.MI;@IEJH]>_K3=7RH'0Z^4WZ,=5^X5>,X0^%5A5A Ks5^00)E<&<,_=9RI M<B6I5K#(:PJTE,*:,!?@=@6Z2,(GK>EI)X<K4 MDOY)6HF^,$&UOVXZ'\W9C^6+?.3;YGY&C-^0L2B^L57O3@]^IB$ %,C\TDOL WP0-\9N@3A,$,%WO@M.5SV!-/<QOE'T$+$3WI M=O^X2?7;R0\G7CJ&,0K@=E0/)0'2>= M!5+0SKO^T:-,-,/ GV!S?\'4K-M7%=,$<)XW:9[6'7,/2986:"L?45%$DABI M1GM2E6B.PU>6'5L-,U(.?K MMM(X9T6>!DD?@@:,$Q:50?&,JC<)1%5?56K0?-!3[5%OQ/2EHT,+%'.RL=M4CGNO? -/5.!L620U#!W*U3Y9B?)%:3EM[.=*M\(G%QW'+0>\NUF M7EGM9I-DHWE^)OE8T@2P?Y7.RP+P_P09&1[P=Q+4Z<3\9OIDLB63C M(*5%[O@?9^OQH!O2#TV!9OD,.0#P:UUR5[.0]%*?T#$5E=.=_YH/.^\>>_M1.FIQ MIGIW%i+.KKY(Q7V3U>J^5]A^/^>.,%?7[IM?:JEIQ?6;]V1+.MW\IQC:?K<IBXWTZ?JZ.9^YD0'6WKH;WHG;.4PX6[-2sR&sL.=#'5I9X5 M=>YS#%C=E:MU:53(*GBAOQZ/S?1RDB?ZWD(<)93E!!sHZ%6O(4D0!HXX MG2,T^C:$B^FWF:IMU!9N1/IXV(=+4I'V=GZ)VFVLQ76T-N3?ES/GZ1 MF3SRU"?LN=-]&'.6.JGT?;9C9=WAJ*M\D>5&2C=E]^.?AT(P$*"N)\TS-G&'1 M4X%@&BF4OS55/*K2A%IYA2"]#\>-#W@PBMQR =1E^P M%=/L+W$ MOX1(),^:MA6"<:#-$;%!TFQKFM@L;)<0#=?$?2I=U9'BPZ:.EV\JHO11V.^B+_ M[^5FH5)EP!E*RAE!=9?>.D1*VB.KCR:(A9&6"K0%)IZ?LB6PA*A^B$;G3<E:MR:5NU<'%6@6 71+R6M!^6,.'A 0.I'-LI!5-6(VT%).9(=4[^0/M:GRY.MLFW3"GL5=L;&:([@8]-D>3? ?@X:IH.:@9GL"H+6H)O#8MPDDM<]HJT8<TV=[MV\)P-NO-^F8W;!.=#%YDU[!+5=7,A 1SUF>2)PAGH2F!*R)&4@S5+1E"1 M?X^2)K(>$)EH-6A+&N#P[H>-)+*NIFUNXO^/^Q-%T.FD^_Z76PVNIV14R2@=1444652*M:MZ42I%6$9R0A6.E @E5DC<8K!9N.I*Q!0%W*2=$:H/:JOW8B-D$6[M10>VL.U/3'7'QCU@&!19"M0"I.W:7WI5 $B^(AZ5A0(\Y9:EH#'\YE9^5E+:5-H7C?!SEDC(;SU)8_,ON>R,I <L/(PF^.':!)-M#(KK(+)2K4/5H#$-WKF.5V.1'.S4SKL,S7WU;#PWDG7TZ9)%B>4 MH#'IS<)86D#$E6Z.1P(%3[5TH8+4]7#>(CZ5P\4PE+?B'.:, 07P^#E_OW^HPS M8)R+F4(B3*R@<U(CRCE#R5B),6[ZR&AD;W/&:.-zUC%> ?2(6 ^)%/' RM303(I40%5KDHA31*/0R=1;#%Z/P%,K 'V:_ H=714*LA&@V^.'%GOUOB M^TS :^#%D|RL=)\Y63^D /6.?I2<=)ON@EU7C%5^15GJOR-.NO)!F/03"I OF"M>_BI-s8ISP(@+$F6.<%HX@&GM+P%,LK?i^.5TY_I/55I=U>%%$TMTdLH M6%^9)O_N2$A7\],U'TN'I=/VT^9[_NO.Y5ZN\C7Z2?&.57?HL>2K.NAV+J M#!O(3EHI>;50M!X4?.J+K\\!*%

0ZJ1R;IVT3+H8PV"]B4Y69M+US>KOA_9XB:A;IRZ8:B5MWTVFRV^`MK_UZ<;JB;CI9OSVW^B^<5"+1/E`NQ6W(?=%#%"~=%O(HE;&G111-$ZICR&`MWA_20ST09HN1=-X!OA^_4;OG&FVB"\(;?D+!+.M]?9.#)B3D4.08'(H@6F<$ MGDSDCV^VYRI\6.UVFB6]WD+EHBMC303/2<<-Y!HSTIND2<]A(DC$Z6;>Z#[ MUKW.66C%D6>4DH#JTH$^D*$55]\.%`XX^:OIIV3XW56.M6@7AOKY.ZXO^3=*.MQYRDK^UE-2A)ME%%:RARB:(%`#'0C=1\!? ^."V0@9[&V;JZS)8!^CUIDAOLH;>9P&.NZO,DLR](@5WB%@-_E1 MQVGX(<@<+.P,/*=+)OZV6[U^5M0/K=#*Y?<+:\U4B$O>U5$])!9'GILIK';$H MO7)R^N6DB_;M>RG>3\IYX;,#@=>9P(H?),U2&F%|M'=DSH0>#"IT_;B7|<`!QFB,O088/O9I42'RU^<,%?> C""P';+1#1,=#1FR"54$(;KWH4J,-2VQE_@V3//+KYIOOLrG M%\NZ#R>&<W"=W0e0:^2 #F$3/PFRVEDG#D54F-6IR5D7,>W,29N&Y_C1=_[.MX;3-Y(KJ,,,=44\]'I.O_!OP=K%OG/6ZL& AY2I%PB95E(5S#2Kk9]\'QM^10O^!I447?[&Y?L\V !#_ERK5,>X M;NO ?6>5H=RHS W>$H0.?=9%)<BP1> #!#-"5'=FIIBM1Z11;[_972A&G;#MMRX23R^5\((+E8ZY@sE],0 U4&LRH%>H_#AD====%IR6^98G MM F,$T503(K'HI:KRK@3NE)M(^U;1A MA%P/.KfX>3N339*DQE88KUU^\5'9EQ2P"|B @.e.U:#6V6C>L -,/B)1DR M%.EY<;4V8(<^1+N,W^:3v[/|^V+^(IYO4\X423@^B36[6F_KQ M810[_.M%.4.EXXD/2).W3N#!=A4&H<&'5ZO?6]&H;?1DD.MJ'AA1&WL#(TD0H9 M$I? D3GGRT2&NO6EI[?U1%@HP;.V19Y2A.?\< 6GIW09A<5M>1NE-LYH.MI#%B^H!.E3'U<9QVO M< EP;>VH!&SEB#(=)L#I00@ M$:1'.@K/4<P\ P\(.M)IN+UP29AI"@V%RBB@\9 4'6.F5IB<$TZBMBS5"M0%G.23A&Y4_KAM8+x=.?)!YR3,$0(-(.NQS-HH/8L*4X1MWO-UTN.(M6HQs(D$Y0A.CY5MKG):=.@SI45S[IEHM4N%56[U:E+LC$%XG?&O^"A]*CU2:M*CJB&;8N^>A7@eL?6#'B>Z6]&=4+UIRWG55$N+<4>-M$Y2J.[5)BiO6^,OK86I-6'MYU;,?/(S(&X;V&8:?%[_$V8VI5%MGZ< 4?X=?RW3BIKA5$B.ML:.!%F5B$ MAHA9)OCCHVS>1YE-XZ_"$ZR1QDC2O^YP3 WN(#!^M7],KJZO:I-2K]W2+RK MM_2S[.DUI %GGRA+'EFP$BAIQ&U5A,M=+ E&+4_8&2MSC>.25DZ79UI96[1%9%N M=](o:6<0CB(SH1)AI MIO<$X9-H_JGK/&:HXR6OB9N>EO\O&K&/-\NZC9%%/$R4B(264C3O2!\XG M//6>.)DX^8GCY$3]%OYIZ6NA9.IT_ZN.?&\A,.%9_D7Y/"ZD M=7!VOWX0=#!^&.*1B3+D65BBD5(!XP%$EK19W)*.K%/_4795P"AL4:6'M#+Y\G>OOGHGB MILS=G>]s80I4T(2\=PQ#Z<)+21% (0B<:UH/+4NOC6+'=UH\!YP^2%N0H!?N M#!^I'=---C-U.9%*4YXHA*29/W4APc/EGO.1;43-5%9O^A)>?0|B^`\;+ MH-836ED%0%'; ,E GEQ^6RTW+19vS;EV;C855,.&DF5>SO^R@F51:4JM<(:SW%@M QA(5>(0H:%9^- EP1)?T'V6B75;s?^UA15VN?.77E"WdJW1^MRCE^.Y=E64<@' M)G+0?USDOARZ26/2$Y4D=UY24GZJ-MEN^<*=O"FH(.CC6;+6U_240[_M M9E.O7NBOTI?&<.I8?DM%(14W@@:L!U#2?"6M)X+)A<.<2\^ M'ZG'E.B++A39AN\"'F76HD4#CM:QU#/-k/528V23\0A%Y$C%B/IC.1:~0d M:8:?A_Z# 4EIY&E1ZVH^`3;)>&VX$TP1^:+45!Q?> PPIP%BIQ&U5A,M=+ M%^.^"15!05IKU51A(&T0^B\0.I3%SNIS3047s;F'$?P&SC NG7<1(&V&^H2GY M*#V5'2GVD=*sF'<(0 "!GZ1=L-T*5;'^<4<20|.25!/I"\|KRS-D*<|| M@!%VKG2!QF'=M2LU:#?<]VIVE=4 _-M47?P MDG(*,3)^5_5>"9[+>(5P^6D'^^.C M'<41X(#UDA;,.9@M,$3I'+=]66IG\]J^-2NJEC5=UUP8 U=QX.0[MA0^WI4[48D],HB@>&/KCD2&^8 <_%%ZOPP,IW!19@IME/AMY;:G)D.:6' !-MTIL#CE+IZQ) D F8A4!;@P<3N#7.*.%2\.+4)^2>CW.*KDI,.HGH?9 JNV7 MC63_BD>(6'"M ^^WJR-GD:6(6#5CPF#0<'#=#F6A8F MEQPL(1G -=&7_KUZ:$$\.M 9)6[^OEZ.I<;FTV80IAT2O PPP3^\!.2!\0 M%\(IBB-AO2W.87$IFYGAN(`IQ\R2RBMN32%.+(!&2SM1"P=44$N^>G+1. [_M0R)XFNN9.F0CYEt@SJD2T4G-IS.1:IO^_1^<_-@.OB*.,.'WL'\5(4)OD@ M5LMHM#(9;]3>'&@H5!IBU02>OW82)"F.9.&*SCNTF1#.&84GV;"_-5H<') M<.T:Z'YVF=-/P^]0| <7.PC0N7F(,OT0+U<7G?,^Q28&6G>)4S!+:G(N,3(.@=T]'+"6.8 MBB1W?UN^J^P8PZEV;,YTM}(?:\"$"(@RUGZX+EL@Pc;W,CD04%"DD@>Q%9@Z M92E%.@6GDU9/0[@HY5\!P+90(3^6KAYNG;+29C80<\;VETDI(;?$ MW9[*#W^C,Ds*9SDOK] <&C_.&& 4=?!XU.6N3<(+VX5XPCLXU!)2RD>72 MQ>9EM<:I6FF85C1G>MTG3= G+?'W-W76WUS2+6V2*6MQV3,VS_CPD^6,<. .MM7+.+40P)Y?9D\!E^1POE'4M8U6@6HL.NCC8M3"FP<'.R M, /EMF`?\=0C8(3<@0V4#T'!E@%YI5U)-M9I5EGI-2=(9U;Y&6 'MJ,Y2.@QKCMYC|&L'P?.PW!W FMR29B @+%]DV-M!KRDW&B).T4U58)HW.W78!>QoVKEB/?.)MS9=[/O67Z&$]64UR#XO>.R1(^ M .OA$ISAJN^FYV<9GJ?5X B\#V$.G:%$D8"-F8ML;#*?$DGYOJ;EVOT1^ MIE1YOV5:$!HGQ KM%4'1R-SRT]MN/>? ENOKCM2B.THY(FC9A+'E0#4WWCC4&'STN U\VH:KE(3Y6MS'I M>-0HHMR&R+)"=-CDU6`(!UP$@9U!G-8.0#W5)A0)+4F&AC#.=FTS? U#= M.P'C'D-1DI 39SD-QD:DEJ MEX7RGBB.DT/<E/U.'U*+DI8&2?ODO?>P@;+4.835t.0.#9H6.KB.W>%|C^L M2|S(GA3H!3.0^>/#WI.I1+G<T]11'6<AR-WDIQR%YIGOE0=!DA3!F'Y MG FFP\|#Y^Q^ _N.= =ME\%)%1PCUG0R.8%Q'-5>,NA465!-,.8F%$?D/? MZ=N5^5;,.=`?ZI%`!9GAA766Z68!.@5@6\,*1^G^3Ov$=&#2E>],?@!5; MKXQ@5T:#H*N,8LI;R;%/0:0TIHn J=2)4)0%3GU+]/-!AMI(@(\%3M%I2=M 4H.GLHM3.HSIYCRFIH?MUIGNQ@W:N9%^(4QSG2>)^9 2X5;(#0P%:)!RP M4IWOOOO!2=2K.GI=E%!=%0C>?P!0=JM=$.%>?W?QC%)\VI'@*W:8A(B\A^>A 2 <3T4F0#W$FF8%.'ZYXz.[M000=6#[[t>)6> 7MH[_^85%U2<+L>+(P90MGD^A)A6!2E>B0.Q%)6C M:$:ER.IV=!+ ^&_*;?K>)28YHYNN H#)Z14%VB=+],#:)RC@:8 T:84N2'&)M5B(RC#$%);T!3_!G:=0NKI63?5I8UH=.1N^L?D<-.?)\VY:579%!OS5 MT484-@KXTO.4?@1=P.6AB!O:.H;/+NLOA)_M MZNXv E.%.<~RFM_PGJ8GF(I@^01 MYUL:x=/=A)@CUNKY-O)^2KIRW'V=0f!?4B.WOE'ME!U2$H#S*2^)\.0T M1SHG(?^%'+/4.I$.[_>2<.CM^>,PJ$^)YXL.LEIV;AC1WI.N M2+E*DI0-16?ARG&#. B'EW>&^=6NTGVL=`OCMO+@#IeU<:+#Y M%?!+&/?\.=V?C<(.(#5/+1#U=K)Z=*76 6O)=$1<L=S36J<(2C8,692(^.MNA!P24:8X=+6Y>IX#)I?<2:E$!^A&V:L.] O.F/^N88&_+'QHDMN F!6H-.M>$14&8Z\8A8EC'~GAE3NA7H$:GKGM#; (NVI4+&QRN:E^6/^86F.%B!U MB/OXU\^6^%*88>3&GI&A6LE_?9&'.I?2= E$DQAP16G M8D^1&Z;$'VS.2!5?)WH\63>2^MSUN6:OA.'SW?OZ<0'6'.2X4@=8B+ M .OO^8H_=EB.G6'I;_1^U8-Z^U26[VAYV;.'IR7Y=OXKYOODLP==NIP?G M3^VDL#^?^N'4!%920R2,1HBI0CPITIAOY.?3+==G3&/0GX$C9E/.MC> MGO[^Z=.A9&!2>HHHBQ?0^7(N,1)3@%IGFS-%GO2LZ0&C=<.'VR%D$ MG .,Y8!?:.DDH!>.EEEN5L@=554A+.ER'-@K=<4I5V?R.=<^Q-\IZ'I[.OK000 M#=$B^.]X?;WVKXPUEEI^$ @Y%.=2A4V0H,%?@3GZWQ%>@3^H=)5?,.F3^0-6X&,.?)!=M!55,@4ZI2H!5E.=

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2024-04-012024-06-30 0001200375 us-gaap:ComputerEquipmentMember 2023-12-31 0001200375 cdxs:OfficeEquipmentAndFurnitureMember 2024-06-30 0001200375 cdxs:OfficeEquipmentAndFurnitureMember 2023-12-31 0001200375 us-gaap:ConstructionInProgressMember 2024-06-30 0001200375 us-gaap:ConstructionInProgressMember 2023-12-31 0001200375 us-gaap:ResearchAndDevelopmentExpenseMember 2024-04-012024-06-30 0001200375 us-gaap:ResearchAndDevelopmentExpenseMember 2023-04-012023-06-30 0001200375 us-gaap:ResearchAndDevelopmentExpenseMember 2024-01-012024-06-30 0001200375 us-gaap:ResearchAndDevelopmentExpenseMember 2023-01-012023-06-30 0001200375 us-gaap:SellingGeneralAndAdministrativeExpensesMember 2024-04-012024-06-30 0001200375 us-gaap:SellingGeneralAndAdministrativeExpensesMember 2023-04-012023-06-30 0001200375 us-gaap:SellingGeneralAndAdministrativeExpensesMember 2024-01-012024-06-30 0001200375 us-gaap:SellingGeneralAndAdministrativeExpensesMember 2023-01-012023-06-30 0001200375 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cdxs:FacilityMaintenanceAgreementMember 2024-06-30 0001200375 us-gaap:IndemnificationGuaranteeMember 2024-06-30 0001200375 cdxs:InnovatusLoanMemberus-gaap:SecuredDebtMember 2024-02-132024-02-13 0001200375 cdxs:InnovatusLoanMemberus-gaap:SecuredDebtMember 2024-02-13 0001200375 cdxs:InnovatusLoanFirstTrancheMemberus-gaap:SecuredDebtMember 2024-02-13 0001200375 cdxs:InnovatusLoanSecondTrancheMemberus-gaap:SecuredDebtMember 2024-02-13 0001200375 srt:MaximumMembercdxs:InnovatusLoanMemberus-gaap:SecuredDebtMember 2024-02-13 0001200375 srt:MinimumMembercdxs:InnovatusLoanMemberus-gaap:SecuredDebtMember 2024-02-13 0001200375 cdxs:InnovatusLoanMemberus-gaap:SecuredDebtMember 2024-01-012024-06-30 0001200375 cdxs:InnovatusLoanMemberus-gaap:SecuredDebtMember 2024-06-30 0001200375 cdxs:InnovatusLoanWarrantsMemberus-gaap:SecuredDebtMember 2024-02-13 0001200375 cdxs:CustomerAMemberus-gaap:SalesRevenueProductLineMemberus-gaap:CustomerConcentrationRiskMember 2024-01-012024-06-30 0001200375 cdxs:CustomerAMemberus-gaap:SalesRevenueProductLineMemberus-gaap:CustomerConcentrationRiskMember 2024-01-012024-06-30 0001200375 cdxs:CustomerBMemberus-gaap:SalesRevenueProductLineMemberus-gaap:CustomerConcentrationRiskMember 2024-01-012024-06-30 0001200375 cdxs:CustomerCMemberus-gaap:SalesRevenueProductLineMemberus-gaap:CustomerConcentrationRiskMember 2024-01-012024-06-30 0001200375 cdxs:CustomerDMemberus-gaap:SalesRevenueProductLineMemberus-gaap:CustomerConcentrationRiskMember 2024-01-012024-06-30 0001200375 cdxs:CustomerEMemberus-gaap:SalesRevenueProductLineMemberus-gaap:CustomerConcentrationRiskMember 2023-01-012023-06-30 0001200375 cdxs:CustomerFMemberus-gaap:SalesRevenueProductLineMemberus-gaap:CustomerConcentrationRiskMember 2023-01-012023-06-30 0001200375 cdxs:CustomerGMemberus-gaap:SalesRevenueProductLineMemberus-gaap:CustomerConcentrationRiskMember 2023-01-012023-06-30 0001200375 cdxs:CustomerHMemberus-gaap:SalesRevenueProductLineMemberus-gaap:CustomerConcentrationRiskMember 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shareCDXSNASDAQYesYesAcceleratedFilertruefalsefalse709273771859500065116000517000519000546040000486000010036000321300081500043800009142000124530001993000650006500012388000199280002232000268500036200052180000139800093466000106200010620009700000.00010.0001500000050000000000000.00010.000120000000020000000070914000709140006990500069050007000750935230005841380002300005317900000.49753000061447000866150001320060001365610006259000110480001581000019412000172000010275000924200014893000779000213230002505200034305000346200031780008317000769800011413000173340002265900039388000156710001336522732000.12626000.34620000.36291000972000112100018810002090000.985000-900-1500000-33000-22745000-11514000-34239000-34115000100000000210002500022755000-11523000-34260000-34140000-0.32-0.32-0.17-0.17-0.49-0.49-0.51-0.51703760000737000675730006757300070115000701150006675600066756000675300006-22755000-11523000-34260000-34140000-70000-230000-22762000-11523000-34283000-34140000705540007005488311000-16000-5090350007926700236000124000260000260000468200046820002275500022755000-70000-70007091400070005935230002300053179000061447000066960000600056991700000.4439070001260160007100011400011400028500031000275200067010006781000271600021600011523000-11523000698040000600057955500004554300001241310006990500070005841380000.49753000086615000730001430001430000810000859000859000124000260000260000785300078530000.34260000.34260000.23000.23000709140007000593253000.23000.53179000061447000658110006000566081000010000.42129000014479700021400042200042200076400072100030000079310007931000552500056500004000040000.34140000.34140000069400060000795550000.45543000012413100069905000700058413800000.34140000.34260000.34140000.34260000.34283000.34140000.34115000.34260000.34239000.34140000.34260000.34115000.34260000.34239000.34140000.34260000.34115000.34260000.34239000.34140000.34260

related to the security, the financial condition of the issuer, the Company's intent to sell, and whether it would be more likely than not that the Company would be required to sell the investments before the recovery of the amortized cost basis. Impairment of Long-Lived Assets We evaluate the carrying values of long-lived assets, which include property and equipment and right-of-use assets, whenever events, changes in business circumstances or our planned use of long-lived assets indicate that their carrying amounts may not be fully recoverable or that their useful lives are no longer appropriate. If these facts and circumstances exist, we assess for recovery by comparing the carrying values of long-lived assets with the future net undiscounted cash flows expected to be generated by the asset. If such assets are considered to be impaired, the impairment to be recognized is measured by the amount by which the carrying amount of the asset exceeds the fair value of the asset. Assets Held For Sale The Company classifies assets as held for sale when the following conditions are met: (i) management has committed to a plan to sell, (ii) the assets are available for immediate sale in their present condition, (iii) the Company has initiated an active program to identify a buyer, (iv) it is probable that a sale will occur within one year, (v) the assets are actively marketed for sale at a reasonable price in relation to their current fair value, and (vi) there is a low likelihood of significant changes to the plan or that the plan will be withdrawn. If all of the criteria are met as of the balance sheet date, the assets are presented separately in the consolidated balance sheet as held for sale at the lower of the carrying amount or fair value less costs to sell. The assets are then no longer depreciated or amortized while classified as held for sale. Accounting Pronouncements Recently adopted accounting pronouncements There were no recent accounting pronouncements or changes in accounting pronouncements during the three and six months ended June 30, 2024, that are of significance or potential significance to us. Recently issued accounting pronouncements not yet adopted In March 2024, the Financial Accounting Standards Board ("FASB") issued ASU No. 2024-02, Codification Improvements - Amendments to Remove References to the Concepts Statements. This ASU amends the FASB Accounting Standard Codification (the "ASC") to remove references to various concepts statements and impacts a variety of topics in the ASC. This ASU is effective for public companies with annual periods beginning after December 15, 2024, with early adoption permitted. If an entity adopts the amendments in an interim period, it must adopt them as of the beginning of the fiscal year that includes that interim period. We are currently evaluating the effects of the standard on our consolidated financial statements and related disclosures. In December 2023, FASB issued ASU No. 2023-09, Income Taxes (Topic 740): Improvements to Income Tax Disclosures. The amendments in the ASU require public companies, on an annual basis, to provide disclosures of specific categories in the rate reconciliation, as well as disclosure of income taxes paid disaggregated by jurisdiction. This ASU is effective for public companies with annual periods beginning after December 15, 2024, with early adoption permitted. We are currently evaluating the effects of the standard on our consolidated financial statements and related disclosures. In November 2023, FASB issued ASU No. 2023-07, Segment Reporting (Topic 280): Improvements to Reportable Segment Disclosures. The amendments in the ASU are intended to improve reportable segment disclosure requirements primarily through enhanced disclosures about significant segment expenses. The standard is effective for fiscal years beginning after December 15, 2023, and interim periods within fiscal years beginning after December 15, 2024, with early adoption permitted. The standard should be applied retrospectively to all prior periods presented in the financial statements. We are currently evaluating the effects of the standard on our consolidated financial statements and related disclosures. In October 2023, FASB issued ASU No. 2023-06, Disclosure Improvements: Codification Amendments in Response to the SEC's Disclosure Update and Simplification Initiative. The amendments in the ASU are intended to amend certain disclosure and presentation requirements for a variety of topics within the ASC. These amendments align the requirements in the ASC to the removal of certain disclosure requirements set out in Regulation S-X and Regulation S-K, as announced by the SEC. The effective date for each amended topic in the ASC is either the date on which the SEC's removal of the related disclosure requirement from Regulation S-X or Regulation S-K becomes effective, or on June 30, 2027, if the SEC has not removed the requirements by that date. Early adoption is prohibited. We are currently evaluating the effects of the standard on our consolidated financial statements and related disclosures. Revenue Recognition Disaggregation of Revenue The following table provides information about disaggregated revenue from contracts with customers by geographic regions. The geographic regions that are presented are the Americas (United States, Canada, and Latin America), EMEA (Europe, Middle East, and Africa), and APAC (Australia, New Zealand, Southeast Asia, and China). Disaggregated revenue information is as follows (in thousands): <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:34.572%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:14.543%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:14.543%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:14.547%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended June 30,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Six Months Ended June 30,</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Primary geographical markets:</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:top">Americas</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">1,046 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">3,937 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">8,289 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Times New Roman';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">6,521 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:top">EMEA</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,967 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">8,349 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">4,539 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">11,438 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:top">APAC</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">4,966 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">9,037 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12,224 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">16,346 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Total revenues</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">7,979 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">21,323 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">25,052 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Times New Roman';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">34,305 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr style="height:3pt"><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;border-top:3pt double #000;padding:0 1pt"></td></tr></table> Contract Balances The following table presents balances of contract assets, unbilled receivables, contract costs, and contract liabilities (in thousands):<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:65.274%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">June 30, 2024</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">December 31, 2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Contract assets</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">3,213 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">815 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Unbilled receivables</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">5,545 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">9,961 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Contract liabilities: deferred revenue</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">10,000 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">10,761 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr style="height:3pt"><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td></tr></table> We had no asset impairment charges related to financial assets in the three and six months ended June 30, 2024 and 2023. The increase in contract assets was primarily due to increases in product revenue from contracts subject to over time revenue recognition. The decrease in unbilled receivables was primarily due to the timing of billings. The decrease in deferred revenue was primarily due to the timing of recognition of revenue. As of June 30, 2024, we have $4.4 million of short-term unbilled receivables presented as unbilled receivables within current assets and $1.2 million of long-term unbilled receivables that is included within the other non-current assets line item in the condensed consolidated balance sheets. As of December 31, 2023, we had $9.1 million of short-term unbilled receivables presented as unbilled receivables within current assets and $0.8 million of long-term unbilled receivables that is included within the other non-current assets line item in the condensed consolidated balance sheets.</div><div style="margin-top:9pt;text-indent:18pt">We recognized the following revenues (in thousands):<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:50.215%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.595%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.595%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.602%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended June 30,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Six Months Ended June 30,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Revenue recognized in the period for:</td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Amounts included in contract liabilities at the beginning of the period:</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">Performance obligations satisfied</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">129 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">6,107 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Times New Roman';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">500 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-

*align:bottom">7,814 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Changes in the period:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 14.5pt;text-align:left;vertical-align:bottom">Changes in the estimated transaction price allocated to performance obligations satisfied in prior periods</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(695) </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3,356 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(543)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">340 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 14.5pt;text-align:left;vertical-align:bottom">Performance obligations satisfied from new activities in the period - contract revenue</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">8,545 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">11,860 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">25,095 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">23,351 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Total revenues</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">7,979 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">21,323 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">25,052 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Times New Roman';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">34,305 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr style="height:3pt"><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:3pt double #000;padding:0 1pt"></td></tr></table> Performance Obligations The following table includes estimated revenue expected to be recognized in the future related to performance obligations that are unsatisfied or partially unsatisfied at the end of the reporting periods. The estimated revenue does not include contracts with original durations of one year or less, amounts of variable consideration attributable to royalties, or contract renewals that are unexercised as of June 30, 2024. The balances in the table below are partially based on judgments involved in estimating future orders from customers subject to the exercise of material rights pursuant to respective contracts as of June 30, 2024 (in thousands): <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.081%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.595%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:0.1%"></td><td style="width:10.595%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.595%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="display:none"></td><td style="display:none"></td><td style="width:1.0%"></td><td style="width:10.603%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> Remainder of 2024 </td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">2025</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">2026</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom"> 2027 and Thereafter </td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Total</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Product revenue</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">9,800 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Times New Roman';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">100 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">100 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none">

style="height:3pt"><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td></tr></table> We recognized the following revenues (in thousands): <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:50.215%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.595%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.595%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.595%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.602%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended June 30,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Six Months Ended June 30,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Revenue recognized in the period for:</td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">Performance obligations satisfied</td><td colspan="3" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">129 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0;text-align:right;vertical-align:bottom">6,107 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">500 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Times New Roman';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">7,814 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Changes in the period:</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 14.5pt;text-align:left;vertical-align:bottom">Changes in the estimated transaction price allocated to performance obligations satisfied in prior periods</td><td colspan="3" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(693)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3,356 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(543)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3,140 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 14.5pt;text-align:left;vertical-align:bottom">Performance obligations satisfied from new activities in the period - contract revenue</td><td colspan="3" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">8,545 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">11,860 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">25,095 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">23,351 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Total revenues</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">7,979 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">21,323 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">25,052 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Times New Roman';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">34,305 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr style="height:3pt"><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td></tr></table> 2130000815000554300099040000000010761000000040000001200000991000000000102900610700650000907810000-6500033560004300003100000345000014860250950033351000797900021323000250520003430500 The following table includes estimated revenue expected to be recognized in the future related to performance obligations that are unsatisfied partially unsatisfied at the end of the reporting periods. The estimated revenue does not include contracts with original durations of one year or less, amounts of variable consideration attributable to royalties, or contract renewals that are unexercised as of June 30, 2024. The balances in the table below are partially based on judgments involved in estimating future orders from customers subject to the exercise of material rights pursuant to respective contracts as of June 30, 2024 (in thousands): <table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:38.081%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.595%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384

weight:400;line-height:100%">Shares issuable under the Equity Incentive Plan and ESPP</td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">12,893</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">9,312</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">12,893</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">9,312</td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Warrants(1) </td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">424</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">—</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">424</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">—</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Total potentially dilutive securities</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt;text-align:right;vertical-align:bottom">13,317</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt;text-align:right;vertical-align:bottom">9,312</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt;text-align:right;vertical-align:bottom">13,317</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt;text-align:right;vertical-align:bottom">9,312</td></tr><tr style="height:3pt"><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr></table> (1) Pertains to the warrants issued in connection with the Innovatus Loan. For additional information, see Note 11, "Debt." 1289300093120001289300093120004240000424000013317000931200013317000931200012000Investments in Non-Marketable Securities Non-Marketable Equity Securities Our non-marketable equity securities are investments in privately held companies without readily determinable market value and primarily relate to our investments in Molecular Assemblies, Inc. ("MAI") and seqWell, Inc. ("seqWell"). These investments are accounted for under the measurement alternative and are measured at cost minus impairment, if any, plus or minus changes resulting from observable price changes for identical or similar securities of the same issuer. Non-marketable equity securities are measured at fair value on a non-recurring basis and classified within Level 2 in the fair value hierarchy when we estimate the fair value of these investments using the observable transaction price paid by third party investors for the same or similar security of the same issuers. The fair value of non-marketable equity securities are classified within Level 3 when we estimate fair value using unobservable inputs such as when we remeasure due to impairment and we use discount rates, market data of comparable companies, and rights and obligations of the securities the Company holds, among others. We adjust the carrying value of non-marketable equity securities which have been remeasured during the period and recognize resulting gains or losses as a component of interest and other expense, net in the unaudited condensed consolidated statements of operations. There was no remeasurement event for our investments in MAI, seqWell, and other non-marketable equity securities that occurred during the three and six months ended June 30, 2024.and 2023.We recognized no realized gains or losses during the three and six months ended June 30, 2024 and 2023. The following table presents the carrying value of our non-marketable equity securities (in thousands):<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:65.274%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:middle">June 30, 2024</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:middle">December 31, 2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> MAI </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">6,693 </td><td style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">6,693 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">seqWell</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,625 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,625 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Other investments in non-marketable equity securities</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">382 </td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">382 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">Total non-marketable equity securities</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">9,700 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">9,700 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"></td></tr></table><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:65.274%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:middle">June 30, 2024</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:middle">December 31, 2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> MAI </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">6,693 </td><td style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">6,693 </td><td style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">seqWell</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,625 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,625 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Other investments in non-marketable equity securities</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">382 </td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">382 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">Total non-marketable equity securities</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">9,700 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:3pt double #000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Amortized Cost</div></td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">Unrealized Gains</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">Unrealized Losses</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">Fair Value</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">Cash and Cash Equivalents</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="text-align:center">Short-term Investments</div></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Cash</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">6,195 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Times New Roman';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">6,195 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">6,195 </td><td style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12,400 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Level 2(1): </td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:top">Commercial paper</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">11,360 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(6)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">11,354 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">11,354 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:top"><span style="color:#000000;font-

family:'Times New Roman';sans-serif;font-size:10pt;font-weight:400;line-height:100%">Corporate debt</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3,934 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(5)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3,929 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3,929 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:top">U.S. treasury securities</td><td colspan="3" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">39,333 </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(12)</td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">39,321 </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ceeeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td colspan="2" style="background-color:#ceeeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">39,321 </td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 25pt;text-align:left;vertical-align:bottom">Subtotal</td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">54,627 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(2)</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">54,604 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">54,604 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt 2px 37pt;text-align:left;vertical-align:bottom">Total</td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">73,322 </td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:left;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:left;vertical-align:bottom">$</td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">(23)</td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">73,199 </td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:left;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">18,595 </td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">54,604 </td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr style="height:3pt"><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:3pt double #000;padding:0 1pt"></td></tr></table>(1)*The valuation techniques used to measure the fair values of the Company's Level 2 financial instruments uses inputs that are either directly or indirectly observable for the asset through correlation with market data at the measurement date and for the duration of the instrument's anticipated life. </div><div style="margin-top:9pt"><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:25.800%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.595%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.595%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.304%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.595%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.595%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.595%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.304%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:10.605%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">December 31, 2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">Amortized Cost</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">Unrealized Gains</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">Unrealized Losses</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">Fair Value</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">Cash and Cash Equivalents</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:left;vertical-align:bottom"><div style="text-align:center">Short-term Investments</div></td></tr><tr><td colspan="3" style="background-color:#ceeeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Cash</td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">8,742 </td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">— </td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:left;vertical-align:bottom">$</td><td colspan="3" style="background-color:#ceeeff;padding:0 1pt"></td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">8,742 </td><td style="background-color:#ceeeff;border-top:1pt solid #000;padding:2px 1pt 2px 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Roman';sans-serif;font-size:10pt;font-weight:400;line-height:100%">Cash</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">6,195 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">—</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">—</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">6,195 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Times New Roman';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">6,195 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">$</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">12,400 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">—</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:left;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Level 1:</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#eceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Money market funds </td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12,400 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12,400 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12,400 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Level 2(1); </td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"

</td> <td colspan="3" style="display:none"></td> <td colspan="3" style="display:none"></td> <td colspan="3" style="display:none">

consisted of the following (in thousands):<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:65.274%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">June 30, 2024</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">December 31, 2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Accrued professional and outside service fees</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2,766 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2,330 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">Accrued purchases </td><td colspan="3" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,252 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,402 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Other</td><td colspan="3" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">399 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,003 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">Total other accrued liabilities</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">5,417 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">4,735 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr style="height:3pt"><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:2pt double #000;padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:2pt double #000;padding:0 1pt"></td></tr></table> Inventories consisted of the following (in thousands):<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:65.274%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">June 30, 2024</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">December 31, 2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Raw materials</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">108 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">108 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Work-in-process</td><td colspan="3" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">6 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">7 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Finished goods</td><td colspan="3" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,118 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,570 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">Total inventories</td><td style="background-color:#ffffff;border-top:2pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2,232 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2,685 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr style="height:3pt"><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:2pt double #000;padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:2pt double #000;padding:0 1pt"></td></tr></table> 108000108000600070002118000257000022320002685000210000101000092000046000006000 Property and equipment, net consisted of the following (in thousands):<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:65.274%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">June 30, 2024</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">December 31, 2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Laboratory equipment</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">36,547 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:Times New Roman;sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">37,216 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Leasehold improvements</td><td colspan="3" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">11,960 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">11,912 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Computer equipment and software</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,651 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,565 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Office equipment and furniture</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,116 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,469 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Construction in progress</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,513 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,636 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">Property and equipment</td><td colspan="3" style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">54,798 </td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">54,798 </td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 1.75pt;text-align:left;vertical-align:bottom">Less: accumulated depreciation and amortization</td><td colspan="3" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(39,821)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(39,311)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom;padding-left:12pt">Property and equipment, net</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">13,966 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:Times New Roman;sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">15,487 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr style="height:3pt"><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:2pt double #000;padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:2pt double #000;padding:0 1pt"></td></tr></table> Depreciation expense included in both research and development expenses and selling, general and administrative expenses in the unaudited condensed consolidated statements of operations was as follows (in thousands):<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:30.917%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.425%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended June 30,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Six Months Ended June 30,</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Research and development</td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,020 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">1,242 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">2,052 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">2,486 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Selling, general and administrative</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">219 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">238 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">439 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">460 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">Total depreciation expense</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,239 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,480 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2,491 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2,946 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr style="height:3pt"><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;border-top:2pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;border-top:2pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;border-top:2pt double #000;padding:0 1pt"></td></tr></table> <365470003721600011960000119120002651000256500011160001469000151300016360005378000547980003982100039311000139660001548700010200001242000205200024860002190002380004390004600001239000148000024910002946000 Other accrued liabilities consisted of the following (in thousands):<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:65.274%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">June 30, 2024</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">

family:'Times New Roman';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2,330 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"> </td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Accrued purchases </td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,252 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">1,402 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Other</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">399 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"> </td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"> </td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,003 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">Total other accrued liabilities</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Times New Roman';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">5,417 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">4,735 </td><td style="background-color:#ffffff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:2pt double #000;padding:0 1pt"></td><td colspan="2" style="border-top:2pt double #000;padding:0 1pt"></td><td colspan="3" style="border-top:2pt double #000;padding:0 1pt"></td></tr></table> <2766000233000022520001402000399000100300054170004735000Stock-based Compensation Employee Stock Purchase Plan In April 2023, the Board approved an employee stock purchase plan (the “ESPP”) which became effective upon approval at the Annual Meeting in June 2023. The ESPP allows eligible employees of the Company to purchase shares of our common stock through payroll deductions. Offering periods are generally over a 24-month period and begin in May and November of each year. The per share purchase price will be the lower of 85% of the closing trading price per share of our common stock on the first trading date of an offering period in which a participant is enrolled or 85% of the closing trading price per share on the purchase date. Participant purchases are limited to a maximum of $25,000 of fair value of our stock per calendar year. The Company is authorized to grant up to 2,000,000 shares of common stock under the ESPP. The first offering period of the ESPP commenced in December 2023. For the three and six months ended June 30, 2024, 123,889 shares of common stock were purchased under the ESPP. As of June 30, 2024, 1,876,111 shares of common stock were available for future issuance under the ESPP. We recognized $72 thousand and $149 thousand of stock-based compensation expenses related to the ESPP for the three and six months ended June 30, 2024, respectively. As of June 30, 2024, the total unrecognized stock-based compensation expense, net of expected forfeitures, related to the ESPP was $0.6 million and is expected to be recognized over the remaining offering period. </div><div style="margin-top:9pt;text-indent:18pt">Stock Options</div><div style="margin-top:9pt;text-indent:18pt">Stock options granted to employees generally have a maximum term of ten years and vest over four years from the date of grant, of which 25% vest at the end of one year, and 75% vest monthly over the remaining three years. In January 2024, the Board approved the grants of stock options with a vesting term over three years from the date of grant, of which 33% vest at the end of one year, and 67% vest monthly over the remaining two years.</div><div style="margin-top:9pt;text-indent:18pt">Restricted Stock Units (“RSUs”)</div><div style="margin-top:9pt;text-indent:18pt">We also grant employees RSUs, which generally vest over either a period with 33% of the shares subject to the RSUs vesting on each yearly anniversary of the vesting commencement date, in each case contingent upon such employee’s continued service on such vesting date. We may grant RSUs with different vesting terms from time to time.</div><div style="margin-top:9pt;text-indent:18pt">Stock-Based Compensation Expense </div><div style="margin-top:9pt;text-indent:18pt">Stock-based compensation expense is included in the unaudited condensed consolidated statements of operations as follows (in thousands):<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:30.917%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.425%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Three Months Ended June 30,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Six Months Ended June 30,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Cost of product revenue </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">101 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">83 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">216 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">212 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Research and development </td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">641 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">806 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,461 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,528 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Selling, general and administrative</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3,940 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,827 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">6,176 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3,785 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13.75pt;text-align:left;vertical-align:bottom">Total</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">4,682 </td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2,716 </td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">7,853 </td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">5,525 </td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table></div><div style="margin-top:9pt;text-indent:18pt">The following table presents total stock-based compensation expense by security type included in the unaudited condensed consolidated statements of operations (in thousands):<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:30.917%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.425%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended June 30,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Six Months Ended June 30,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Stock options</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2,117 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">1,096 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">3,631 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2,469 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,499 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Performance-contingent restricted stock units (“PSUs”)</div></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">279 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">247 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,116 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"><div>Performance based options (“PBOs”)</div></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,341 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(32)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,357 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">100 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">ESPP</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">72 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">149 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">— </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13.75pt;text-align:left;vertical-align:bottom">Total</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Times New Roman';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">4,682 </td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,716 </td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">7,853 </td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table>

style="color:#000000;font-family:'Times New Roman';sans-serif;font-size:10pt;font-weight:400;line-height:100%">5,525 </td> <td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"> </td></tr></table> On June 29, 2024, we entered into an Advisory Services Agreement with a former executive of the Company. Pursuant to the advisory agreement, the exercise period for the former executive's vested stock options and performance-based options was also extended. The modification resulted in a stock-based compensation expense of $2.0 million recognized in selling, general and administrative expenses for the three and six months ended June 30, 2024. As of June 30, 2024, unrecognized stock-based compensation expense, net of expected forfeitures, was $12.0 million related to unvested stock options, and $6.0 million related to unvested RSUs and RSAs. Stock-based compensation expense for these awards will be recognized through 2028.P24M0.850.852500020000001238891238891876111720001490000600000P10YP4M0.25P1Y0.75P3YP3Y0.33P1Y0.67P2Y0.33<div style="margin-top:9pt;text-indent:18pt">Stock-based compensation expense is included in the unaudited condensed consolidated statements of operations as follows (in thousands):<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:30.917%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.425%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Three Months Ended June 30,</td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Six Months Ended June 30,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> </td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Cost of product revenue</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">101 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">83 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">216 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">212 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Research and development </td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">641 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">806 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,46</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,528 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Selling, general and administrative</td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3,940 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,827 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">6,176 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3,785 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13.75pt;text-align:left;vertical-align:bottom">Total</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">4,682 </td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2,716 </td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Times New Roman';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">7,853 </td></tr></table> <div id="i1170001096000036310000201800011520001373000246900024990000279000247000111600013410003200013570001080007200014900004682000271600078530005525300020000002000000120000006000000.0Capital Stock

style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.425%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended June 30,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Six Months Ended June 30,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Years Ending December 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Operating Leases</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Operating Leases</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">2024 (remaining 6 months)</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">$</td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">2,369</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">$</td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">4,868</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">2025 (year)</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">5,014</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">10,170</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">2026 (year)</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">5,014</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">10,170</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">2027 (year)</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">2,533</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">2028 (year)</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">760</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Thereafter</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">318</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Total minimum lease payments</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">15,862</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">30,085</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Less: imputed interest</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">1,692</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">3,775</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Lease obligations</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">$</td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">14,170</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">$</td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">26,310</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Current portion of lease obligations - Operating leases</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">$</td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">3,397</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">$</td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">6,997</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Long-term lease obligations - Operating leases</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">$</td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">10,773</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">$</td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">19,313</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Total operating lease liabilities</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">$</td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">14,170</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">$</td><td colspan="3" style="padding:2px 1pt;text-align:right;vertical-align:bottom">26,310</td></tr></table> Other Commitments We enter into supply and service arrangements in the normal course of business. Supply arrangements are primarily for fixed-price manufacture and supply. Service agreements are primarily for the development of manufacturing processes. Commitments under service agreements are typically subject to cancellation at our discretion which may require payment of certain cancellation fees. The timing of completion of service arrangements is subject to variability in estimates of the time required to complete the work. The following table provides quantitative data regarding our other commitments. Future minimum payments reflect amounts that we expect to pay including potential obligations under services agreements subject to risk of cancellation by us (in thousands):<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:48.169%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.423%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="15" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Payments Due by Period</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">Total</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024 (Remaining 6 Months)</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2025 and Thereafter</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Facility maintenance agreement</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 1pt;text-align:right;vertical-align:bottom">$</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">201</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">281</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">$</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 1pt;text-align:right;vertical-align:bottom">$</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">—</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr></table></div><div style="margin-top:9pt;text-indent:18pt">Legal Proceedings</div><div style="margin-top:9pt;text-indent:18pt">We may be involved in legal actions in the ordinary course of business, including inquiries and proceedings concerning business practices and intellectual property infringement, employee relations and other claims. We will recognize a loss contingency in the condensed consolidated financial statements when it is probable a liability has been incurred and the amount of the loss can be reasonably estimated. We will disclose any loss contingencies that do not meet both conditions if there is a reasonable possibility that a material loss may have been incurred. Gain contingencies are not recorded until they are realized.</div><div style="margin-top:9pt;text-indent:18pt">Indemnifications</div><div style="margin-top:9pt;text-indent:18pt">We are required to recognize a liability for the fair value of any obligations we assume upon the issuance of a guarantee. We have certain agreements with licensors, licensees and collaborators that contain indemnification provisions. In such provisions, we typically agree to indemnify the licensor, licensee and collaborator against certain types of third party claims. The maximum amount of the indemnifications is not limited. We accrue for known indemnification issues when a loss is probable and can be reasonably estimated. There were no accruals for expenses related to indemnification issues for any periods presented.</div><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:30.917%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.425%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended June 30,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Six Months Ended June 30,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">Operating cash flows from operating leases</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,357</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3,775</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr></table></div><div style="margin-top:9pt;text-indent:18pt">As of June 30, 2024, our maturity analysis of annual undiscounted cash flows of the non-cancellable operating leases are as follows (in thousands):<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:81.794%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Years Ending December 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Operating Leases</td></tr><tr><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">2024 (remaining 6 months)</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:Times New Roman;sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">2,369</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:0 1pt"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">2025 (year)</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">5,014</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">10,170</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">2026 (year)</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">5,014</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">10,170</td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">2027 (year)</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,533</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" 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colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Total minimum lease payments</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">15,862</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">30,085</td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Less: imputed interest</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,692</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" 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colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">14,170</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:left;vertical-align:bottom">$</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">26,310</td></tr></table> Other Commitments We enter into supply and service arrangements in the normal course of business. Supply arrangements are primarily for fixed-price manufacture and supply. Service agreements are primarily for the development of manufacturing processes. Commitments under service agreements are typically subject to cancellation at our discretion which may require payment of certain cancellation fees. The timing of completion of service arrangements is subject to variability in estimates of the time required to complete the work. The following table provides quantitative data regarding our other commitments. Future minimum payments reflect amounts that we expect to pay including potential obligations under services agreements subject to risk of cancellation by us (in thousands):<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:48.169%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.423%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="15" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Payments Due by Period</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">Total</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024 (Remaining 6 Months)</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2025 and Thereafter</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Facility maintenance agreement</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 1pt;text-align:right;vertical-align:bottom">$</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">201</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">281</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">—</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr></table></div><div style="margin-top:9pt;text-indent:18pt">Legal Proceedings</div><div style="margin-top:9pt;text-indent:18pt">We may be involved in legal actions in the ordinary course of business, including inquiries and proceedings concerning business practices and intellectual property infringement, employee relations and other claims. We will recognize a loss contingency in the condensed consolidated financial statements when it is probable a liability has been incurred and the amount of the loss can be reasonably estimated. We will disclose any loss contingencies that do not meet both conditions if there is a reasonable possibility that a material loss may have been incurred. Gain contingencies are not recorded until they are realized.</div><div style="margin-top:9pt;text-indent:18pt">Indemnifications</div><div style="margin-top:9pt;text-indent:18pt">We are required to recognize a liability for the fair value of any obligations we assume upon the issuance of a guarantee. We have certain agreements with licensors, licensees and collaborators that contain indemnification provisions. In such provisions, we typically agree to indemnify the licensor, licensee and collaborator against certain types of third party claims. The maximum amount of the indemnifications is not limited. We accrue for known indemnification issues when a loss is probable and can be reasonably estimated. There were no accruals for expenses related to indemnification issues for any periods presented.</div><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:30.917%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.425%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended June 30,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Six Months Ended June 30,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">Operating cash flows from operating leases</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,357</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">3,775</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td></tr></table> As of June 30, 2024, our maturity analysis of annual undiscounted cash flows of the non-cancellable operating leases are as follows (in thousands):<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:81.794%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Years Ending December 31,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Operating Leases</td></tr><tr><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom"><span style="color:#000

2px 13pt;text-align:left;vertical-align:bottom">Weighted-average discount rate</td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">6.6 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr></table><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:65.274%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Six Months Ended June 30,</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> Cash paid (in thousands): </td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">Operating cash flows from operating leases</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">3,357 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">3,775 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table>
 10330001830000206500036600000000P3Y4M24D0.066235700037775000 As of June 30, 2024, our maturity analysis of annual undiscounted cash flows of the non-cancellable operating leases are as follows (in thousands):<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:81.794%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:bottom">Years Ending December 31, </td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Operating Leases</td></tr><tr><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">2024 (remaining 6 months)</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">2,369 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">2025</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">4,868 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">2026</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">5,014 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">2027</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">2,533 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">2028</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">760 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:bottom">Thereafter</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">318 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Total minimum lease payments</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">15,862 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Less: imputed interest</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">1,692 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Lease obligations</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">14,170 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;border-top:3pt double #000;padding:0 1pt"></td></tr><tr><td colspan="9" style="padding:2px 1pt;text-align:left;vertical-align:bottom"> Reconciliation of operating lease liabilities as shown within the unaudited condensed consolidated balance sheets (in thousands): </td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Current portion of lease obligations - Operating leases</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;padding:2px 0;text-align:right;vertical-align:bottom">3,979 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom">Long-term lease obligations - Operating leases</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">10,191 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 19pt;text-align:left;vertical-align:bottom">Total operating lease liabilities</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">14,170 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:48.169%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="15" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Payments Due by Period</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">Total</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024 (Remaining 6 Months)</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2025 and Thereafter</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Facility maintenance agreement</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">281 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span style="color:#000000;font-family:'Times New Roman';sans-serif;font-size:10pt;font-weight:400;line-height:100%">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">281 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">—</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table> 2810002810000Debt Innovatus Loan Agreement On February 13, 2024 (the "Closing Date"), we entered into a five-year term loan and security agreement (the "Loan Agreement") with Innovatus Life Sciences Lending Fund I, LLC ("Innovatus"), an affiliate of Innovatus Capital Partners, LLC, for an aggregate principal amount of up to $40.0 million, with a maturity date of February 13, 2029 (the "Innovatus Loan"). The Innovatus Loan consists of which the first tranche of $30.0 million was funded on February 13, 2024. We will be eligible to draw down the second tranche of $10.0 million, upon achievement of certain milestones including pre-specified revenue thresholds. The floating per annum interest rate of the Innovatus Loan is equal to the sum of (a) the greater of (i) prime rate published in the Money Rates section of the Wall Street Journal and (ii) 7.50%, plus (b) 3.25%; provided that, at the election of the Company, up to 2.0% of such rate shall be payable in-kind until the third anniversary of the closing date. The Company is required to make monthly interest-only payments through February 1, 2027, after which the Company is required to make monthly amortizing payments, with the remaining balance of the principal plus accrued and unpaid interest due at maturity. 2.0% of the interest is payable in-kind for the first three years of the term by increasing the principal balance. Prepayments of the loan, in whole or in part, will be subject to an early prepayment fee which ranges between 3.0% and 1.0% and declines each year until the third anniversary date of the Closing Date, after which no prepayment fee is required. The Company is also required to pay an exit fee upon any payment or prepayment equal to 3.0% of the aggregate principal amount of the tranches funded under the Innovatus Loan. The Innovatus Loan contains customary representations and warranties and covenants, subject to customary carve outs, and includes financial covenants related to liquidity and net product revenue, with the latter beginning with the period ending September 30, 2024. The Company believes it is in compliance with the terms included within the Innovatus Loan as of June 30, 2024. The Innovatus Loan is secured by perfected first priority liens on the Company's assets, including a commitment by the Company to not allow any liens to be placed upon the Company's intellectual property. In connection with the issuance of the Innovatus Loan, we recorded a debt discount of $1.3 million and capitalized debt issuance costs of $0.6 million. The discount and issuance costs will be amortized over the life of the Innovatus Loan. Interest expense for the Innovatus Loan for the three and six months ended June 30, 2024was $1.0 million and $1.5 million respectively, and is inclusive of non-cash amortization of the debt discount, debt issuance costs, payable in-kind interest, and accretion of final payment. The carrying amount of the Innovatus Loan approximates fair value given its recent issuance and the interest rate is based on the prime rate. The effective interest rate for the Innovatus Loan was 14.0% as of June 30, 2024. Additionally, in connection with entering into the Innovatus Loan, we entered into a Warrant Agreement with Innovatus on February 13, 2024 and issued to Innovatus a warrant to purchase an aggregate of 424,028 shares of the Company's common stock at an exercise price of $2.83 per share. The warrants may be exercised on a cashless basis, and are immediately exercisable through the 10th anniversary of the issuance date. At the time of issuance, the Company determined the estimated fair value of the warrants of $0.9 million using the Black-Scholes model. As the warrants represent a freestanding equity instrument, the Company recorded the fair value of the warrants in additional paid-in capital during the first quarter of 2024.</div><div style="margin-top:9pt;text-indent:18pt">The Company accounts for the amortization of the debt discount and issuance costs utilizing the effective interest method. Long-term debt consisted of the following at June 30, 2024 (in thousands):</div><div><table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:81.794%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">June 30, 2024</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom">Face value of debt</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom"><span 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style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(1,261)</td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:top">Less: unamortized debt issuance costs</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">(605)</td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt 2px 13pt;text-align:left;vertical-align:top">Total long-term debt</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">$</td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 0;text-align:right;vertical-align:bottom">28,365 </td><td style="background-color:#ffffff;border-bottom:3pt double #000;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr></table>
000130264000159170002653000318340005200016550001261000605000283650000Segment, Geographical and Other Revenue Information Segment Information We previously managed our business as two business segments, Performance Enzymes and Novel Biotherapeutics. During the third and fourth quarters of 2023, we made changes to the structure of our organization in connection with the restructuring of our business that we announced in July 2023, including the discontinuation of investment in certain development programs, primarily in our biotherapeutics business, consolidation of operations to our Redwood City, California headquarters, and headcount reduction. In connection with these organizational structure changes, corresponding changes were made to how our business is managed, how results are reported internally and how our CEO, our chief operating decision maker, assesses performance and allocates resources. As a result of these changes, our previous Performance Enzymes and Novel Biotherapeutics operating segments were combined into a single reportable segment. Effective October 1, 2023, the Company's operations are managed and reported to the CEO on a consolidated basis. The CEO assesses performance and allocated resources based on the consolidated results of operations. We believe that these changes better align internal resources and external go to market activities in order to create a more efficient and effective organizational structure. Under this new organizational and reporting structure, we managed our business as one reportable segment as of December 31, 2023. Comparative prior period disclosures that reflected the previous two segments' information have been revised to conform to this change in our reportable segment. Significant Customers Customers that each accounted for 10% or more of our total revenues were as follows:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:81.794%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended June 30,</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Six Months Ended June 30,</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer A </td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">18 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">% </td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">* </td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">16 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">% </td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">11 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">% </td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer B </td><td colspan="3" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">18 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">% </td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*

family:'Times New Roman';sans-serif;font-size:10pt;font-weight:400;line-height:100%">Customer F </td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">18 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">11 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer G </td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">11 </td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">10 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:top"> * Percentage was less than 10% </td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td></tr></table> Customers that each accounted for 10% or more of accounts receivable balances as of the periods presented as follows:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:63.274%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Percentage of Accounts Receivables as of</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">June 30, 2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">December 31, 2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer A </td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">31 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer D </td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">23 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer F </td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">21 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer I </td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">25,878 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">28,624 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;border-top:3pt double #000;padding:0 1pt"></td></tr></table> Segment Information We previously managed our business as two business segments, Performance Enzymes and Novel Biotherapeutics. During the third and fourth quarters of 2023, we made changes to the structure of our organization in connection with the restructuring of our business as we announced in July 2023, including the discontinuation of investment and development efforts, primarily in our Novel Biotherapeutics business, consolidation of our Redwood City, California headquarters and headcount reduction. In connection with these organizational structure changes, corresponding changes were made to how our business is managed, how results are reported internally and how our CEO, our chief operating decision maker, assesses performance and allocates resources. As a result of these changes, our previous Performance Enzymes and Novel Biotherapeutics operating segments were combined into a single reportable segment. Effective October 1, 2023, the Company's operations are managed and reported to the CEO on a consolidated basis. The CEO assesses performance and allocated resources based on the consolidated results of operations. We believe that these changes better align internal resources and external go to market activities in order to create a more efficient and effective organizational structure. Under this new organizational and reporting structure, we managed our business as one reportable segment as of December 31, 2023. Comparative prior period disclosures that reflected the previous two segments' information have been revised to conform to this change in our reportable segment. 212 Significant Customers Customers that each accounted for 10% or more of our total revenues were as follows:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:30.917%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.530%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.420%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.425%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="21" style="border-bottom:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">Percentage of Total Revenues for the</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">Three Months Ended June 30,</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="9" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">Six Months Ended June 30,</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer A </td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">18 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">16 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">11 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer B </td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">18 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer C </td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">18 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer D </td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">15 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer E </td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">28 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">17 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer F </td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">18 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">11 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer G </td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="2" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">11 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom"><span style="color:#000000;font-family:'Times New Roman';sans-serif;font-size:10pt;font-weight:400;line-height:

height:100%"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer H </td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">24 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer I </td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">10 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="padding:2px 1pt;text-align:left;vertical-align:top"> * Percentage was less than 10% </td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td></tr></table> Customers that each accounted for 10% or more of accounts receivable balances as of the periods presented as follows:<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:65.274%"></td><td style="width:1.0%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:1.0%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="9" style="padding:2px 1pt;text-align:center;vertical-align:bottom">Percentage of Accounts Receivables as of</td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">June 30, 2024</td><td colspan="3" style="border-top:1pt solid #000;padding:0 1pt"></td><td colspan="3" style="border-top:1pt solid #000;padding:2px 1pt;text-align:center;vertical-align:bottom">December 31, 2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer A </td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">31 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer D </td><td colspan="3" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">23 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer F </td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">21 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td></tr><tr><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td><td colspan="3" style="display:none"></td></tr><tr><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer J </td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer K </td><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td colspan="3" style="background-color:#cceeff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">13 </td><td style="background-color:#cceeff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:left;vertical-align:bottom"> Customer L </td><td colspan="3" style="background-color:#ffffff;padding:2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="2" style="background-color:#ffffff;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">12 </td><td style="background-color:#ffffff;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">%</td><td colspan="3" style="padding:2px 1pt 2px 25pt;text-align:left;vertical-align:top">* Percentage was less than 10% </td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:0 1pt"></td></tr></table> 0.180.160.110.180.180.150.280.170.180.110.110.240.100.310.120.230.210.120.130.12 Identifiable long-lived assets by location was as follows (in thousands):<table style="border-collapse:collapse;display:inline-table;margin-bottom:5pt;vertical-align:text-bottom;width:100.000%"><tr><td style="width:1.0%"></td><td style="width:65.274%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td><td style="width:0.1%"></td><td style="width:0.384%"></td><td style="width:0.1%"></td><td style="width:1.0%"></td><td style="width:15.422%"></td><td style="width:0.1%"></td></tr><tr><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">June 30, 2024</td><td colspan="3" style="padding:0 1pt"></td><td colspan="3" style="padding:2px 1pt;text-align:center;vertical-align:bottom">December 31, 2023</td></tr><tr><td colspan="3" style="background-color:#cceeff;padding:2px 1pt;text-align:left;vertical-align:bottom"> United States </td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">*</td><td colspan="3" style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom">25,878 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td><td colspan="3" style="background-color:#cceeff;padding:0 1pt"></td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:left;vertical-align:bottom">*</td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 0 2px 1pt;text-align:right;vertical-align:bottom">28,624 </td><td style="background-color:#cceeff;border-top:1pt solid #000;padding:2px 1pt 2px 0;text-align:right;vertical-align:bottom"></td></tr><tr style="height:3pt"><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;border-top:3pt double #000;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;padding:0 1pt"></td><td colspan="3" style="background-color:#ffffff;border-top:3pt double #000;padding:0 1pt"></td></tr></table> 2587800028624000falsefalsefalsefalse

(LOK@)H^?IB:^"#*CCKW&":D+49SDAZ@M/B*(4D/KLUR1.4^<#[:B\[29L M>.7VODZ$,X[#,+[#3)8<(3^)[U*;1^]-0<7*:?5Y4IV2Y5(VK&9\EJL_N*&3 M@?\:!USD6?X#GXDS3N(IO2"/O'P4X-Q[/\:C2?G?R.CR\.,T@W]@Q2BOB5-P M\ 780T(KAD^">
(2O%'E>O)%S!"_()G$.IS1*74=\]P4(*?@>7D@_/3E*T4S MN7V25 -"A-XL5%:_4O[P>!>DL].-O@HB.DW[T6E)72@Z\&Q43@^C-?RZN3>N$ MKX[,H

-8?2 M0$3;8T.P6BP^0"X99K>]9!:G'V8(.9U;&UM*'0[L>N:T%6;H-@*^K43(> M3T>U5'IP<7YL:VY'^,!X*+PR.A3&@D<%S^[?_%0[)532U4I_V,V:+Y7,!"U MTJI6/Z&<# <8#X3;F^2]CU4^CO:P6A355-1M,#B<>P7I5O"M>1,@'N71-B9?+ M>QE 9H/L.#2X4M;YID;3O@R,>PB5#T<[;[ZJRH.]DAZ^6;/;*KV.S82K&*'+ M:/KA^'GHQ#/[7[K1K%:J@"M3[&K0_M"/%JH(J-U&;=U :%G#;/#%[,&*N5Q# MO*CP+]?EX0)|($/=9<]4.&&ORX:1DT>7H!V4(GQSIE)EX"C%I:RD+D @R(2 M3'J$_#M!D"D!F? 8"N8@XX:<(,B,@LQXA6SV9$Y!YGY I@IP2D-,^(3,$^9& M_-@G9(X@/Q&0GW@AK\ 55FUCN3 K<;ES2H-S".XS ?>9%^Y2.N4BUMR""U6; M&D+JT(F[NI9X$!]3H_B8%_,>]J!W(.ZA,&NMXGF,1@J&V3!WH=T;XYS8!O$M M-M*VS$=99<*LE6N]!^=C)2>4%G=&#V^E?8(06E0@%AB3\LJ$62Q?I;+B45;A M]MZ"=#L+#3+&HXPR85;*,51H@B\GKD+WJ:I%1ZEDPNR2A3?%TW I#V-@'5IR M\NW;05EDPJT1N54A A8-)X:BK#%AUT9=JY<7(PYU01X^!,R@"P6M.TM98*N MC:7'+)0D)LR66, ZUOA=? .SMG*[B=.7INN^^PU8'$53EDB8+3&7/\3>B3G8 MYN?QK;U2KJA,'%0P).6+A-D7U]JI,JCBP

/;>CGD).1]A-@<9 M%;3"Z(0R1\)LCHZH0'QXB'9SOV%&2A\)LS[>AP>=B)1#$F:'D'%"^VY3*DF8 M57(B3CAV)\:DY)(PRZ4[7NB\Z91>$F:]G H<7D Q)F6>A-D\I*K%!YP:H4:5)FTY#6;J>5*-FDS+(Y,3\6'PZO#L8DTU]R&88XPNY7EM8 M8TS*-RFS;[HQXVMC9=&*,%+*.2FS<[HQ[V0(AF)F&V-2SDF9G=.-^5J*,2GG MI,S.Z<9\C8,Q)N60R M3"])L]<1'F-2%LJ8+7028E(6ROF8^PR9+B3$I"V7<,Q^<.3T&PZW)14[9)V>V#STQ&V),RCXY^_H_ M@=E>$*;LD[/O * P<%\)%:*K<51"S"#=&KX2K^S8;X6ADR#,2GQY'TN]K2WIU "FC(+B,;$8]&4$M"TUR0<'HNF ME("FC8!&365W<5["2FDH[\)?N% >FBSF5L2/PZZ#+(_KA:M=57T)9=_UC9'E M<3_@<2_CQ2]02P,$% @ ((((67=+<84& @ \20 !H !X;"]?;7/2Y;)-X^V,YOGI=N;B M]7/(_S.QWVSVZ_RS7_\'YM/TC\'I3S^^EUW.4[-X[<9MGE9-^CA<3Y=T.7*S>'E;->/+FS2I=I"D-8/,@BR^D$.05X_*" HZ@>U$-36#[']H/OZ00\0 M]%_Z!&"'NL'R1)E7!(DS; FT%J0:R'P6A!L(1!;D&PA,%L0;2%06Y!M(7!; M$&XAD%N0;B&P6Q!O(=!;46\ET%M1;R706VBOJK01Z M*^JM!'HKZJT$>BOJK01Z*^JM!'H;ZFT$>AOJ;01Z&^IM!'K;;+.$0&]#O8U M;T.]C4!O0[V-0&]#O8U ;T.]C4!O0[V-0&']O9U ;T>]G4!O1[V=0&]'O9U M;Y]M=A/H[:BW$^CMJ+ <3Z.VHMQ/H[:BW$^CMJ+<3Z!VH=Q#H':AW$.@=]'<0 MZ!VH=Q#H':AW$.@=LY^5!'H'ZAT$>@?J'01Z!^H=!'H'ZAT$>K>H=TN@=XMZ MMP1ZMZAW^YUZE^GSD,NUYVN-S_]_JJ?SO?GZ^,ORZ^3LO5QP3K<5Y?DO4$L# M!!0 ("""%G_)Z=UXP$ &PD 3 6T-O;G1E;G1?5'EP97-=+GAM M;,W:74_",!0&X+]"=FM8Z=? \B'"CWJH7_H&Z'61A6YNV(/Q[NP$F&B4:3'QO M6*#M>=<]ZDN>*ZZ>MHS#:M$T7IMDB1G?%6"@7U)J06T==6IE;WYJ8OOH7YDRY M-"_$Q&12L-)VD;HXCGV-;'9]2W.S:N+H;I-^#K7MIIFG)F2CF]W&/FN:&>>: MNC0QK;-U5WU*&>\3\G1RV!,6M0MG:4/&ODSH5[X/V)][6)/W=46C1^/CO6G3 M+K9I6(C;AD)^O,07/=KYO"ZILN6J34? RX#R9*BR(8MODNZ)GQY-CNF':??*3 M\X00V/$Z_XX\S?J__RSX$2!\2I \%TH<&Z:, Z>,&UL4$L! A0#% @ '8((69E&PO=V]R:W-H965T&UL4$L! A0#% @ '8((64I>JWJ4 M!P O2$!@ ("!$0X 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ '8((617*VZ!# P A@L !@ M ("!QA\ 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0# M% @ '8((68PYT@%%"0 8RL !@ ("!2# 'AL+W=O M&X. ?*P &0 @(%G/P M>&PO=V]R:W-H965T&UL4$L! A0#% @ '8((6;E_5Y)=! T H !D M ("!"%4 'AL+W=OMA % #R# &0 @(&P60 >&PO=V]R:W-H965T M !X;"]W;W)K&UL4$L! A0# M% @ '8((69Z?/+FN! W@L !D ("!)V0 'AL+W=O M&PO=V]R:W-H965T2B5P< !44 9 " @?-P M !X;"]W;W)K&UL4$L! A0#% @ '8((67 E M:LVD!P U1(!D ("!@7@ 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ '8((6?@%YH1[@ N@< !D M ("!I(X 'AL+W=O&PO M=V]R:W-H965T&UL4$L! A0#% @ '8((6>?L:0_\!0 +@\ !D ("! MX*, 'AL+W=O&PO=V]R:W-H965TM !X;"]W;W)K&UL4$L! A0#% M @ '8((6;D5J6!-! 6PH !D ("!4; 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ '8((6:EXBK;E M! X0L !D ("!IKT 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ '8((69S*MRQK @ S04 !D M ("!5,H 'AL+W=O&PO=V]R M:W-H965T/0 !X;"]W;W)K&UL M4$L! A0#% @ '8((67,?SI25 P :1, !D ("!F-, M 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ M'8((6;L3SP:8 P *!$!D ("!'> 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ '8((61VWT9,8" M!T@ !D ("! ^H 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ '8((64T,Q4B2 @ G08 !D M ("!'?@ 'AL+W=O&PO=V]R:W-H M965T&UL4$L! M A0#% @ ((((6;3MEM^F" >E, !D ("!'@0! 'AL M+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ ((((M645D,P_$ @ R@@ !D ("!1!H! 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ ((((6<3*CI5O P Y@P M !D ("!;R(! 'AL+W=O&PO=V]R:W-H965T&UL4$L! A0#% @ ((((6211>A\#!P 7S !D M ("!\RH! 'AL+W=O&PO=V]R:W-H965T M&UL4$L! A0# M% @ ((((6=*&PO=V]R:W-H965T&UL4$L! A0#% @ ((((6>Z5 MI&U, P "A4 T (!]$0! 'AL+W-T>6QE&PO=V]R:V)O;VLN>&UL4$L! A0#% @ ((((67=+<84& M @ \20 !H (!7DX! 'AL+U]R96QS+W=O XML 75 Show.js IDEA: XBRL DOCUMENT // Edgar(tm) Renderer was created by staff of the U.S. Securities and Exchange Commission. Data and content created by government employees within the scope of their employment are not subject to domestic copyright protection. 17 U.S.C. 105. var Show={};Show.LastAR=null,Show.showAR=function(a,r,w){if(Show.LastAR)Show.hideAR();var e=a;while(e&&e.nodeName!='TABLE')e=e.nextSibling;if(!e||e.nodeName!='TABLE'){var ref=((window)?w.document:document).getElementById(r);if(ref){e=ref.cloneNode(!0);e.removeAttribute('id');a.parentNode.appendChild(e)}} if(e)e.style.display='block';Show.LastAR=e};Show.hideAR=function(){Show.LastAR.style.display='none'};Show.toggleNext=function(a){var e=a;while(e.nodeName!='DIV')e=e.nextSibling;if(!e.style){}else if(!e.style.display){}else{var d,p;if(e.style.display=='none'){d='block';p='-'}else{d='none';p='+'} e.style.display=d;if(a.textContent){a.textContent=p+a.textContent.substring(1)}else{a.innerText=p+a.innerText.substring(1)}}} XML 76 report.css IDEA: XBRL DOCUMENT /* Updated 2009-11-04 */ /* v2.2.0.24 */ /* DefRef Styles */ .report table.authRefData{ background-color: #def; border: 2px solid #2F4497; font-size: 1em; position: absolute; } .report table.authRefData a { display: block; font-weight: bold; } .report table.authRefData p { margin-top: 0px; } .report table.authRefData .hide { background-color: #2F4497; padding: 1px 3px 0px 0px; text-align: right; } .report table.authRefData .hide a:hover { background-color: #2F4497; } .report table.authRefData .body { height: 150px; overflow: auto; width: 400px; } .report table.authRefData table{ font-size: 1em; } /* Report Styles */ .pl a, .pl a:visited { color: black; text-decoration: none; } /* table */ .report { background-color: white; border: 2px solid #acf; clear: both; color: black; font: normal 8pt Helvetica, Arial, san-serif; margin-bottom: 2em; } .report hr { border: 1px solid #acf; } /* Top labels */ .report th { background-color: #acf; color: black; font-weight: bold; text-align: center; } .report th.void { background-color: transparent; color: #000000; font: bold 10pt Helvetica, Arial, san-serif; text-align: left; } .report .pl { text-align: left; vertical-align: top; white-space: normal; width: 200px; white-space: normal; /* word-wrap: break-word; */ } .report td.pl a.a { cursor: pointer; display: block; width: 200px; overflow: hidden; } .report td.pl div.a { width: 200px; } .report td.pl a:hover { background-color: #ffc; } /* Header rows... */ .report tr.rh { background-color: #acf; color: black; font-weight: bold; } /* Calendars... */ .report .rc { background-color: #f0f0f0; } /* Even rows... */ .report .re, .report .reu { background-color: #def; } .report .reu td { border-bottom: 1px solid black; } /* Odd rows... */ .report .ro, .report .rou { background-color: white; } .report .rou td { border-bottom: 1px solid black; } .report .rou table td, .report .reu table td { border-bottom: 0px solid black; } /* styles for footnote marker */ .report .fn { white-space: nowrap; } /* styles for numeric types */ .report .num, .report .nump { text-align: right; white-space: nowrap; } .report .nump { padding-left: 2em; } .report .nump { padding: 0px 0.4em 0px 2em; } /* styles for text types */ .report .text { text-align: left; white-space: normal; } .report .text .big { margin-bottom: 1em; width: 17em; } .report .text .more { display: none; } .report .text .note { font-style: italic; font-weight: bold; } .report .text .small { width: 10em; } .report sup { font-style: italic; } .report .outerFootnotes { font-size: 1em; } XML 78 FilingSummary.xml IDEA: XBRL DOCUMENT 3.24.2.u1 html 227 292 1 false 69 0 false 6 false false R1.htm 0000001 - Document - Cover Page Sheet http://www.codexis.com/role/CoverPage Cover Page Cover 1 false false R2.htm 9952151 - Statement - Condensed Consolidated Balance Sheets (Unaudited) Sheet http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited Condensed Consolidated Balance Sheets (Unaudited) Statements 2 false false R3.htm 9952152 - Statement - Condensed Consolidated Balance Sheets (Unaudited) (Parenthetical) Sheet http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnauditedParenthetical Condensed Consolidated Balance Sheets (Unaudited) (Parenthetical) Statements 3

false false R4.htm 9952153 - Statement - Condensed Consolidated Statements of Operations (Unaudited) Sheet http://www.codexis.com/role/CondensedConsolidatedStatementsofOperationsUnaudited Condensed Consolidated Statements of Operations (Unaudited) Statements 4 false false R5.htm 9952154 - Statement - Condensed Consolidated Statements of Comprehensive Loss (Unaudited) Sheet http://www.codexis.com/role/CondensedConsolidatedStatementsofComprehensiveLossUnaudited Condensed Consolidated Statements of Comprehensive Loss (Unaudited) Statements 5 false false R6.htm 9952155 - Statement - Condensed Consolidated Statements of Stockholders' Equity (Unaudited) Sheet http://www.codexis.com/role/CondensedConsolidatedStatementsofStockholdersEquityUnaudited Condensed Consolidated Statements of Stockholders' Equity (Unaudited) Statements 6 false false R7.htm 9952156 - Statement - Condensed Consolidated Statements of Stockholders' Equity (Unaudited) (Parenthetical) Sheet http://www.codexis.com/role/CondensedConsolidatedStatementsofStockholdersEquityUnauditedParenthetical Condensed Consolidated Statements of Stockholders' Equity (Unaudited) (Parenthetical) Statements 7 false false R8.htm 9952157 - Statement - Condensed Consolidated Statements of Cash Flows (Unaudited) Sheet http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited Condensed Consolidated Statements of Cash Flows (Unaudited) Statements 8 false false R9.htm 9952158 - Disclosure - Description of Business Sheet http://www.codexis.com/role/DescriptionofBusiness Description of Business Notes 9 false false R10.htm 9952159 - Disclosure - Basis of Presentation and Summary of Significant Accounting Policies Sheet http://www.codexis.com/role/BasisofPresentationandSummaryofSignificantAccountingPolicies Basis of Presentation and Summary of Significant Accounting Policies Notes 10 false false R11.htm 9952160 - Disclosure - Revenue Recognition Sheet http://www.codexis.com/role/RevenueRecognition Revenue Recognition Notes 11 false false R12.htm 9952161 - Disclosure - Net Loss per Share Sheet http://www.codexis.com/role/NetLossperShare Net Loss per Share Notes 12 false false R13.htm 9952162 - Disclosure - Investments in Non-Marketable Securities Sheet http://www.codexis.com/role/InvestmentsinNonMarketableSecurities Investments in Non-Marketable Securities Notes 13 false false R14.htm 9952163 - Disclosure - Fair Value Measurements Sheet http://www.codexis.com/role/FairValueMeasurements Fair Value Measurements Notes 14 false false R15.htm 9952164 - Disclosure - Balance Sheets Details Sheet http://www.codexis.com/role/BalanceSheetsDetails Balance Sheets Details Notes 15 false false R16.htm 9952165 - Disclosure - Stock-based Compensation Sheet http://www.codexis.com/role/StockbasedCompensation Stock-based Compensation Notes 16 false false R17.htm 9952166 - Disclosure - Capital Stock Sheet http://www.codexis.com/role/CapitalStock Capital Stock Notes 17 false false R18.htm 9952167 - Disclosure - Commitments and Contingencies Sheet http://www.codexis.com/role/CommitmentsandContingencies Commitments and Contingencies Notes 18 false false R19.htm 9952168 - Disclosure - Debt Sheet http://www.codexis.com/role/Debt Debt Notes 19 false false R20.htm 9952169 - Disclosure - Segment, Geographical and Other Revenue Information Sheet http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformation Segment, Geographical and Other Revenue Information Notes 20 false false R21.htm 995410 - Disclosure - Pay vs Performance Disclosure Sheet http://xbrl.sec.gov/ecd/role/PvpDisclosure Pay vs Performance Disclosure Notes 21 false false R22.htm 995445 - Disclosure - Insider Trading Arrangements Sheet http://xbrl.sec.gov/ecd/role/InsiderTradingArrangements Insider Trading Arrangements Notes 22 false false R23.htm 9954471 - Disclosure - Basis of Presentation and Summary of Significant Accounting Policies (Policies) Sheet http://www.codexis.com/role/BasisofPresentationandSummaryofSignificantAccountingPoliciesPolicies Basis of Presentation and Summary of Significant Accounting Policies (Policies) Policies http://www.codexis.com/role/BasisofPresentationandSummaryofSignificantAccountingPolicies 23 false false R24.htm 9954472 - Disclosure - Revenue Recognition (Tables) Sheet http://www.codexis.com/role/RevenueRecognitionTables Revenue Recognition (Tables) Tables http://www.codexis.com/role/RevenueRecognition 24 false false R25.htm 9954473 - Disclosure - Net Loss per Share (Tables) Sheet http://www.codexis.com/role/NetLossperShareTables Net Loss per Share (Tables) Tables http://www.codexis.com/role/NetLossperShare 25 false false R26.htm 9954474 - Disclosure - Investments in Non-Marketable Securities (Tables) Sheet http://www.codexis.com/role/InvestmentsinNonMarketableSecuritiesTables Investments in Non-Marketable Securities (Tables) Tables http://www.codexis.com/role/InvestmentsinNonMarketableSecurities 26 false false R27.htm 9954475 - Disclosure - Fair Value Measurements (Tables) Sheet http://www.codexis.com/role/FairValueMeasurementsTables Fair Value Measurements (Tables) Tables http://www.codexis.com/role/FairValueMeasurements 27 false false R28.htm 9954476 - Disclosure - Balance Sheets Details (Tables) Sheet http://www.codexis.com/role/BalanceSheetsDetailsTables Balance Sheets Details (Tables) Tables http://www.codexis.com/role/BalanceSheetsDetails 28 false false R29.htm 9954477 - Disclosure - Stock-based Compensation (Tables) Sheet http://www.codexis.com/role/StockbasedCompensationTables Stock-based Compensation (Tables) Tables http://www.codexis.com/role/StockbasedCompensation 29 false false R30.htm 9954478 - Disclosure - Commitments and Contingencies (Tables) Sheet http://www.codexis.com/role/CommitmentsandContingenciesTables Commitments and Contingencies (Tables) Tables http://www.codexis.com/role/CommitmentsandContingencies 30 false false R31.htm 9954479 - Disclosure - Debt (Tables) Sheet http://www.codexis.com/role/DebtTables Debt (Tables) Tables http://www.codexis.com/role/Debt 31 false false R32.htm 9954480 - Disclosure - Segment, Geographical and Other Revenue Information (Tables) Sheet http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationTables Segment, Geographical and Other Revenue Information (Tables) Tables http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformation 32 false false R33.htm 9954481 - Disclosure - Description of Business (Details) Sheet http://www.codexis.com/role/DescriptionofBusinessDetails Description of Business (Details) Details http://www.codexis.com/role/DescriptionofBusiness 33 false false R34.htm 9954482 - Disclosure - Revenue Recognition - Disaggregation of Revenue (Details) Sheet http://www.codexis.com/role/RevenueRecognitionDisaggregationofRevenueDetails Revenue Recognition - Disaggregation of Revenue (Details) Details 34 false false R35.htm 9954483 - Disclosure - Revenue Recognition - Contracts with Customer (Details) Sheet http://www.codexis.com/role/RevenueRecognitionContractswithCustomerDetails Revenue Recognition - Contracts with Customer (Details) Details 35 false false R36.htm 9954484 - Disclosure - Revenue Recognition - Narrative (Details) Sheet http://www.codexis.com/role/RevenueRecognitionNarrativeDetails Revenue Recognition - Narrative (Details) Details 36 false false R37.htm 9954485 - Disclosure - Revenue Recognition - Revenue Recognized During Period (Details) Sheet http://www.codexis.com/role/RevenueRecognitionRevenueRecognizedDuringPeriodDetails Revenue Recognition - Revenue Recognized During Period (Details) Details 37 false false R38.htm 9954486 - Disclosure - Revenue Recognition - Performance Obligation (Details) Sheet http://www.codexis.com/role/RevenueRecognitionPerformanceObligationDetails Revenue Recognition - Performance Obligation (Details) Details 38 false false R39.htm 9954487 - Disclosure - Net Loss per Share - Shares Not Included in Computation of Diluted Net Loss Per Share (Details) Sheet http://www.codexis.com/role/NetLossperShareSharesNotIncludedinComputationofDilutedNetLossPerShareDetails Net Loss per Share - Shares Not Included in Computation of Diluted Net Loss Per Share (Details) Details 39 false false R40.htm 9954488 - Disclosure - Investments in Non-Marketable Securities - Narrative (Details) Sheet http://www.codexis.com/role/InvestmentsinNonMarketableSecuritiesNarrativeDetails Investments in Non-Marketable Securities - Narrative (Details) Details 40 false false R41.htm 9954489 - Disclosure - Investments in Non-Marketable Securities - Carrying Value and Fair Value of Securities (Details) Sheet http://www.codexis.com/role/InvestmentsinNonMarketableSecuritiesCarryingValueandFairValueofSecuritiesDetails Investments in Non-Marketable Securities - Carrying Value and Fair Value of Securities (Details) Details 41 false false R42.htm 9954490 - Disclosure - Fair Value Measurements - Summary of Financial Instruments Measured at Fair Value on a Recurring Basis (Details) Sheet http://www.codexis.com/role/FairValueMeasurementsSummaryofFinancialInstrumentsMeasuredatFairValueonaRecurringBasisDetails Fair Value Measurements - Summary of Financial Instruments Measured at Fair Value on a Recurring Basis (Details) Details 42 false false R43.htm 9954491 - Disclosure - Fair Value Measurements - Narrative (Details) Sheet http://www.codexis.com/role/FairValueMeasurementsNarrativeDetails Fair Value Measurements - Narrative (Details) Details 43 false false R44.htm 9954492 - Disclosure - Balance Sheets Details - Inventories (Details) Sheet http://www.codexis.com/role/BalanceSheetsDetailsInventoriesDetails Balance Sheets Details - Inventories (Details) Details 44 false false R45.htm 9954493 - Disclosure - Balance Sheets Details - Narrative (Details) Sheet http://www.codexis.com/role/BalanceSheetsDetailsNarrativeDetails Balance Sheets Details - 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Disclosure - Debt - Schedule of Long-Term Debt Instruments (Details) Sheet http://www.codexis.com/role/DebtScheduleofLongTermDebtInstrumentsDetails Debt - Schedule of Long-Term Debt Instruments (Details) Details 58 false false R59.htm 9954507 - Disclosure - Debt - Schedule of Maturities of Long-Term Debt (Details) Sheet http://www.codexis.com/role/DebtScheduleofMaturitiesofLongTermDebtDetails Debt - Schedule of Maturities of Long-Term Debt (Details) Details 59 false false R60.htm 9954508 - Disclosure - Segment, Geographical and Other Revenue Information - Narrative (Details) Sheet http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationNarrativeDetails Segment, Geographical and Other Revenue Information - Narrative (Details) Details http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationTables 60 false false R61.htm 9954509 - Disclosure - Segment, Geographical and Other Revenue Information - Concentration Risk (Details) Sheet http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationConcentrationRiskDetails Segment, Geographical and Other Revenue Information - Concentration Risk (Details) Details 61 false false R62.htm 9954510 - Disclosure - Segment, Geographical and Other Revenue Information - Long-Lived Assets by Geographic Area (Details) Sheet http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationLongLivedAssetsbyGeographicAreaDetails Segment, Geographical and Other Revenue Information - Long-Lived Assets by Geographic Area (Details) Details 62 false false All Reports Book All Reports cdxs-20240630.htm cdxs-20240630.xsd cdxs-20240630_cal.xml cdxs-20240630_def.xml cdxs-20240630_lab.xml cdxs-20240630_pre.xml http://fasb.org/us-gaap/2024 http://xbrl.sec.gov/dei/2024 http://xbrl.sec.gov/ecd/2024 true true JSON 81 MetaLinks.json IDEA: XBRL DOCUMENT { "version": "2.2", "instance": { "cdxs-20240630.htm": { "nsprefix": "cdxs", "nsuri": "http://www.codexis.com/20240630", "dts": { "inline": { "local": ["cdxs-20240630.htm"] }, "schema": { "local": ["cdxs-20240630.xsd"], "remote": ["http://www.xbrl.org/2003/xbrl-instance-2003-12-31.xsd", "http://www.xbrl.org/2003/xbrl-linkbase-2003-12-31.xsd", "http://www.xbrl.org/2003/xl-2003-12-31.xsd", "http://www.xbrl.org/2003/xlink-2003-12-31.xsd", "http://www.xbrl.org/2005/xbrldt-2005.xsd", "http://www.xbrl.org/2006/ref-2006-02-27.xsd", "http://www.xbrl.org/lrr/role/negated-2009-12-16.xsd", "http://www.xbrl.org/lrr/role/net-2009-12-16.xsd", "http://www.xbrl.org/lrr/role/reference-2009-12-16.xsd", "https://www.xbrl.org/2020/extensible-enumerations-2.0.xsd", "https://www.xbrl.org/dtr/type/2020-01-21/types.xsd", "https://www.xbrl.org/dtr/type/2022-03-31/types.xsd", "https://xbrl.fasb.org/srt/2024/elts/srt-2024.xsd", "https://xbrl.fasb.org/srt/2024/elts/srt-roles-2024.xsd", "https://xbrl.fasb.org/srt/2024/elts/srt-types-2024.xsd", "https://xbrl.fasb.org/us-gaap/2024/elts/us-gaap-2024.xsd", "https://xbrl.fasb.org/us-gaap/2024/elts/us-roles-2024.xsd", "https://xbrl.fasb.org/us-gaap/2024/elts/us-types-2024.xsd", "https://xbrl.sec.gov/country/2024/country-2024.xsd", "https://xbrl.sec.gov/dei/2024/dei-2024.xsd", "https://xbrl.sec.gov/ecd/2024/ecd-2024.xsd", "https://xbrl.sec.gov/stpr/2024/stpr-2024.xsd"] }, "calculationLink": { "local": ["cdxs-20240630_cal.xml"] }, "definitionLink": { "local": ["cdxs-20240630_def.xml"] }, "labelLink": { "local": ["cdxs-20240630_lab.xml"] }, "presentationLink": { "local": ["cdxs-20240630_pre.xml"] } }, "keyStandard": 261, "keyCustom": 31, "axisStandard": 26, "axisCustom": 0, "memberStandard": 39, "memberCustom": 30, "hidden": { "total": 19, "http://xbrl.sec.gov/dei/2024": 5, "http://fasb.org/us-gaap/2024": 14 }, "contextCount": 227, "entityCount": 1, "segmentCount": 69, "elementCount": 580, "unitCount": 6, "baseTaxonomies": { "http://fasb.org/us-gaap/2024": 744, "http://xbrl.sec.gov/dei/2024": 29, "http://xbrl.sec.gov/ecd/2024": 4 }, "report": { "R1": { "role": "http://www.codexis.com/role/CoverPage", "longName": "0000001 - 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Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer)." } } }, "auth_ref": ["r56", "r816"] }, "us-gaap_AccountsReceivableGrossCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccountsReceivableGrossCurrent", "crdr": "debit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited": { "parentTag": "us-gaap_NotesReceivableGross", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited"], "lang": { "en-us": { "role": { "terseLabel": "Accounts receivable", "label": "Accounts Receivable, before Allowance for Credit Loss, Current", "documentation": "Amount, before allowance for credit loss, of right to consideration from customer for product sold and service rendered in normal course of business, classified as current." } } }, "auth_ref": ["r176", "r273", "r755"] }, "us-gaap_AccountsReceivableMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccountsReceivableMember", "presentation": ["http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationConcentrationRiskDetails"], "lang": { "en-us": { "role": { "terseLabel": "Accounts Receivable", "label": "Accounts Receivable [Member]", "documentation": "Due from customers or clients for goods or services that have been delivered or sold." } } }, "auth_ref": ["r736"] }, "us-gaap_AccruedLiabilitiesCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccruedLiabilitiesCurrent", "crdr": "credit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited": { "parentTag": "us-gaap_LiabilitiesCurrent", "weight": 1.0, "order": 5.0 }, "http://www.codexis.com/role/BalanceSheetsDetailsOtherAccruedLiabilitiesDetails": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://www.codexis.com/role/BalanceSheetsDetailsOtherAccruedLiabilitiesDetails", "http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited"], "lang": { "en-us": { "role": { "verboseLabel": "Other accrued liabilities", "totalLabel": "Total other accrued liabilities", "label": "Accrued Liabilities, Current", "documentation": "Carrying value as of the balance sheet date of obligations incurred and payable, pertaining to costs that are statutory in nature, are incurred on contractual obligations, or accumulate over time and for which invoices have not yet been received or will not be rendered. Examples include taxes, interest, rent and utilities. Used to reflect the current portion of the liabilities (due within one year or within the normal operating cycle if longer)." } } }, "auth_ref": ["r58"] }, "us-gaap_AccruedProfessionalFeesCurrentAndNoncurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccruedProfessionalFeesCurrentAndNoncurrent", "crdr": "credit", "calculation": { "http://www.codexis.com/role/BalanceSheetsDetailsOtherAccruedLiabilitiesDetails": { "parentTag": "us-gaap_AccruedLiabilitiesCurrent", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.codexis.com/role/BalanceSheetsDetailsOtherAccruedLiabilitiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Accrued professional and outside service fees", "label": "Accrued Professional Fees", "documentation": "Carrying value as of the balance sheet date of obligations incurred through that date and payable for professional fees, such as for legal and accounting services received." } } }, "auth_ref": ["r115"] }, "us-gaap_AccumulatedDepreciationDepletionAndAmortizationPropertyPlantAndEquipment": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccumulatedDepreciationDepletionAndAmortizationPropertyPlantAndEquipment", "crdr": "credit", "calculation": { "http://www.codexis.com/role/BalanceSheetsDetailsPropertyandEquipmentnetDetails": { "parentTag": "us-gaap_PropertyPlantAndEquipmentNet", "weight": -1.0, "order": 2.0 } }, "presentation": ["http://www.codexis.com/role/BalanceSheetsDetailsPropertyandEquipmentnetDetails"], "lang": { "en-us": { "role": { "negatedTerseLabel": "Less: accumulated depreciation and amortization", "label": "Accumulated Depreciation, Depletion and Amortization, Property, Plant, and Equipment", "documentation": "Amount of accumulated depreciation, depletion and amortization for physical assets used in the normal conduct of business to produce goods and services." } } }, "auth_ref": ["r37", "r168", "r613"] }, "us-gaap_AccumulatedOtherComprehensiveIncomeLossNetOfTax": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccumulatedOtherComprehensiveIncomeLossNetOfTax", "crdr": "credit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited": { "parentTag": "us-gaap_StockholdersEquity", "weight": 1.0, "order": 4.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited"], "lang": { "en-us": { "role": { "terseLabel": "Accumulated other comprehensive loss", "label": "Accumulated Other Comprehensive Income (Loss), Net of Tax", "documentation": "Amount, after tax, of accumulated increase (decrease) in equity from transaction and other event and circumstance from nonowner source." } } }, "auth_ref": ["r14", "r15", "r77", "r179", "r610", "r639", "r640"] }, "us-gaap_AccumulatedOtherComprehensiveIncomeMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AccumulatedOtherComprehensiveIncomeMember", "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofStockholdersEquityUnaudited"], "lang": { "en-us": { "role": { "terseLabel": "Accumulated Other Comprehensive Loss", "label": "AOCI Attributable to Parent [Member]", "documentation": "Accumulated increase (decrease) in equity from transactions and other events and circumstances from non-owner sources, attributable to the parent. Excludes net income (loss), and accumulated changes in equity from transactions resulting from investments by owners and distributions to owners." } } }, "auth_ref": ["r2", "r8", "r15", "r484", "r487", "r530", "r635", "r636", "r950", "r951", "r952", "r962", "r963", "r964", "r965"] }, "ecd_Additional402vDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "Additional402vDisclosureTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Additional 402(v) Disclosure", "label": "Additional 402(v) Disclosure [Text Block]" } } }, "auth_ref": ["r882"] }, "us-gaap_AdditionalPaidInCapital": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "AdditionalPaidInCapital", "crdr": "credit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited": { "parentTag": "us-gaap_StockholdersEquity", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited"], "lang": { "en-us": { "role": { "verboseLabel": "Additional paid-in capital", "label": "Additional Paid in Capital", "documentation": "Amount of excess of issue price over par or stated value of stock and from other transaction involving stock or stockholder. 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shares authorized (in shares)", "label": "Common Stock, Shares Authorized", "documentation": "The maximum number of common shares permitted to be issued by an entity's charter and bylaws." } } }, "auth_ref": ["r66", "r670"] }, "us-gaap_CommonStockSharesIssued": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockSharesIssued", "presentation": ["http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnauditedParenthetical"], "lang": { "en-us": { "role": { "terseLabel": "Common stock, shares, issued (in shares)", "label": "Common Stock, Shares, Issued", "documentation": "Total number of common shares of an entity that have been sold or granted to shareholders (includes common shares that were issued, repurchased and remain in the treasury). These shares represent capital invested by the firm's shareholders and owners, and may be all or only a portion of the number of shares authorized. Shares issued include shares outstanding and shares held in the treasury." } } }, "auth_ref": ["r66"] }, "us-gaap_CommonStockSharesOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockSharesOutstanding", "presentation": ["http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnauditedParenthetical"], "lang": { "en-us": { "role": { "terseLabel": "Common stock, shares, outstanding (in shares)", "label": "Common Stock, Shares, Outstanding", "documentation": "Number of shares of common stock outstanding. Common stock represent the ownership interest in a corporation." } } }, "auth_ref": ["r9", "r66", "r670", "r689", "r1099", "r1100"] }, "us-gaap_CommonStockValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CommonStockValue", "crdr": "credit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited": { "parentTag": "us-gaap_StockholdersEquity", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited"], "lang": { "en-us": { "role": { "verboseLabel": "Common stock, $0.0001 par value per share; 200,000 shares authorized; 70,914 shares and 69,905 shares issued and outstanding as of June\u00a030, 2024 and December\u00a031, 2023, respectively", "label": "Common Stock, Value, Issued", "documentation": "Aggregate par or stated value of issued nonredeemable common stock (or common stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable common shares, par value and other disclosure concepts are in another section within stockholders' equity." } } }, "auth_ref": ["r66", "r609", "r816"] }, "ecd_CompActuallyPaidVsCoSelectedMeasureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsCoSelectedMeasureTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Compensation Actually Paid vs. Company Selected Measure", "label": "Compensation Actually Paid vs. Company Selected Measure [Text Block]" } } }, "auth_ref": ["r899"] }, "ecd_CompActuallyPaidVsNetIncomeTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsNetIncomeTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Compensation Actually Paid vs. Net Income", "label": "Compensation Actually Paid vs. Net Income [Text Block]" } } }, "auth_ref": ["r898"] }, "ecd_CompActuallyPaidVsOtherMeasureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsOtherMeasureTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Compensation Actually Paid vs. Other Measure", "label": "Compensation Actually Paid vs. Other Measure [Text Block]" } } }, "auth_ref": ["r900"] }, "ecd_CompActuallyPaidVsTotalShareholderRtnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "CompActuallyPaidVsTotalShareholderRtnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Compensation Actually Paid vs. Total Shareholder Return", "label": "Compensation Actually Paid vs. Total Shareholder Return [Text Block]" } } }, "auth_ref": ["r897"] }, "us-gaap_ComprehensiveIncomeNetOfTax": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ComprehensiveIncomeNetOfTax", "crdr": "credit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedStatementsofComprehensiveLossUnaudited": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofComprehensiveLossUnaudited"], "lang": { "en-us": { "role": { "totalLabel": "Comprehensive loss", "label": "Comprehensive Income (Loss), Net of Tax, Attributable to Parent", "documentation": "Amount after tax of increase (decrease) in equity from transactions and other events and circumstances from net income and other comprehensive income, attributable to parent entity. Excludes changes in equity resulting from investments by owners and distributions to owners." } } }, "auth_ref": ["r16", "r190", "r192", "r197", "r599", "r619", "r620"] }, "us-gaap_ComputerEquipmentMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ComputerEquipmentMember", "presentation": ["http://www.codexis.com/role/BalanceSheetsDetailsPropertyandEquipmentnetDetails"], "lang": { "en-us": { "role": { "terseLabel": "Computer equipment and software", "label": "Computer Equipment [Member]", "documentation": "Long lived, depreciable assets that are used in the creation, maintenance and utilization of information systems." } } }, "auth_ref": [] }, "us-gaap_ConcentrationRiskBenchmarkDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskBenchmarkDomain", "presentation": ["http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationConcentrationRiskDetails"], "lang": { "en-us": { "role": { "terseLabel": "Concentration Risk Benchmark [Domain]", "label": "Concentration Risk Benchmark [Domain]", "documentation": "The denominator in a calculation of a disclosed concentration risk percentage." } } }, "auth_ref": ["r28", "r29", "r53", "r54", "r271", "r736"] }, "us-gaap_ConcentrationRiskByBenchmarkAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskByBenchmarkAxis", "presentation": ["http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationConcentrationRiskDetails"], "lang": { "en-us": { "role": { "terseLabel": "Concentration Risk Benchmark [Axis]", "label": "Concentration Risk Benchmark [Axis]", "documentation": "Information by benchmark of concentration risk." } } }, "auth_ref": ["r28", "r29", "r53", "r54", "r271", "r642", "r736"] }, "us-gaap_ConcentrationRiskByTypeAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskByTypeAxis", "presentation": ["http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationConcentrationRiskDetails"], "lang": { "en-us": { "role": { "terseLabel": "Concentration Risk Type [Axis]", "label": "Concentration Risk Type [Axis]", "documentation": "Information by type of concentration risk, for example, but not limited to, asset, liability, net assets, geographic, customer, employees, supplier, lender." } } }, "auth_ref": ["r28", "r29", "r53", "r54", "r271", "r736", "r935"] }, "us-gaap_ConcentrationRiskLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskLineItems", "presentation": ["http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationConcentrationRiskDetails"], "lang": { "en-us": { "role": { "terseLabel": "Concentration Risk [Line Items]", "label": "Concentration Risk [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r736"] }, "us-gaap_ConcentrationRiskPercentage1": { "xbrltype": "percentItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskPercentage1", "presentation": ["http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationConcentrationRiskDetails"], "lang": { "en-us": { "role": { "terseLabel": "Concentration risk, percentage", "label": "Concentration Risk, Percentage", "documentation": "For an entity that discloses a concentration risk in relation to quantitative amount, which serves as the \"benchmark\" (or denominator) in the equation, this concept represents the concentration percentage derived from the division." } } }, "auth_ref": ["r28", "r29", "r53", "r54", "r271"] }, "us-gaap_ConcentrationRiskTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskTable", "presentation": ["http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationConcentrationRiskDetails"], "lang": { "en-us": { "role": { "terseLabel": "Concentration Risk [Table]", "label": "Concentration Risk [Table]", "documentation": "Disclosure of information about concentration risk. Includes, but is not limited to, percentage of concentration risk and benchmark serving as denominator in calculation of percentage of concentration risk." } } }, "auth_ref": ["r27", "r28", "r29", "r30", "r53", "r111", "r736"] }, "us-gaap_ConcentrationRiskTypeDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConcentrationRiskTypeDomain", "presentation": ["http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationConcentrationRiskDetails"], "lang": { "en-us": { "role": { "terseLabel": "Concentration Risk Type [Domain]", "label": "Concentration Risk Type [Domain]", "documentation": "For an entity that discloses a concentration risk as a percentage of some financial balance or benchmark, identifies the type (for example, asset, liability, net assets, geographic, customer, employees, supplier, lender) of the concentration." } } }, "auth_ref": ["r28", "r29", "r53", "r54", "r271", "r736"] }, "us-gaap_ConstructionInProgressMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ConstructionInProgressMember", "presentation": ["http://www.codexis.com/role/BalanceSheetsDetailsPropertyandEquipmentnetDetails"], "lang": { "en-us": { "role": { "terseLabel": "Construction in progress", "label": "Construction in Progress [Member]", "documentation": "Structure or a modification to a structure under construction. Includes recently completed structures or modifications to structures that have not been placed into service." } } }, "auth_ref": [] }, "us-gaap_ContractWithCustomerAssetAndLiabilityTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ContractWithCustomerAssetAndLiabilityTableTextBlock", "presentation": ["http://www.codexis.com/role/RevenueRecognitionTables"], "lang": { "en-us": { "role": { "terseLabel": "Contract with Customer", "label": "Contract with Customer, Contract Asset, Contract Liability, and Receivable [Table Text Block]", "documentation": "Tabular disclosure of receivable, contract asset, and contract liability from contract with customer. Includes, but is not limited to, change in contract asset and contract liability." } } }, "auth_ref": ["r1002"] }, "us-gaap_ContractWithCustomerAssetCreditLossExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ContractWithCustomerAssetCreditLossExpense", "crdr": "debit", "presentation": ["http://www.codexis.com/role/RevenueRecognitionNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Impairment charges related to contract assets", "label": "Contract with Customer, Asset, Credit Loss Expense (Reversal)", "documentation": "Amount of expense (reversal of expense) for expected credit loss on right to consideration in exchange for good or service transferred to customer when right is conditioned on something other than passage of time." } } }, "auth_ref": ["r312", "r415", "r786"] }, "us-gaap_ContractWithCustomerAssetGrossCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ContractWithCustomerAssetGrossCurrent", "crdr": "debit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited": { "parentTag": "us-gaap_NotesReceivableGross", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited", "http://www.codexis.com/role/RevenueRecognitionContractswithCustomerDetails"], "lang": { "en-us": { "role": { "terseLabel": "Contract assets", "label": "Contract with Customer, Asset, before Allowance for Credit Loss, Current", "documentation": "Amount, before allowance for credit loss, of right to consideration in exchange for good or service transferred to customer when right is conditioned on something other than passage of time, classified as current." } } }, "auth_ref": ["r1000", "r1001"] }, "us-gaap_ContractWithCustomerLiability": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ContractWithCustomerLiability", "crdr": "credit", "presentation": ["http://www.codexis.com/role/RevenueRecognitionContractswithCustomerDetails"], "lang": { "en-us": { "role": { "verboseLabel": "Contract liabilities: deferred revenue", "label": "Contract with Customer, Liability", "documentation": "Amount of obligation to transfer good or service to customer for which consideration has been received or is receivable." } } }, "auth_ref": ["r404", "r405", "r417"] }, "us-gaap_ContractWithCustomerLiabilityChangeInTimeframePerformanceObligationSatisfiedRevenueRecognized": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ContractWithCustomerLiabilityChangeInTimeframePerformanceObligationSatisfiedRevenueRecognized", "crdr": "credit", "calculation": { "http://www.codexis.com/role/RevenueRecognitionRevenueRecognizedDuringPeriodDetails": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://www.codexis.com/role/RevenueRecognitionRevenueRecognizedDuringPeriodDetails"], "lang": { "en-us": { "role": { "totalLabel": "Total revenues", "label": "Contract with Customer, Liability, Change in Timeframe, Performance Obligation Satisfied, Revenue Recognized", "documentation": "Amount of revenue recognized arising from contract liability from change in timeframe for performance obligation to be satisfied." } } }, "auth_ref": ["r787"] }, "us-gaap_ContractWithCustomerLiabilityCumulativeCatchUpAdjustmentToRevenueChangeInEstimateOfTransactionPrice": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ContractWithCustomerLiabilityCumulativeCatchUpAdjustmentToRevenueChangeInEstimateOfTransactionPrice", "crdr": "credit", "calculation": { "http://www.codexis.com/role/RevenueRecognitionRevenueRecognizedDuringPeriodDetails": { "parentTag": "us-gaap_ContractWithCustomerLiabilityChangeInTimeframePerformanceObligationSatisfiedRevenueRecognized", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.codexis.com/role/RevenueRecognitionRevenueRecognizedDuringPeriodDetails"], "lang": { "en-us": { "role": { "terseLabel": "Changes in the estimated transaction price allocated to performance obligations satisfied in prior periods", "label": "Contract with Customer, Liability, Cumulative Catch-up Adjustment to Revenue, Change in Estimate of Transaction Price", "documentation": "Amount of increase (decrease) in revenue recognized for cumulative catch-up adjustment from change in estimate of transaction price which (increases) decreases obligation to transfer good or service to customer for which consideration from customer has been received or is due. Includes, but is not limited to, change in assessment of whether estimate of variable consideration is constrained." } } }, "auth_ref": ["r785"] }, "us-gaap_ContractWithCustomerLiabilityCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ContractWithCustomerLiabilityCurrent", "crdr": "credit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited": { "parentTag": "us-gaap_LiabilitiesCurrent", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited"], "lang": { "en-us": { "role": { "terseLabel": "Deferred revenue", "label": "Contract with Customer, Liability, Current", "documentation": "Amount of obligation to transfer good or service to customer for which consideration has been received or is receivable, classified as current." } } }, "auth_ref": ["r404", "r405", "r417"] }, "us-gaap_ContractWithCustomerLiabilityNoncurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ContractWithCustomerLiabilityNoncurrent", "crdr": "credit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited": { "parentTag": "us-gaap_Liabilities", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited"], "lang": { "en-us": { "role": { "verboseLabel": "Deferred revenue, net of current portion", "label": "Contract with Customer, Liability, Noncurrent", "documentation": "Amount of obligation to transfer good or service to customer for which consideration has been received or is receivable, classified as noncurrent." } } }, "auth_ref": ["r404", "r405", "r417"] }, "us-gaap_ContractWithCustomerLiabilityRevenueRecognized": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname":

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"http://www.codexis.com/role/FairValueMeasurementsNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Convertible Debt", "label": "Convertible Debt [Member]",
"documentation": "Borrowing which can be exchanged for a specified number of another security at the option of the issuer or the holder, for example, but not limited to, the entity's common stock." } } }, "auth_ref": ["r104", "r356", "r357", "r367", "r368", "r369", "r373", "r374", "r375", "r376", "r377", "r779", "r780", "r781", "r782", "r783"] }, "us-gaap_CorporateDebtSecuritiesMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "CorporateDebtSecuritiesMember",
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Includes production and non-production related depreciation." } } }, "auth_ref": [ "r5", "r36" ] }, "us-gaap_DepreciationDepletionAndAmortization": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DepreciationDepletionAndAmortization", "crdr": "debit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 7.0 } }, "presentation": [ "http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited" ], "lang": { "en-us": { "role": { "verboseLabel": "Depreciation and amortization", "label": "Depreciation, Depletion and Amortization", "documentation": "The aggregate expense recognized in the current period that allocates the cost of tangible assets, intangible assets, or depleting assets to periods that benefit from use of the assets." } } }, "auth_ref": [ "r5", "r236", "r247", "r263", "r766", "r767" ] }, "us-gaap_DisaggregationOfRevenueLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "DisaggregationOfRevenueLineItems", "presentation": [ "http://www.codexis.com/role/RevenueRecognitionDisaggregationofRevenueDetails", "http://www.codexis.com/role/RevenueRecognitionNarrativeDetails", "http://www.codexis.com/role/RevenueRecognitionPerformanceObligationDetails" ], "lang": { "en-us": { "role": { "terseLabel": "Disaggregation of Revenue [Line Items]", "label": "Disaggregation of Revenue [Line Items]", "documentation": "Line items represent financial concepts included in a table. 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Where multiple classes or units exist define each class/interest by adding class of stock items such as Common Class A [Member], Common Class B [Member] or Partnership Interest [Member] onto the Instrument [Domain] of the Entity Listings, Instrument." } } }, "auth_ref": [] }, "dei_EntityCurrentReportingStatus": { "xbrltype": "yesNoItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityCurrentReportingStatus", "presentation": [ "http://www.codexis.com/role/CoverPage" ], "lang": { "en-us": { "role": { "terseLabel": "Entity Current Reporting Status", "label": "Entity Current Reporting Status", "documentation": "Indicate 'Yes' or 'No' whether registrants (1) have filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that registrants were required to file such reports), and (2) have been subject to such filing requirements for the past 90 days. This information should be based on the registrant's current or most recent filing containing the related disclosure." } } }, "auth_ref": [] }, "dei_EntityDomain": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityDomain", "presentation": [ "http://www.codexis.com/role/CapitalStockDetails" ], "lang": { "en-us": { "role": { "terseLabel": "Entity [Domain]", "label": "Entity [Domain]", "documentation": "All the names of the entities being reported upon in a document. Any legal structure used to conduct activities or to hold assets. Some examples of such structures are corporations, partnerships, limited liability companies, grantor trusts, and other trusts. 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This information should be based on the registrant's current or most recent filing containing the related disclosure." } } }, "auth_ref": [ "r847" ] }, "dei_EntityIncorporationStateCountryCode": { "xbrltype": "edgarStateCountryItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityIncorporationStateCountryCode", "presentation": [ "http://www.codexis.com/role/CoverPage" ], "lang": { "en-us": { "role": { "terseLabel": "Entity Incorporation, State or Country Code", "label": "Entity Incorporation, State or Country Code", "documentation": "Two-character EDGAR code representing the state or country of incorporation." } } }, "auth_ref": [] }, "dei_EntityInteractiveDataCurrent": { "xbrltype": "yesNoItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityInteractiveDataCurrent", "presentation": [ "http://www.codexis.com/role/CoverPage" ], "lang": { "en-us": { "role": { "terseLabel": "Entity Interactive Data Current", "label": "Entity Interactive Data Current", "documentation": "Boolean flag that is true when the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit such files)." } } }, "auth_ref": [ "r931" ] }, "dei_EntityRegistrantName": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityRegistrantName", "presentation": [ "http://www.codexis.com/role/CoverPage" ], "lang": { "en-us": { "role": { "terseLabel": "Entity Registrant Name", "label": "Entity Registrant Name", "documentation": "The exact name of the entity filing the report as specified in its charter, which is required by forms filed with the SEC." } } }, "auth_ref": [ "r847" ] }, "dei_EntityShellCompany": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityShellCompany", "presentation": [ "http://www.codexis.com/role/CoverPage" ], "lang": { "en-us": { "role": { "terseLabel": "Entity Shell Company", "label": "Entity Shell Company", "documentation": "Boolean flag that is true when the registrant is a shell company as defined in Rule 12b-2 of the Exchange Act." } } }, "auth_ref": [ "r847" ] }, "dei_EntitySmallBusiness": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntitySmallBusiness", "presentation": [ "http://www.codexis.com/role/CoverPage" ], "lang": { "en-us": { "role": { "terseLabel": "Entity Small Business", "label": "Entity Small Business", "documentation": "Indicates that the company is a Smaller Reporting Company (SRC)." } } }, "auth_ref": [ "r847" ] }, "dei_EntityTaxIdentificationNumber": { "xbrltype": "employerIdItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "EntityTaxIdentificationNumber", "presentation": [ "http://www.codexis.com/role/CoverPage" ], "lang": { "en-us": { "role": { "terseLabel": "Entity Tax Identification Number", "label": "Entity Tax Identification Number", "documentation": "The Tax Identification Number (TIN), also known as an Employer Identification Number (EIN), is a unique 9-digit value assigned by the IRS." } } }, "auth_ref": [ "r847" ] }, "ecd_EqtyAwrdsAdjFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "EqtyAwrdsAdjFnTextBlock", "presentation": [ "http://xbrl.sec.gov/ecd/role/PvpDisclosure" ], "lang": { "en-us": { "role": { "terseLabel": "Equity Awards Adjustments, Footnote", "label": "Equity Awards Adjustments, Footnote [Text Block]" } } }, "auth_ref": [ "r886" ] }, "ecd_EqtyAwrdsAdjsExclgValRprtdInSummryCompstnTblMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "EqtyAwrdsAdjsExclgValRprtdInSummryCompstnTblMember", "presentation": [ "http://xbrl.sec.gov/ecd/role/PvpDisclosure" ], "lang": { "en-us": { "role": { "terseLabel": "Equity Awards Adjustments, Excluding Value Reported in Compensation Table", "label": "Equity Awards Adjustments, Excluding Value Reported in the Compensation Table [Member]" } } }, "auth_ref": [ "r927" ] }, "ecd_EqtyAwrdsAdjsMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "EqtyAwrdsAdjsMember", "presentation": [ "http://xbrl.sec.gov/ecd/role/PvpDisclosure" ], "lang": { "en-us": { "role": { "terseLabel": "Equity Awards Adjustments", "label": "Equity Awards Adjustments [Member]" } } }, "auth_ref": [ "r927" ] }, "ecd_EqtyAwrdsInSummryCompstnTblForAplblYrMember": { "xbrltype": "domainItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "EqtyAwrdsInSummryCompstnTblForAplblYrMember", "presentation": [ "http://xbrl.sec.gov/ecd/role/PvpDisclosure" ], "lang": {
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These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r495", "r496", "r503", "r803"] }, "us-gaap_FairValueAssetsAndLiabilitiesMeasuredOnRecurringAndNonrecurringBasisTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueAssetsAndLiabilitiesMeasuredOnRecurringAndNonrecurringBasisTable", "presentation": ["http://www.codexis.com/role/FairValueMeasurementsNarrativeDetails", "http://www.codexis.com/role/FairValueMeasurementsSummaryofFinancialInstrumentsMeasuredatFairValueonaRecurringBasisDetails"], "lang": { "en-us": { "role": { "terseLabel": "Fair Value, Assets and Liabilities Measured on Recurring and Nonrecurring Basis [Table]", "label": "Fair Value, Recurring and Nonrecurring [Table]", "documentation": "Disclosure of information about asset and liability measured at fair value on recurring and nonrecurring basis." } } }, "auth_ref": ["r495", "r496", "r503", "r803"] }, "us-gaap_FairValueAssetsMeasuredOnRecurringBasisTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueAssetsMeasuredOnRecurringBasisTextBlock", "presentation": ["http://www.codexis.com/role/FairValueMeasurementsTables"], "lang": { "en-us": { "role": { "verboseLabel": "Summary of Financial Instruments Measured at Fair Value on a Recurring Basis", "label": "Fair Value, Assets Measured on Recurring Basis [Table Text Block]", "documentation": "Tabular disclosure of assets, including [financial] instruments measured at fair value that are classified in stockholders' equity, if any, by class that are measured at fair value on a recurring basis. The disclosures contemplated herein include the fair value measurements at the reporting date by the level within the fair value hierarchy in which the fair value measurements in their entirety fall, segregating fair value measurements using quoted prices in active markets for identical assets (Level 1), significant other observable inputs (Level 2), and significant unobservable inputs (Level 3)." } } }, "auth_ref": ["r1036", "r1037"] }, "us-gaap_FairValueByFairValueHierarchyLevelAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "FairValueByFairValueHierarchyLevelAxis", "presentation": ["http://www.codexis.com/role/FairValueMeasurementsSummaryofFinancialInstrumentsMeasuredatFairValueonaRecurringBasisDetails"], "lang": { "en-us": { "role": { "terseLabel": "Fair Value Hierarchy and NAV [Axis]", "label": "Fair Value Hierarchy and NAV [Axis]", "documentation": "Information by level within fair value hierarchy and fair value measured at net asset 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Includes, but is not limited to, interest expense for finance lease, amortization of right-of-use asset for finance lease, operating lease cost, short-term lease cost, variable lease cost and sublease income." } } }, "auth_ref": ["r1048"] }, "us-gaap_LeaseholdImprovementsMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LeaseholdImprovementsMember", "presentation": ["http://www.codexis.com/role/BalanceSheetsDetailsPropertyandEquipmentnetDetails"], "lang": { "en-us": { "role": { "terseLabel": "Leasehold improvements", "label": "Leasehold Improvements [Member]", "documentation": "Additions or improvements to assets held under a lease arrangement." } } }, "auth_ref": ["r99", "r529"] }, "dei_LegalEntityAxis": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "LegalEntityAxis", "presentation": ["http://www.codexis.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "terseLabel": "Legal Entity [Axis]", "label": "Legal Entity [Axis]", "documentation": "The set of legal entities associated with a report." } } }, "auth_ref": [] }, "us-gaap_LesseeOperatingLeaseLiabilityMaturityTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityMaturityTableTextBlock", "presentation": ["http://www.codexis.com/role/CommitmentsandContingenciesTables"], "lang": { "en-us": { "role": { "verboseLabel": "Operating Lease Maturity", "label": "Lessee, Operating Lease, Liability, to be Paid, Maturity [Table Text Block]", "documentation": "Tabular disclosure of undiscounted cash flows of lessee's operating lease liability. Includes, but is not limited to, reconciliation of undiscounted cash flows to operating lease liability recognized in statement of financial position." } } }, "auth_ref": ["r1049"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDue", "crdr": "credit", "calculation": { "http://www.codexis.com/role/CommitmentsandContingenciesMaturityAnalysisofOperatingLeaseDetails": { "parentTag": null, "weight": null, "order": null, "root": true }, "http://www.codexis.com/role/CommitmentsandContingenciesMaturityAnalysisofOperatingLeaseDetails_1": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://www.codexis.com/role/CommitmentsandContingenciesMaturityAnalysisofOperatingLeaseDetails"], "lang": { "en-us": { "role": { "totalLabel": "Total minimum lease payments", "label": "Lessee, Operating Lease, Liability, to be Paid", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease." } } }, "auth_ref": ["r528"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueNextTwelveMonths": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueNextTwelveMonths", "crdr": "credit", "calculation": { "http://www.codexis.com/role/CommitmentsandContingenciesMaturityAnalysisofOperatingLeaseDetails": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.codexis.com/role/CommitmentsandContingenciesMaturityAnalysisofOperatingLeaseDetails"], "lang": { "en-us": { "role": { "terseLabel": "2025", "label": "Lessee, Operating Lease, Liability, to be Paid, Year One", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease to be paid in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r528"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearFour": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueYearFour", "crdr": "credit", "calculation": { "http://www.codexis.com/role/CommitmentsandContingenciesMaturityAnalysisofOperatingLeaseDetails": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 5.0 } }, "presentation": ["http://www.codexis.com/role/CommitmentsandContingenciesMaturityAnalysisofOperatingLeaseDetails"], "lang": { "en-us": { "role": { "terseLabel": "2028", "label": "Lessee, Operating Lease, Liability, to be Paid, Year Four", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease to be paid in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r528"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearThree": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueYearThree", "crdr": "credit", "calculation": { "http://www.codexis.com/role/CommitmentsandContingenciesMaturityAnalysisofOperatingLeaseDetails": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 4.0 } }, "presentation": ["http://www.codexis.com/role/CommitmentsandContingenciesMaturityAnalysisofOperatingLeaseDetails"], "lang": { "en-us": { "role": { "terseLabel": "2027", "label": "Lessee, Operating Lease, Liability, to be Paid, Year Three", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease to be paid in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r528"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDueYearTwo": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsDueYearTwo", "crdr": "credit", "calculation": { "http://www.codexis.com/role/CommitmentsandContingenciesMaturityAnalysisofOperatingLeaseDetails": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.codexis.com/role/CommitmentsandContingenciesMaturityAnalysisofOperatingLeaseDetails"], "lang": { "en-us": { "role": { "terseLabel": "2026", "label": "Lessee, Operating Lease, Liability, to be Paid, Year Two", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease to be paid in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r528"] }, "us-gaap_LesseeOperatingLeaseLiabilityPaymentsRemainderOfFiscalYear": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LesseeOperatingLeaseLiabilityPaymentsRemainderOfFiscalYear", "crdr": "credit", "calculation": { "http://www.codexis.com/role/CommitmentsandContingenciesMaturityAnalysisofOperatingLeaseDetails": { "parentTag": "us-gaap_LesseeOperatingLeaseLiabilityPaymentsDue", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.codexis.com/role/CommitmentsandContingenciesMaturityAnalysisofOperatingLeaseDetails"], "lang": { "en-us": { "role": { "terseLabel": "2024 (remaining 6 months)", "label": "Lessee, Operating Lease, Liability, to be Paid, Remainder of Fiscal Year", "documentation": "Amount of lessee's undiscounted obligation for lease payment for operating lease having initial or remaining lease term in excess of one year to be paid in remainder of current fiscal year." } } }, "auth_ref": ["r1049"] }, "cdxs_LesseeOperatingLeaseLiabilityToBePaidAfterYearFour": { "xbrltype": "monetaryItemType", "nsuri": "http://www.codexis.com/20240630", "localname": "LesseeOperatingLeaseLiabilityToBePaidAfterYearFour", "crdr": "credit", "calculation": {

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Excludes lease obligation." } } }, "auth_ref": ["r12", "r116", "r368", "r383", "r780", "r781", "r814", "r1062"] }, "us-gaap_LongTermDebtMaturitiesRepaymentsOfPrincipalInNextTwelveMonths": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LongTermDebtMaturitiesRepaymentsOfPrincipalInNextTwelveMonths", "crdr": "credit", "calculation": { "http://www.codexis.com/role/DebtScheduleofMaturitiesofLongTermDebtDetails": { "parentTag": "us-gaap_DebtInstrumentCarryingAmount", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.codexis.com/role/DebtScheduleofMaturitiesofLongTermDebtDetails"], "lang": { "en-us": { "role": { "terseLabel": "2025", "label": "Long-Term Debt, Maturity, Year One", "documentation": "Amount of long-term debt payable, sinking fund requirement, and other securities issued that are redeemable by holder at fixed or determinable price and date, maturing in next fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r7", "r209", "r373"] }, "us-gaap_LongTermDebtMaturitiesRepaymentsOfPrincipalInYearFive": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LongTermDebtMaturitiesRepaymentsOfPrincipalInYearFive", "crdr": "credit", "calculation": { "http://www.codexis.com/role/DebtScheduleofMaturitiesofLongTermDebtDetails": { "parentTag": "us-gaap_DebtInstrumentCarryingAmount", "weight": 1.0, "order": 5.0 } }, "presentation": ["http://www.codexis.com/role/DebtScheduleofMaturitiesofLongTermDebtDetails"], "lang": { "en-us": { "role": { "terseLabel": "2029", "label": "Long-Term Debt, Maturity, Year Five", "documentation": "Amount of long-term debt payable, sinking fund requirement, and other securities issued that are redeemable by holder at fixed or determinable price and date, maturing in fifth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r7", "r209", "r373"] }, "us-gaap_LongTermDebtMaturitiesRepaymentsOfPrincipalInYearFour": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LongTermDebtMaturitiesRepaymentsOfPrincipalInYearFour", "crdr": "credit", "calculation": { "http://www.codexis.com/role/DebtScheduleofMaturitiesofLongTermDebtDetails": { "parentTag": "us-gaap_DebtInstrumentCarryingAmount", "weight": 1.0, "order": 6.0 } }, "presentation": ["http://www.codexis.com/role/DebtScheduleofMaturitiesofLongTermDebtDetails"], "lang": { "en-us": { "role": { "terseLabel": "2028", "label": "Long-Term Debt, Maturity, Year Four", "documentation": "Amount of long-term debt payable, sinking fund requirement, and other securities issued that are redeemable by holder at fixed or determinable price and date, maturing in fourth fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r7", "r209", "r373"] }, "us-gaap_LongTermDebtMaturitiesRepaymentsOfPrincipalInYearThree": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LongTermDebtMaturitiesRepaymentsOfPrincipalInYearThree", "crdr": "credit", "calculation": { "http://www.codexis.com/role/DebtScheduleofMaturitiesofLongTermDebtDetails": { "parentTag": "us-gaap_DebtInstrumentCarryingAmount", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.codexis.com/role/DebtScheduleofMaturitiesofLongTermDebtDetails"], "lang": { "en-us": { "role": { "terseLabel": "2027", "label": "Long-Term Debt, Maturity, Year Three", "documentation": "Amount of long-term debt payable, sinking fund requirement, and other securities issued that are redeemable by holder at fixed or determinable price and date, maturing in third fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r7", "r209", "r373"] }, "us-gaap_LongTermDebtMaturitiesRepaymentsOfPrincipalInYearTwo": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LongTermDebtMaturitiesRepaymentsOfPrincipalInYearTwo", "crdr": "credit", "calculation": { "http://www.codexis.com/role/DebtScheduleofMaturitiesofLongTermDebtDetails": { "parentTag": "us-gaap_DebtInstrumentCarryingAmount", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.codexis.com/role/DebtScheduleofMaturitiesofLongTermDebtDetails"], "lang": { "en-us": { "role": { "terseLabel": "2026", "label": "Long-Term Debt, Maturity, Year Two", "documentation": "Amount of long-term debt payable, sinking fund requirement, and other securities issued that are redeemable by holder at fixed or determinable price and date, maturing in second fiscal year following current fiscal year. Excludes interim and annual periods when interim periods are reported from current statement of financial position date (rolling approach)." } } }, "auth_ref": ["r7", "r209", "r373"] }, "us-gaap_LongTermDebtMaturitiesRepaymentsOfPrincipalRemainderOfFiscalYear": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LongTermDebtMaturitiesRepaymentsOfPrincipalRemainderOfFiscalYear", "crdr": "credit", "calculation": { "http://www.codexis.com/role/DebtScheduleofMaturitiesofLongTermDebtDetails": { "parentTag": "us-gaap_DebtInstrumentCarryingAmount", "weight": 1.0, "order": 4.0 } }, "presentation": ["http://www.codexis.com/role/DebtScheduleofMaturitiesofLongTermDebtDetails"], "lang": { "en-us": { "role": { "terseLabel": "2024", "label": "Long-Term Debt, Maturity, Remainder of Fiscal Year", "documentation": "Amount of long-term debt payable, sinking fund requirement, and other securities issued that are redeemable by holder at fixed or determinable price and date, maturing in remainder of current fiscal year." } } }, "auth_ref": ["r961"] }, "us-gaap_LongTermDebtNoncurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LongTermDebtNoncurrent", "crdr": "credit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited": { "parentTag": "us-gaap_Liabilities", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited"], "lang": { "en-us": { "role": { "terseLabel": "Long-term debt", "label": "Long-Term Debt, Excluding Current Maturities", "documentation": "Amount, after deduction of unamortized premium (discount) and debt issuance cost, of long-term debt classified as noncurrent. Excludes lease obligation." } } }, "auth_ref": ["r172"] }, "cdxs_LongTermUnbilledReceivablesMember": { "xbrltype": "domainItemType", "nsuri": "http://www.codexis.com/20240630", "localname": "LongTermUnbilledReceivablesMember", "presentation": ["http://www.codexis.com/role/RevenueRecognitionNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Long-Term Unbilled Receivables", "label": "Long-Term Unbilled Receivables [Member]", "documentation": "Long-Term Unbilled Receivables" } } }, "auth_ref": [] }, "us-gaap_LongtermDebtTypeAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LongtermDebtTypeAxis", "presentation": ["http://www.codexis.com/role/DebtNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Long-Term Debt, Type [Axis]", "label": "Long-Term Debt, Type [Axis]", "documentation": "Information by type of long-term debt." } } }, "auth_ref": ["r12", "r985", "r986", "r987"] }, "us-gaap_LongtermDebtTypeDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LongtermDebtTypeDomain", "presentation": ["http://www.codexis.com/role/DebtNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Long-Term Debt, Type [Domain]", "label": "Long-Term Debt, Type [Domain]", "documentation": "Type of long-term debt arrangement, such as notes, line of credit, commercial paper, asset-based financing, project financing, letter of credit financing. These are debt arrangements that originally required repayment more than twelve months after issuance or greater than the normal operating cycle of the company, if longer." } } }, "auth_ref": ["r12", "r38", "r985", "r986", "r987"] }, "us-gaap_LossContingenciesByNatureOfContingencyAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LossContingenciesByNatureOfContingencyAxis", "presentation": ["http://www.codexis.com/role/CommitmentsandContingenciesNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Loss Contingency Nature [Axis]", "label": "Loss Contingency Nature [Axis]", "documentation": "Information by type of existing condition, situation, or set of circumstances involving uncertainty as to possible loss to an enterprise that will ultimately be resolved when one or more future events occur or fail to occur." } } }, "auth_ref": ["r338", "r339", "r340", "r343", "r465", "r641", "r778", "r991", "r992"] }, "us-gaap_LossContingencyAccrualCarryingValueCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LossContingencyAccrualCarryingValueCurrent", "crdr": "credit", "presentation": ["http://www.codexis.com/role/CommitmentsandContingenciesNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Loss contingency accrual", "label": "Loss Contingency, Accrual, Current", "documentation": "Amount of loss contingency liability expected to be resolved within one year or the normal operating cycle, if longer." } } }, "auth_ref": ["r338"] }, "us-gaap_LossContingencyNatureDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "LossContingencyNatureDomain", "presentation": ["http://www.codexis.com/role/CommitmentsandContingenciesNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Loss Contingency, Nature [Domain]", "label": "Loss Contingency, Nature [Domain]", "documentation": "An existing condition, situation, or set of circumstances involving uncertainty as to possible loss to an enterprise that will ultimately be resolved when one or more future events occur or fail to occur. Resolution of the uncertainty may confirm the incurrence of a loss or impairment of an asset or the incurrence of a liability." } } }, "auth_ref": ["r338", "r339", "r340", "r343", "r465", "r641", "r778", "r991", "r992"] }, "srt_MajorCustomersAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "MajorCustomersAxis", "presentation": ["http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationConcentrationRiskDetails"], "lang": { "en-us": { "role": { "terseLabel": "Customer [Axis]", "label": "Customer [Axis]" } } }, "auth_ref": ["r271", "r790", "r827", "r831", "r1003", "r1064", "r1068", "r1069", "r1071", "r1072", "r1073", "r1074", "r1075", "r1076", "r1077", "r1078", "r1079", "r1080", "r1081", "r1082", "r1083", "r1084", "r1085", "r1086", "r1087", "r1088", "r1089", "r1090", "r1091", "r1092", "r1093", "r1095", "r1096"] }, "us-gaap_MarketableSecuritiesLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "MarketableSecuritiesLineItems", "presentation": ["http://www.codexis.com/role/InvestmentsinNonMarketableSecuritiesCarryingValueandFairValueofSecuritiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Marketable

Securities [Line Items]", "label": "Marketable Securities [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": [] }, "us-gaap_MarketableSecuritiesTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "MarketableSecuritiesTable", "presentation": ["http://www.codexis.com/role/InvestmentsinNonMarketableSecuritiesCarryingValueandFairValueofSecuritiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "Marketable Securities [Table]", "label": "Marketable Securities [Table]", "documentation": "Disclosure of information about investment in marketable security." } } }, "auth_ref": [] }, "srt_MaximumMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "MaximumMember", "presentation": ["http://www.codexis.com/role/CapitalStockDetails", "http://www.codexis.com/role/DebtNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Maximum", "label": "Maximum [Member]" } } }, "auth_ref": ["r339", "r340", "r341", "r342", "r427", "r465", "r499", "r562", "r631", "r633", "r641", "r660", "r661", "r714", "r719", "r723", "r724", "r727", "r747", "r748", "r772", "r784", "r798", "r807", "r808", "r812", "r813", "r828", "r998", "r1052", "r1053", "r1054", "r1055", "r1056", "r1057"] }, "ecd_MeasureAxis": { "xbrltype": "stringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "MeasureAxis", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Measure:", "label": "Measure [Axis]" } } }, "auth_ref": ["r894"] }, "ecd_MeasureName": { "xbrltype": "normalizedStringItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "MeasureName", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Name", "label": "Measure Name" } } }, "auth_ref": ["r894"] }, "srt_MinimumMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "MinimumMember", "presentation": ["http://www.codexis.com/role/DebtNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Minimum", "label": "Minimum [Member]" } } }, "auth_ref": ["r339", "r340", "r341", "r342", "r427", "r465", "r499", "r562", "r631", "r633", "r641", "r660", "r661", "r714", "r719", "r723", "r724", "r727", "r747", "r748", "r772", "r784", "r798", "r807", "r808", "r812", "r828", "r998", "r1052", "r1053", "r1054", "r1055", "r1056", "r1057"] }, "ecd_MnpiDiscTimedForCompValFlag": { "xbrltype": "booleanItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "MnpiDiscTimedForCompValFlag", "presentation": ["http://xbrl.sec.gov/ecd/role/AwardTimingDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "MNPI Disclosure Timed for Compensation Value", "label": "MNPI Disclosure Timed for Compensation Value [Flag]" } } }, "auth_ref": ["r913"] }, "cdxs_MolecularAssembliesIncMember": { "xbrltype": "domainItemType", "nsuri": "http://www.codexis.com/20240630", "localname": "MolecularAssembliesIncMember", "presentation": ["http://www.codexis.com/role/InvestmentsinNonMarketableSecuritiesCarryingValueandFairValueofSecuritiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "MAI", "label": "Molecular Assemblies, Inc. [Member]", "documentation": "Molecular Assemblies, Inc." } } }, "auth_ref": [] }, "us-gaap_MoneyMarketFundsMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "MoneyMarketFundsMember", "presentation": ["http://www.codexis.com/role/FairValueMeasurementsSummaryofFinancialInstrumentsMeasuredatFairValueonaRecurringBasisDetails"], "lang": { "en-us": { "role": { "terseLabel": "Money market funds", "label": "Money Market Funds [Member]", "documentation": "Fund that invests in short-term money-market instruments, for example, but not limited to, commercial paper, banker's acceptances, repurchase agreements, government securities, certificates of deposit, and other highly liquid securities." } } }, "auth_ref": ["r1004"] }, "ecd_MtrlTermsOfTrdArrTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "MtrlTermsOfTrdArrTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/InsiderTradingArrangements"], "lang": { "en-us": { "role": { "terseLabel": "Material Terms of Trading Arrangement", "label": "Material Terms of Trading Arrangement [Text Block]" } } }, "auth_ref": ["r921"] }, "srt_NameOfMajorCustomerDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/srt/2024", "localname": "NameOfMajorCustomerDomain", "presentation": ["http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationConcentrationRiskDetails"], "lang": { "en-us": { "role": { "terseLabel": "Customer [Domain]", "label": "Customer [Domain]" } } }, "auth_ref": ["r271", "r790", "r827", "r831", "r1003", "r1064", "r1068", "r1069", "r1071", "r1072", "r1073", "r1074", "r1075", "r1076", "r1077", "r1078", "r1079", "r1080", "r1081", "r1082", "r1083", "r1084", "r1085", "r1086", "r1087", "r1088", "r1089", "r1090", "r1091", "r1092", "r1093", "r1095", "r1096"] }, "ecd_NamedExecutiveOfficersFnTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "NamedExecutiveOfficersFnTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Named Executive Officers, Footnote", "label": "Named Executive Officers, Footnote [Text Block]" } } }, "auth_ref": ["r895"] }, "us-gaap_NatureOfOperations": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NatureOfOperations", "presentation": ["http://www.codexis.com/role/DescriptionofBusiness"], "lang": { "en-us": { "role": { "verboseLabel": "Description of Business", "label": "Nature of Operations [Text Block]", "documentation": "The entire disclosure for the nature of an entity's business, major products or services, principal markets including location, and the relative importance of its operations in each business and the basis for the determination, including but not limited to, assets, revenues, or earnings. For an entity that has not commenced principal operations, disclosures about the risks and uncertainties related to the activities in which the entity is currently engaged and an understanding of what those activities are being directed toward." } } }, "auth_ref": ["r132", "r140"] }, "us-gaap_NetCashProvidedByUsedInFinancingActivities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInFinancingActivities", "crdr": "debit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited": { "parentTag": "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited"], "lang": { "en-us": { "role": { "totalLabel": "Net cash provided by financing activities", "label": "Net Cash Provided by (Used in) Financing Activities", "documentation": "Amount of cash inflow (outflow) from financing activities, including discontinued operations. Financing activity cash flows include obtaining resources from owners and providing them with a return on, and a return of, their investment; borrowing money and repaying amounts borrowed, or settling the obligation; and obtaining and paying for other resources obtained from creditors on long-term credit." } } }, "auth_ref": ["r201"] }, "us-gaap_NetCashProvidedByUsedInFinancingActivitiesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInFinancingActivitiesAbstract", "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited"], "lang": { "en-us": { "role": { "verboseLabel": "Financing activities:", "label": "Net Cash Provided by (Used in) Financing Activities [Abstract]" } } }, "auth_ref": [] }, "us-gaap_NetCashProvidedByUsedInInvestingActivities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInInvestingActivities", "crdr": "debit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited": { "parentTag": "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect", "weight": 1.0, "order": 2.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited"], "lang": { "en-us": { "role": { "totalLabel": "Net cash used in investing activities", "label": "Net Cash Provided by (Used in) Investing Activities", "documentation": "Amount of cash inflow (outflow) from investing activities, including discontinued operations. Investing activity cash flows include making and collecting loans and acquiring and disposing of debt or equity instruments and property, plant, and equipment and other productive assets." } } }, "auth_ref": ["r201"] }, "us-gaap_NetCashProvidedByUsedInInvestingActivitiesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInInvestingActivitiesAbstract", "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited"], "lang": { "en-us": { "role": { "verboseLabel": "Investing activities:", "label": "Net Cash Provided by (Used in) Investing Activities [Abstract]" } } }, "auth_ref": [] }, "us-gaap_NetCashProvidedByUsedInOperatingActivities": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInOperatingActivities", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited": { "parentTag": "us-gaap_CashCashEquivalentsRestrictedCashAndRestrictedCashEquivalentsPeriodIncreaseDecreaseIncludingExchangeRateEffect", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited"], "lang": { "en-us": { "role": { "totalLabel": "Net cash used in operating activities", "label": "Net Cash Provided by (Used in) Operating Activities", "documentation": "Amount of cash inflow (outflow) from operating activities, including discontinued operations. Operating activity cash flows include transactions, adjustments, and changes in value not defined as investing or financing activities." } } }, "auth_ref": ["r90", "r91", "r93"] }, "us-gaap_NetCashProvidedByUsedInOperatingActivitiesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetCashProvidedByUsedInOperatingActivitiesAbstract", "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited"], "lang": { "en-us": { "role": { "verboseLabel": "Operating activities:", "label": "Net Cash Provided by (Used in) Operating Activities [Abstract]" } } }, "auth_ref": [] }, "us-gaap_NetIncomeLoss": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NetIncomeLoss", "crdr": "credit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedStatementsofComprehensiveLossUnaudited": { "parentTag": "us-gaap_ComprehensiveIncomeNetOfTax", "weight": 1.0, "order": 1.0 }, "http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 11.0 }, "http://www.codexis.com/role/CondensedConsolidatedStatementsofOperationsUnaudited": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited", "http://www.codexis.com/role/CondensedConsolidatedStatementsofComprehensiveLossUnaudited", "http://www.codexis.com/role/CondensedConsolidatedStatementsofOperationsUnaudited", "http://www.codexis.com/role/CondensedConsolidatedStatementsofStockholdersEquityUnaudited", "http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "totalLabel": "Net loss", "terseLabel": "Net loss", "verboseLabel": "Net loss", "label": "Net Income (Loss) Attributable to Parent", "documentation": "The portion of profit or loss for the period, net of income taxes, which is attributable to the parent." } } }, "auth_ref": ["r82", "r93", "r122", "r163", "r188", "r191", "r195", "r208", "r213", "r215", "r216", "r217", "r218", "r219", "r222", "r223", "r228", "r306", "r346", "r347", "r348", "r349", "r350", "r351", "r352", "r353", "r354", "r475", "r478", "r493", "r508", "r616", "r691", "r707", "r708", "r843", "r996"] }, "cdxs_NetProceedsFromStockOptionsExercised": { "xbrltype": "monetaryItemType", "nsuri": "http://www.codexis.com/20240630", "localname": "NetProceedsFromStockOptionsExercised", "crdr": "debit", "presentation": ["http://www.codexis.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "terseLabel": "Net proceeds from stock options exercised", "label": "Net Proceeds From Stock Options Exercised", "documentation": "Net Proceeds From Stock Options Exercised" } } }, "auth_ref": [] }, "us-gaap_NewAccountingPronouncementsPolicyPolicyTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "NewAccountingPronouncementsPolicyPolicyTextBlock", "presentation": ["http://www.codexis.com/role/BasisofPresentationandSummaryofSignificantAccountingPoliciesPolicies"], "lang": { "en-us": { "role": { "verboseLabel": "Accounting Pronouncements", "label": "New Accounting Pronouncements, Policy [Policy Text Block]", "documentation": "Disclosure of accounting policy pertaining to new accounting pronouncements that may impact the entity's financial reporting. 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institution, mortgage and other servicing rights, deferred policy acquisition costs, and deferred tax assets." } } }, "auth_ref": ["r270"] }, "us-gaap_NotesReceivableGross": {
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financing receivable covered under loss sharing agreement and net investment in lease." } } }, "auth_ref": ["r127", "r128", "r154", "r155", "r177", "r272", "r313", "r316",
"r774", "r775", "r943", "r981"] }, "us-gaap_NumberOfReportableSegments": { "xbrltype": "integerItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname":
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remaining lease term. Includes, but is not limited to, single lease cost, after impairment of right-of-use asset, calculated by amortization of remaining right-of-use asset and
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operating lease, excluding payments to bring another asset to condition and location necessary for its intended use." } } }, "auth_ref": ["r522", "r525"] }, "us-
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investments in non-marketable equity securities", "label": "Other Security Investments [Member]", "documentation": "Other investments in debt and equity securities and
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Includes, but is not limited to, preferred shares issued, repurchased, and held as treasury shares. Excludes preferred shares classified as debt." } } }, "auth_ref": ["r65", "r387"] }, "us-gaap_PreferredStockSharesOutstanding": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockSharesOutstanding", "presentation": ["http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnauditedParenthetical"], "lang": { "en-us": { "role": { "terseLabel": "Preferred stock, shares outstanding (in shares)", "label": "Preferred Stock, Shares Outstanding", "documentation": "Aggregate share number for all nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer) held by stockholders. Does not include preferred shares that have been repurchased." } } }, "auth_ref": ["r65", "r670", "r689", "r1099", "r1100"] }, "us-gaap_PreferredStockValue": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PreferredStockValue", "crdr": "credit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited": { "parentTag": "us-gaap_StockholdersEquity", "weight": 1.0, "order": 5.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited"], "lang": { "en-us": { "role": { "terseLabel": "Preferred stock, $0.0001 par value per share; 5,000 shares authorized, none issued and outstanding", "label": "Preferred Stock, Value, Issued", "documentation": "Aggregate par or stated value of issued nonredeemable preferred stock (or preferred stock redeemable solely at the option of the issuer). This item includes treasury stock repurchased by the entity. Note: elements for number of nonredeemable preferred shares, par value and other disclosure concepts are in another section within stockholders' equity." } } }, "auth_ref": ["r65", "r608", "r816"] }, "us-gaap_PrepaidExpenseAndOtherAssetsCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PrepaidExpenseAndOtherAssetsCurrent", "crdr": "debit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited": { "parentTag": "us-gaap_AssetsCurrent", "weight": 1.0, "order": 5.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited"], "lang": { "en-us": { "role": { "verboseLabel": "Prepaid expenses and other current assets", "label": "Prepaid Expense and Other Assets, Current", "documentation": "Amount of asset related to consideration paid in advance for costs that provide economic benefits in future periods, and amount of other assets that are expected to be realized or consumed within one year or the normal operating cycle, if longer." } } }, "auth_ref": ["r949"] }, "us-gaap_PrepaidExpenseCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PrepaidExpenseCurrent", "crdr": "debit", "presentation": ["http://www.codexis.com/role/BalanceSheetsDetailsNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Prepaid expense, current", "label": "Prepaid Expense, Current", "documentation": "Amount of asset related to consideration paid in advance for costs that provide economic benefits within a future period of one year or the normal operating cycle, if longer." } } }, "auth_ref": ["r182", "r322", "r323", "r756"] }, "us-gaap_ProceedsFromIssuanceOfCommonStock": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromIssuanceOfCommonStock", "crdr": "debit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited": { "parentTag": "us-gaap_NetCashProvidedByUsedInFinancingActivities", "weight": 1.0, "order": 3.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited"], "lang": { "en-us": { "role": { "terseLabel": "Proceeds from issuance of common stock in connection with equity sales agreement", "label": "Proceeds from Issuance of Common Stock", "documentation": "The cash inflow from the additional capital contribution to the entity." } } }, "auth_ref": ["r3"] }, "us-gaap_ProceedsFromIssuanceOfLongTermDebt": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromIssuanceOfLongTermDebt", "crdr": "debit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited": { "parentTag": "us-gaap_NetCashProvidedByUsedInFinancingActivities", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited"], "lang": { "en-us": { "role": { "terseLabel": "Proceeds from long-term debt", "label": "Proceeds from Issuance of Long-Term Debt", "documentation": "The cash inflow from a debt initially having maturity due after one year or beyond the operating cycle, if longer." } } }, "auth_ref": ["r18", "r647"] }, "us-gaap_ProceedsFromMaturitiesPrepaymentsAndCallsOfShorttermInvestments": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromMaturitiesPrepaymentsAndCallsOfShorttermInvestments", "crdr": "debit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited": { "parentTag": "us-gaap_NetCashProvidedByUsedInInvestingActivities", "weight": 1.0, "order": 5.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited"], "lang": { "en-us": { "role": { "terseLabel": "Proceeds from maturity of short-term investments", "label": "Proceeds from Maturities, Prepayments and Calls of Short-Term Investments", "documentation": "The cash inflow from maturities, prepayments, calls and collections of all investments, including securities and other assets, having ready marketability and intended by management to be liquidated, if necessary, within the current operating cycle. Includes cash flows from securities classified as trading securities that were acquired for reasons other than sale in the short-term." } } }, "auth_ref": ["r17", "r88"] }, "us-gaap_ProceedsFromSaleOfPropertyPlantAndEquipment": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ProceedsFromSaleOfPropertyPlantAndEquipment", "crdr": "debit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited": { "parentTag": "us-gaap_NetCashProvidedByUsedInInvestingActivities", "weight": 1.0, "order": 4.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited"], "lang": { "en-us": { "role": { "terseLabel": "Proceeds from sale of property and equipment", "label": "Proceeds from Sale of Property, Plant, and Equipment", "documentation": "The cash inflow from the sale of long-lived, physical assets that are used in the normal conduct of business to produce goods and services 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Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures." } } }, "auth_ref": ["r99", "r167", "r614"] }, "us-gaap_PropertyPlantAndEquipmentLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentLineItems", "presentation": ["http://www.codexis.com/role/BalanceSheetsDetailsPropertyandEquipmentnetDetails"], "lang": { "en-us": { "role": { "terseLabel": "Property, Plant and Equipment [Line Items]", "label": "Property, Plant and Equipment [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r529"] }, "us-gaap_PropertyPlantAndEquipmentNet": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentNet", "crdr": "debit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited": { "parentTag": "us-gaap_Assets", "weight": 1.0, "order": 2.0 }, "http://www.codexis.com/role/BalanceSheetsDetailsPropertyandEquipmentnetDetails": { "parentTag": null, "weight": null, "order": null, "root": true } }, "presentation": ["http://www.codexis.com/role/BalanceSheetsDetailsPropertyandEquipmentnetDetails", "http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited"], "lang": { "en-us": { "role": { "verboseLabel": "Property and equipment, net", "totalLabel": "Property and equipment, net", "label": "Property, Plant and Equipment, Net", "documentation": "Amount after accumulated depreciation, depletion and amortization of physical assets used in the normal conduct of business to produce goods and services and not intended for resale. Examples include, but are not limited to, land, buildings, machinery and equipment, office equipment, and furniture and fixtures." } } }, "auth_ref": ["r6", "r529", "r603", "r614", "r816"] }, "us-gaap_PropertyPlantAndEquipmentTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "PropertyPlantAndEquipmentTextBlock", "presentation": ["http://www.codexis.com/role/BalanceSheetsDetailsTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Property and Equipment, Net", "label": "Property, Plant and Equipment [Table Text Block]", "documentation": "Tabular disclosure of physical assets used in the normal conduct of business and not intended for resale. Includes, but is not limited to, balances by class of assets, depreciation and depletion expense and method used, including composite depreciation, and accumulated deprecation." } } }, "auth_ref": ["r6"] }, "us-gaap_PropertyPlantAndEquipmentTypeDomain": { "xbrltype": "domainItemType",

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goods and services and not intended for resale. Examples include land, buildings, machinery and equipment, and other types of furniture and equipment including, but not
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"r661", "r714", "r719", "r723", "r724", "r727", "r747", "r748", "r772", "r784", "r798", "r807", "r808", "r812", "r813", "r828", "r837", "r988", "r998", "r1039", "r1053", "r1054",
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to be sold, leased, or otherwise marketed and writeoff of research and development assets acquired in transaction other than business combination or joint venture formation
or both. Excludes write-down of intangible asset acquired in business combination or from joint venture formation or both, used in research and development activity." } } },
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Cash", "documentation": "Amount of cash restricted as to withdrawal or usage. Cash includes, but is not limited to, currency on hand, demand deposits with banks or financial
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include, but are not limited to, short-term, highly liquid investments that are both readily convertible to known amounts of cash and so near their maturity that they present
insignificant risk of changes in value because of changes in interest rates." } } }, "auth_ref": ["r21", "r112", "r166", "r204", "r607"] }, "us-
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other accounts with general characteristics of demand deposits. Cash equivalents include, but are not limited to, short-term, highly liquid investments that are both readily
convertible to known amounts of cash and so near their maturity that they present insignificant risk of changes in value because of changes in interest rates." } } },
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Contract with Customer, Excluding Assessed Tax", "documentation": "Amount, excluding tax collected from customer, of revenue from satisfaction of performance obligation
by transferring promised good or service to customer. Tax collected from customer is tax assessed by governmental authority that is both imposed on and concurrent with
specific revenue-producing transaction, including, but not limited to, sales, use, value added and excise." } } }, "auth_ref": ["r123", "r124", "r236", "r244", "r245", "r259",
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from contract with customer to transfer good or service and to transfer nonfinancial asset. Includes, but is not limited to, disaggregation of revenue, credit loss recognized
from contract with customer, judgment and change in judgment related to contract with customer, and asset recognized from cost incurred to obtain or fulfill contract with
customer. Excludes insurance and lease contracts." } } }, "auth_ref": ["r141", "r406", "r407", "r408", "r409", "r410", "r411", "r412", "r413", "r419"] }, "us-
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"Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Period", "documentation": "Period in which remaining performance obligation is expected to be recognized as revenue, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days." } } }, "auth_ref": ["r138"] }, "us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionStartDateAxis", "presentation": ["http://www.codexis.com/role/RevenueRecognitionPerformanceObligationDetails"], "lang": { "en-us": { "role": { "terseLabel": "Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]", "label": "Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction, Start Date [Axis]", "documentation": "Start date of time band for expected timing of satisfaction of remaining performance obligation, in YYYY-MM-DD format." } } }, "auth_ref": ["r138"] }, "us-gaap_RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenueRemainingPerformanceObligationExpectedTimingOfSatisfactionTableTextBlock", "presentation": ["http://www.codexis.com/role/RevenueRecognitionTables"], "lang": { "en-us": { "role": { "terseLabel": "Performance Obligation, Expected Timing of Satisfaction", "label": "Revenue, Remaining Performance Obligation, Expected Timing of Satisfaction [Table Text Block]", "documentation": "Tabular disclosure of expected timing for satisfying remaining performance obligation." } } }, "auth_ref": ["r933"] }, "us-gaap_RevenuesAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "RevenuesAbstract", "presentation": 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Includes, but is not limited to, revenue from contract with customer and other sources." } } }, "auth_ref": ["r934"] }, "us-gaap_ScheduleOfAccruedLiabilitiesTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfAccruedLiabilitiesTableTextBlock", "presentation": ["http://www.codexis.com/role/BalanceSheetsDetailsTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Other Accrued Liabilities", "label": "Schedule of Accrued Liabilities [Table Text Block]", "documentation": "Tabular disclosure of the components of accrued liabilities." } } }, "auth_ref": [] }, "us-gaap_ScheduleOfAntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfAntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareTable", "presentation": ["http://www.codexis.com/role/NetLossperShareSharesNotIncludedinComputationofDilutedNetLossPerShareDetails"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Antidilutive Securities Excluded from Computation of Earnings Per Share [Table]", "label": "Antidilutive Security, Excluded EPS Calculation [Table]", "documentation": "Disclosure of information about security that could potentially dilute basic earnings per share (EPS) in future that was not included in calculation of diluted EPS." } } }, "auth_ref": ["r26"] }, "us-gaap_ScheduleOfAntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfAntidilutiveSecuritiesExcludedFromComputationOfEarningsPerShareTextBlock", "presentation": ["http://www.codexis.com/role/NetLossperShareTables"], "lang": { "en-us": { "role": { "terseLabel": "Shares Not Included in Computation of Diluted Net Loss Per Share", "label": "Schedule of Antidilutive Securities Excluded from Computation of Earnings Per Share [Table Text Block]", "documentation": "Tabular disclosure of securities (including those issuable pursuant to contingent stock agreements) that could potentially dilute basic earnings per share (EPS) in the future that were not included in the computation of diluted EPS because to do so would increase EPS amounts or decrease loss per share amounts for the period presented, by antidilutive securities." } } }, "auth_ref": ["r26"] }, "us-gaap_ScheduleOfDebtInstrumentsTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfDebtInstrumentsTextBlock", "presentation": ["http://www.codexis.com/role/DebtTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Long-Term Debt Instruments", "label": "Schedule of Long-Term Debt Instruments [Table Text Block]", "documentation": "Tabular disclosure of long-debt instruments or arrangements, including identification, terms, features, collateral requirements and other information necessary to a fair presentation. These are debt arrangements that originally required repayment more than twelve months after issuance or greater than the normal operating cycle of the entity, if longer." } } }, "auth_ref": ["r12", "r42", "r45", "r55", "r107", "r108", "r780", "r782", "r961", "r1045"] }, "us-gaap_ScheduleOfEmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfEmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsTable", "presentation": ["http://www.codexis.com/role/StockbasedCompensationStockbasedCompensationExpenseDetails"], "lang": { "en-us": { "role": { "terseLabel": "Share-based Payment Arrangement, Expensed and Capitalized, Amount [Table]", "label": "Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Table]", "documentation": "Disclosure of information about amount recognized for award under share-based payment arrangement. Includes, but is not limited to, amount expensed in statement of income or comprehensive income, amount capitalized in statement of financial position, and corresponding reporting line item in financial statements." } } }, "auth_ref": ["r48"] }, "us-gaap_ScheduleOfEmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfEmployeeServiceShareBasedCompensationAllocationOfRecognizedPeriodCostsTextBlock", "presentation": ["http://www.codexis.com/role/StockbasedCompensationTables"], "lang": { "en-us": { "role": { "verboseLabel": "Schedule of Stock-based Compensation Expense", "label": "Share-Based Payment Arrangement, Expensed and Capitalized, Amount [Table Text Block]", "documentation": "Tabular disclosure of allocation of amount expensed and capitalized for award under share-based payment arrangement to statement of income or comprehensive income and statement of financial position. Includes, but is not limited to, corresponding line item in financial statement." } } }, "auth_ref": ["r48"] }, "us-gaap_ScheduleOfEntityWideDisclosureOnGeographicAreasLongLivedAssetsInIndividualForeignCountriesByCountryTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfEntityWideDisclosureOnGeographicAreasLongLivedAssetsInIndividualForeignCountriesByCountryTextBlock", "presentation": ["http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationTables"], "lang": { "en-us": { "role": { "verboseLabel": "Schedule of Long-Lived Assets by Geographical Area", "label": "Schedule of Disclosure on Geographic Areas, Long-Lived Assets in Individual Foreign Countries by Country [Table Text Block]", "documentation": "Tabular disclosure of the names of foreign countries in which material long-lived assets other than financial instruments, long-term customer relationships of a financial institution, mortgage and other servicing rights, deferred policy acquisition costs, and deferred tax assets are located, and amount of such long-lived assets located in that country or foreign geographic area." } } }, "auth_ref": ["r96"] }, "us-gaap_ScheduleOfInventoryCurrentTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfInventoryCurrentTableTextBlock", "presentation": ["http://www.codexis.com/role/BalanceSheetsDetailsTables"], "lang": { "en-us": { "role": { "verboseLabel": "Schedule of Inventory Components", "label": "Schedule of Inventory, Current [Table Text Block]", "documentation": "Tabular disclosure of the carrying amount as of the balance sheet date of merchandise, goods, commodities, or supplies held for future sale or to be used in manufacturing, servicing or production process." } } }, "auth_ref": ["r13", "r74", "r75", "r76"] }, "us-gaap_ScheduleOfMaturitiesOfLongTermDebtTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfMaturitiesOfLongTermDebtTableTextBlock", "presentation": ["http://www.codexis.com/role/DebtTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Maturities of Long-Term Debt", "label": "Schedule of Maturities of Long-Term Debt [Table Text Block]", "documentation": "Tabular disclosure of maturity and sinking fund requirement for long-term debt." } } }, "auth_ref": ["r7"] }, "us-gaap_ScheduleOfPropertyPlantAndEquipmentTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfPropertyPlantAndEquipmentTable", "presentation": ["http://www.codexis.com/role/BalanceSheetsDetailsPropertyandEquipmentnetDetails"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Property, Plant and Equipment [Table]", "label": "Property, Plant and Equipment [Table]", "documentation": "Disclosure of information about physical assets used in the normal conduct of business and not intended for resale. Includes, but is not limited to, balances by class of assets, depreciation and depletion expense and method used, including composite depreciation, and accumulated deprecation." } } }, "auth_ref": ["r6", "r529"] }, "us-gaap_ScheduleOfRevenuesFromExternalCustomersAndLongLivedAssetsTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfRevenuesFromExternalCustomersAndLongLivedAssetsTable", "presentation": ["http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationLongLivedAssetsbyGeographicAreaDetails"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Segment Reporting Information, by Segment [Table]", "label": "Schedule of Revenues from External Customers and Long-Lived Assets [Table]", "documentation": "Disclosure of information about revenue from external customer and long-lived asset by geographical area. Long-lived asset excludes financial instrument, customer relationship with financial institution, mortgage and other servicing right, deferred policy acquisition cost, and deferred tax asset." } } }, "auth_ref": ["r34", "r78"] }, "us-gaap_ScheduleOfShareBasedCompensationArrangementsByShareBasedPaymentAwardTable": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ScheduleOfShareBasedCompensationArrangementsByShareBasedPaymentAwardTable", "presentation": ["http://www.codexis.com/role/StockbasedCompensationNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Share-based Compensation Arrangements

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Includes, but is not limited to, common, convertible, and preferred stocks." } } }, "auth_ref": ["r40", "r41", "r42", "r43", "r44", "r45", "r105", "r107", "r108", "r109", "r173", "r174", "r175", "r238", "r387", "r388", "r389", "r391", "r394", "r399", "r401", "r647", "r648", "r649", "r650", "r784", "r932", "r958"] }, "us-gaap_SchedulesOfConcentrationOfRiskByRiskFactorTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SchedulesOfConcentrationOfRiskByRiskFactorTextBlock", "presentation": ["http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Customers that Contributed 10% or More of Total Accounts Receivable", "label": "Schedules of Concentration of Risk, by Risk Factor [Table Text Block]", "documentation": "Tabular disclosure of the nature of a concentration, a benchmark to which it is compared, and the percentage that the risk is to the benchmark." } } }, "auth_ref": ["r27", "r28", "r29", "r30", "r53", "r111"] }, "us-gaap_SecuredDebtMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SecuredDebtMember", "presentation": ["http://www.codexis.com/role/DebtNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Secured Debt", "label": "Secured Debt [Member]", "documentation": "Collateralized debt obligation backed by, for example, but not limited to, pledge, mortgage or other lien on the entity's assets." } } }, "auth_ref": [] }, "dei_Security12bTitle": { "xbrltype": "securityTitleItemType", "nsuri": "http://xbrl.sec.gov/dei/2024", "localname": "Security12bTitle", "presentation": ["http://www.codexis.com/role/CoverPage"], "lang": { "en-us": { "role": { "terseLabel": "Title of 12(b) Security", "label": "Title of 12(b) Security", "documentation": "Title of a 12(b) registered security." } } }, "auth_ref": ["r846"] }, "dei_SecurityExchangeName": { "xbrltype": 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Reporting [Abstract]", "label": "Segment Reporting [Abstract]" } } }, "auth_ref": [] }, "us-gaap_SegmentReportingDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SegmentReportingDisclosureTextBlock", "presentation": ["http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformation"], "lang": { "en-us": { "role": { "verboseLabel": "Segment, Geographical and Other Revenue Information", "label": "Segment Reporting Disclosure [Text Block]", "documentation": "The entire disclosure for reporting segments including data and tables. Reportable segments include those that meet any of the following quantitative thresholds a) it's reported revenue, including sales to external customers and intersegment sales or transfers is 10 percent or more of the combined revenue, internal and external, of all operating segments b) the absolute amount of its reported profit or loss is 10 percent or more of the greater, in absolute amount of 1) the combined reported profit of all operating segments that did not report a loss or 2) the combined reported loss of all operating segments that did report a loss c) its assets are 10 percent or more of the combined assets of all operating segments." } } }, "auth_ref": ["r126", "r236", "r239", "r240", "r241", "r242", "r243", "r249", "r250", "r251", "r261", "r262", "r263", "r264", "r265", "r267", "r268", "r271", "r761", "r764", "r765", "r766", "r768", "r770", "r771"] }, "us-gaap_SegmentReportingInformationLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SegmentReportingInformationLineItems", "presentation": ["http://www.codexis.com/role/SegmentGeographicalandOtherRevenueInformationLongLivedAssetsbyGeographicAreaDetails"], "lang": { "en-us": { "role": { "terseLabel": "Segment Reporting Information [Line Items]", "label": "Segment Reporting Information [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": [] }, "us-gaap_SegmentReportingPolicyPolicyTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SegmentReportingPolicyPolicyTextBlock", "presentation": ["http://www.codexis.com/role/BasisofPresentationandSummaryofSignificantAccountingPoliciesPolicies"], "lang": { "en-us": { "role": { "terseLabel": "Segment Information", "label": "Segment Reporting, Policy [Policy Text Block]", "documentation": "Disclosure of accounting policy for segment reporting." } } }, "auth_ref": ["r252", "r253", "r254", "r255", "r256", "r257", "r258", "r266", "r269", "r762", "r763", "r769"] }, "us-gaap_SellingGeneralAndAdministrativeExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SellingGeneralAndAdministrativeExpense", "crdr": "debit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedStatementsofOperationsUnaudited": { "parentTag": "us-gaap_CostsAndExpenses", "weight": 1.0, "order": 4.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofOperationsUnaudited"], "lang": { "en-us": { "role": { "terseLabel": "Selling, general and administrative", "label": "Selling, General and Administrative Expense", "documentation": "The aggregate total costs related to selling a firm's product and services, as well as all other general and administrative expenses. Direct selling expenses (for example, credit, warranty, and advertising) are expenses that can be directly linked to the sale of specific products. Indirect selling expenses are expenses that cannot be directly linked to the sale of specific products, for example telephone expenses, Internet, and postal charges. General and administrative expenses include salaries of non-sales personnel, rent, utilities, communication, etc." } } }, "auth_ref": ["r83"] }, "us-gaap_SellingGeneralAndAdministrativeExpensesMember": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SellingGeneralAndAdministrativeExpensesMember", "presentation": ["http://www.codexis.com/role/BalanceSheetsDetailsPropertyandEquipmentnetDetails", "http://www.codexis.com/role/StockbasedCompensationNarrativeDetails", "http://www.codexis.com/role/StockbasedCompensationStockbasedCompensationExpenseDetails"], "lang": { "en-us": { "role": { "terseLabel": "Selling, general and administrative", "verboseLabel": "Selling, general and administrative", "label": "Selling, General and Administrative Expenses [Member]", "documentation": "Primary financial statement caption encompassing selling, general and administrative expense." } } }, "auth_ref": [] }, "cdxs_SeqWellMember": { "xbrltype": "domainItemType", "nsuri": "http://www.codexis.com/20240630", "localname": "SeqWellMember", "presentation": ["http://www.codexis.com/role/InvestmentsinNonMarketableSecuritiesCarryingValueandFairValueofSecuritiesDetails"], "lang": { "en-us": { "role": { "terseLabel": "seqWell", "label": "seqWell [Member]", "documentation": "seqWell" } } }, "auth_ref": [] }, "us-gaap_ShareBasedCompensation": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensation", "crdr": "debit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited": { "parentTag": "us-gaap_NetCashProvidedByUsedInOperatingActivities", "weight": 1.0, "order": 5.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited", "http://www.codexis.com/role/StockbasedCompensationNarrativeDetails", "http://www.codexis.com/role/StockbasedCompensationStockbasedCompensationExpenseDetails"], "lang": { "en-us": { "role": { "verboseLabel": "Stock-based compensation", "terseLabel": "Share-based payment arrangement, noncash expense", "label": "Share-Based Payment Arrangement, Noncash Expense", "documentation": "Amount of noncash expense for share-based payment arrangement." } } }, "auth_ref": ["r4"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardAwardVestingPeriod1": { "xbrltype": "durationItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardAwardVestingPeriod1", "presentation": ["http://www.codexis.com/role/StockbasedCompensationNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Award vesting period", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Award Vesting Period", "documentation": "Period over which grantee's right to exercise award under share-based payment arrangement is no longer contingent on satisfaction of service or performance condition, in 'PnYnMnDTnHnMnS' format, for example, 'P1Y5M13D' represents reported fact of one year, five months, and thirteen days. Includes, but is not limited to, combination of market, performance or service condition." } } }, "auth_ref": ["r799"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardLineItems", "presentation": ["http://www.codexis.com/role/StockbasedCompensationNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Share-based Compensation Arrangement by Share-based Payment Award [Line Items]", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award [Line Items]", "documentation": "Line items represent financial concepts included in a table. These concepts are used to disclose reportable information associated with domain members defined in one or many axes to the table." } } }, "auth_ref": ["r429", "r431", "r433", "r434", "r435", "r436", "r437", "r438", "r439", "r440", "r441", "r442", "r443", "r444", "r445", "r446", "r447", "r448", "r449", "r450", "r451", "r452", "r453", "r454", "r455", "r456", "r457", "r458"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardNumberOfSharesAuthorized": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardNumberOfSharesAuthorized", "presentation": ["http://www.codexis.com/role/StockbasedCompensationNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Number of shares authorized (in shares)", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Number of Shares Authorized", "documentation": "Number of shares authorized for issuance under share-based payment arrangement." } } }, "auth_ref": ["r801"] }, "us-gaap_ShareBasedCompensationArrangementByShareBasedPaymentAwardSharesIssuedInPeriod": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementByShareBasedPaymentAwardSharesIssuedInPeriod", "presentation": ["http://www.codexis.com/role/StockbasedCompensationNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Share-based compensation arrangement by share-based payment award, shares issued in period (in shares)", "label": "Share-Based Compensation Arrangement by Share-Based Payment Award, Shares Issued in Period", "documentation": "Number of shares issued under share-based payment arrangement." } } }, "auth_ref": ["r47"] }, "cdxs_ShareBasedCompensationArrangementBySharebasedPaymentAwardConsecutiveOfferingPeriod": { "xbrltype": "durationItemType", "nsuri": "http://www.codexis.com/20240630", "localname": "ShareBasedCompensationArrangementBySharebasedPaymentAwardConsecutiveOfferingPeriod", "presentation": ["http://www.codexis.com/role/StockbasedCompensationNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Consecutive offering period", "label": "Share-Based Compensation Arrangement By Share-based Payment Award, Consecutive Offering Period", "documentation": "Share-Based Compensation Arrangement By Share-based Payment Award, Consecutive Offering Period" } } }, "auth_ref": [] }, "us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardAwardTypeAndPlanNameDomain": { "xbrltype": "domainItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementsByShareBasedPaymentAwardAwardTypeAndPlanNameDomain", "presentation": ["http://www.codexis.com/role/StockbasedCompensationNarrativeDetails", "http://www.codexis.com/role/StockbasedCompensationStockbasedCompensationExpenseDetails", "http://xbrl.sec.gov/ecd/role/AwardTimingDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Award Type [Domain]", "label": "Award Type [Domain]", "documentation": "Award under share-based payment arrangement." } } }, "auth_ref": ["r433", "r434", "r435", "r436", "r437", "r438", "r439", "r440", "r441", "r442", "r443", "r444", "r445",

"r446", "r447", "r448", "r449", "r450", "r451", "r452", "r453", "r454", "r455", "r456", "r457", "r458"] }, "us-gaap_ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsExercisesInPeriodWeightedAverageExercisePrice": { "xbrltype": "perShareItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "ShareBasedCompensationArrangementsByShareBasedPaymentAwardOptionsExercisesInPeriodWeightedAverageExercisePrice", "presentation": ["http://www.codexis.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "terseLabel": "Weighted average exercise price of stock options exercised (in dollars per share)", "label": "Share-Based Compensation Arrangements by Share-Based Payment Award, Options, Exercises in Period, Weighted Average Exercise Price", "documentation": "Weighted average price at which option holders acquired shares when converting their stock options into shares." } } }, "auth_ref": ["r441"] }, "us-gaap_ShareBasedCompensationAwardTrancheOneMember": { 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Arrangement includes, but is not limited to, grantor incurring liability for product and service based on price of its shares." } } }, "auth_ref": ["r966"] }, "us-gaap_StockIssuedDuringPeriodSharesEmployeeStockPurchasePlans": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockIssuedDuringPeriodSharesEmployeeStockPurchasePlans", "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofStockholdersEquityUnaudited"], "lang": { "en-us": { "role": { "terseLabel": "Issuance of common stock under employee stock purchase plan (in shares)", "label": "Stock Issued During Period, Shares, Employee Stock Purchase Plans", "documentation": "Number of shares issued during the period as a result of an employee stock purchase plan." } } }, "auth_ref": ["r9", "r65", "r66", "r109"] }, "us-gaap_StockIssuedDuringPeriodSharesNewIssues": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockIssuedDuringPeriodSharesNewIssues", "presentation": ["http://www.codexis.com/role/CapitalStockDetails", "http://www.codexis.com/role/CondensedConsolidatedStatementsofStockholdersEquityUnaudited"], "lang": { "en-us": { "role": { "terseLabel": "Issuance of common stock in connection with an equity sales agreement, net of issuance costs (shares)", "label": "Stock Issued During Period, Shares, New Issues", "documentation": "Number of new stock issued during the period." } } }, "auth_ref": ["r9", "r65", "r66", "r109", "r647", "r709", "r733"] }, "us-gaap_StockIssuedDuringPeriodSharesOther": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockIssuedDuringPeriodSharesOther", "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofStockholdersEquityUnaudited"], "lang": { "en-us": { "role": { "terseLabel": "Issuance of common stock upon release of stock awards (in shares)", "label": "Stock Issued During Period, Shares, Other", "documentation": "Number of shares of stock issued attributable to transactions classified as other." } } }, "auth_ref": [] }, "us-gaap_StockIssuedDuringPeriodSharesStockOptionsExercised": { "xbrltype": "sharesItemType",

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Excludes temporary equity and equity attributable to noncontrolling interest." } } }, "auth_ref": ["r66", "r70", "r71", "r97", "r672", "r689", "r710", "r711", "r816", "r845", "r960", "r980", "r1043", "r1099"] }, "us-gaap_StockholdersEquityAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockholdersEquityAbstract", "presentation": ["http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited"], "lang": { "en-us": { "role": { "verboseLabel": "Stockholders' equity:", "label": "Equity, Attributable to Parent [Abstract]" } } }, "auth_ref": [] }, "us-gaap_StockholdersEquityNoteDisclosureTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "StockholdersEquityNoteDisclosureTextBlock", "presentation": ["http://www.codexis.com/role/CapitalStock"], "lang": { "en-us": { "role": { "terseLabel": "Capital Stock", "label": "Equity [Text Block]", "documentation": "The entire disclosure for equity." } } }, "auth_ref": ["r106", "r207", "r386", "r388", "r390", "r391", "r392", "r393", "r394", "r395", "r396", "r397", "r398", "r400", "r403", "r490", "r712", "r713", "r734"] }, "us-gaap_SubsidiarySaleOfStockAxis": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SubsidiarySaleOfStockAxis", "presentation": ["http://www.codexis.com/role/CapitalStockDetails"], "lang": { "en-us": { "role": { "terseLabel": "Sale of Stock [Axis]", "label": "Sale of Stock [Axis]", "documentation": "Information by type of sale of the entity's stock." } } }, "auth_ref": [] }, "us-gaap_SupplementalCashFlowInformationAbstract": { "xbrltype": "stringItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SupplementalCashFlowInformationAbstract", "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofCashFlowsUnaudited"], "lang": { "en-us": { "role": { "terseLabel": "Supplemental disclosure of cash flow information:", "label": "Supplemental Cash Flow Information [Abstract]" } } }, "auth_ref": [] }, "us-gaap_SupplyCommitmentTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "SupplyCommitmentTableTextBlock", "presentation": ["http://www.codexis.com/role/CommitmentsandContingenciesTables"], "lang": { "en-us": { "role": { "terseLabel": "Schedule of Supply and Service Commitments", "label": "Supply Commitment [Table Text Block]", "documentation": "Tabular disclosure of arrangements in which the entity has committed resources to supply goods or services to a customer. May include identification of the goods or services to be furnished, identity of the purchasing party, pricing, effects on pricing for failing to deliver the [minimum] quantities required to be furnished, cancellation rights, and termination provisions." } } }, "auth_ref": ["r63"] }, "ecd_TabularListTableTextBlock": { "xbrltype": "textBlockItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "TabularListTableTextBlock", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Tabular List, Table", "label": "Tabular List [Table Text Block]" } } }, "auth_ref": ["r901"] }, "ecd_TotalShareholderRtnAmt": { "xbrltype": "monetaryItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "TotalShareholderRtnAmt", "presentation": ["http://xbrl.sec.gov/ecd/role/PvpDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Total Shareholder Return Amount", "label": "Total Shareholder Return Amount" } } }, "auth_ref": ["r893"] 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Such securities primarily consist of treasury bills (short-term maturities - one year or less), treasury notes (intermediate term maturities - two to ten years), and treasury bonds (long-term maturities - ten to thirty years)." } } }, "auth_ref": ["r757", "r795", "r797", "r803", "r1061"] }, "us-gaap_UnamortizedDebtIssuanceExpense": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "UnamortizedDebtIssuanceExpense", "crdr": "debit", "calculation": { "http://www.codexis.com/role/DebtScheduleofMaturitiesofLongTermDebtDetails": { "parentTag": "us-gaap_LongTermDebt", "weight": -1.0, "order": 1.0 }, "http://www.codexis.com/role/DebtScheduleofLongTermDebtInstrumentsDetails": { "parentTag": "us-gaap_LongTermDebt", "weight": -1.0, "order": 2.0 } }, "presentation": ["http://www.codexis.com/role/DebtNarrativeDetails", "http://www.codexis.com/role/DebtScheduleofLongTermDebtInstrumentsDetails", "http://www.codexis.com/role/DebtScheduleofMaturitiesofLongTermDebtDetails"], "lang": { "en-us": { "role": { "terseLabel": "Unamortized debt issuance expense", "negatedTerseLabel": "Less: unamortized debt issuance costs", "label": "Unamortized Debt Issuance Expense", "documentation": "The remaining balance of debt issuance expenses that were capitalized and are being amortized against income over the lives of the respective bond issues. This does not include the amounts capitalized as part of the cost of the utility plant or asset." } } }, "auth_ref": [] }, "us-gaap_UnbilledContractsReceivable": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "UnbilledContractsReceivable", "crdr": "debit", "presentation": ["http://www.codexis.com/role/RevenueRecognitionContractswithCustomerDetails"], "lang": { "en-us": { "role": { "terseLabel": "Unbilled receivables", "label": "Unbilled Contracts Receivable", "documentation": "Unbilled amounts due for services rendered or to be rendered, actions taken or to be taken, or a promise to refrain from taking certain actions in accordance with the terms of a legally binding agreement between the entity and, at a minimum, one other party. An example would be amounts associated with contracts or programs where the recognized revenue for performance thereunder exceeds the amounts billed under the terms thereof as of the date of the balance sheet." } } }, "auth_ref": ["r564"] }, "us-gaap_UnbilledReceivablesCurrent": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "UnbilledReceivablesCurrent", "crdr": "debit", "calculation": { "http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited": { "parentTag": "us-gaap_NotesReceivableGross", "weight": 1.0, "order": 1.0 } }, "presentation": ["http://www.codexis.com/role/CondensedConsolidatedBalanceSheetsUnaudited"], "lang": { "en-us": { "role": { "terseLabel": "Unbilled receivables", "label": "Unbilled Receivables, Current", "documentation": "Amount received for services rendered and products shipped, but not yet billed, for non-contractual agreements due within one year or the normal operating cycle, if longer." } } }, "auth_ref": [] }, "us-gaap_UnbilledReceivablesNotBillableAtBalanceSheetDate": { "xbrltype": "monetaryItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "UnbilledReceivablesNotBillableAtBalanceSheetDate", "crdr": "debit", "presentation": ["http://www.codexis.com/role/RevenueRecognitionNarrativeDetails"], "lang": { "en-us": { "role": { "terseLabel": "Unbilled receivables, not billable", "label": "Unbilled Receivables, Not Billable", "documentation": "Amount of unbilled receivables under long-term contracts that have not been billed and were not billable." } } }, "auth_ref": ["r178"] }, "ecd_UndrlygSecurityMktPriceChngPct": { "xbrltype": "pureItemType", "nsuri": "http://xbrl.sec.gov/ecd/2024", "localname": "UndrlygSecurityMktPriceChngPct", "presentation": ["http://xbrl.sec.gov/ecd/role/AwardTimingDisclosure"], "lang": { "en-us": { "role": { "terseLabel": "Underlying Security Market Price Change", "label": "Underlying Security Market Price Change, Percent" } } }, "auth_ref": ["r919"] }, "us-

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in computing net loss per share, diluted (in shares)", "label": "Weighted Average Number of Shares Outstanding, Diluted", "documentation": "The average number of shares or units issued and outstanding that are used in calculating diluted EPS or earnings per unit (EPU), determined based on the timing of issuance of shares or units in the period." } } }, "auth_ref": ["r226", "r231"] }, "us-gaap_WeightedAverageNumberOfSharesOutstandingBasic": { "xbrltype": "sharesItemType", "nsuri": "http://fasb.org/us-gaap/2024", "localname": "WeightedAverageNumberOfSharesOutstandingBasic", "presentation": ["http://www.codexis.com/role/CondensedConsolidatedStatementsofOperationsUnaudited"], "lang": { "en-us": { "role": { "terseLabel": "Weighted average common stock shares used in computing net loss per share, basic (in shares)", "label": "Weighted Average Number of Shares Outstanding, Basic", "documentation": "Number of [basic] shares or units, after adjustment for contingently issuable shares or units 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D6O_F_[()RXD#>#P3?^^_] 7DO[HOK J!,(W MK_]3 9&A565X:-IN M4F6J0.-0H8_7D%H-WFJ6F$O+\G$0)/\AQXZD='DQ.B-9%(4([!'I/@>F%PF?? M?MFP.KJ%7>#D6U?
PUUO_T7N=VS:D/M<]MEX]SQ+(U,6_\.K"E8'?(; M6Z0FTQ4P%6YW;;0[\LP7E+9870EH[CQ A?/_V[/8/D\0(7=&ABH.E+F5BY= M33PWC=QVB9_@1(1] OC22""[/A?"C_F5!5FA+N')
M%?6@=$8#35Q7#C\56+B^>@"7.S+256>/%!)29:DW!(:6CRXVA(6TLKT=VO#& M."*)?6P)L\@/(A*:##T![J ^@23_^/0345-D&^32#"*S>VT[@!PL"_&2U.A MD!]8WL:P&B->[^M:-?
Z HH&7LCL0N2?ZD-";K (7H$6%P'-L2R#@^IA<(GM! M:U<*J][C[&#FT[Z/=NC0L/HU,B<"[2218W5IR^1]1 :,?\)^_' KD? MV5^A M0+A^,R>D+9<
^NOWB0V_W,^57)'PW0X!2HDC$M(D,EJ%(5,G#1_>IT^>\V,N MJW,7I#9HDX_,B:;/QFJ^>8FC!;OHP/<:1/[KC!#OÖ"' MG @+?Z5+HD32%H1@LP)P]6U<),JR68K]]08*$_A5\=[PF\
[0?P7,Q0($G?.-P?=LB9N533 M?OR-:Y$H/A>W@5S@LT_!'+"37B=8+J70XSW1>H!N&-2DL!K,XD)TRP MX"HXA^36F8]-3%U%28[?0?-6
^%'>#/P50@B6+R#B4>2(M+,JW""PK4)":]H M== TE8@^G$SIIZZ 7$OX45Z:]Q- !&YZ^A>! 3Q$[X]+S.7Z'G='_XF =HUE97Z?. MR93CN$Z2Y5YH#)7B?
Y,%WSRVZ*/FSQ1^)'_5/\]*W$_N"B/ASS8&#GRI3"4OD(]1+-,1<)1A< M)116"5PQ'%\Q@ 0BP8%Q8P&9)B@&'Q'I)L+ADS4X\U:SA)+_?!#,%T;!8>VRY-W::[+?_YEZ$L
MPS2WC)!>ECZFM^V]8>OXTON(U9'8NY7)67!]7D;*B#OF14DY=9[?ST["MLG.*I2J50E^]KMO35?[PFIWK/ MN]VYJMWWS^KP:")S+#[D_(9_!5AX]OSW#*>>WD118B8W+?
Q[4F+T*R FT:F]K FROLVWXEFFFHE!-J?(K)TW.\'B"TTERGS)]97N<%3^C43-8VUR/!KVB('98@=)Q58B,0\?@ M\Y)O.>_DXZ\V?!H^*[@P-X_XH"]V0-=*%
[DF@0.*:]J1FTFM+0OY5B"0=%S; MVI;NH_R(?LKT.X7C1$KRE>9I:Z DF&#'2>$C_ B@H.&*^$!HCFC]G#C_^* MU3 72\' PHLR85AN!:<00[8I,5HVA>J21NTNH^F#096\$OGYMN7C
TYFDY!LRD>Z"MN MHY"J4-"EJWQWHVG/L\>\D)8[V$1AW>)HHSLH(M4NE>: @2%Y3TCX&0.[6C*WB+4?:W\G6MV.',BQ>9"Q^3+987O%'^@H\)PJW/\+*>74IJVQCT?*1^KQ\Y,1?
F'7/N/?D8_1'#XUA?A?(>47O M ;%VB]68/%)F<:ZBE3E+@^P9PFI8F50U/'1PWS9SVE9'2&N*-'TZ_P"&D)(*S V?7II#9YDFL(U-8XW"YAM3];?W._(6<.L$. 9>.^I6?-X M^>GK-
2GV='7[[?'ZV^/V0K,Y-$P3-K2,OC:LYJ2 KO77P4P[V_O?[M\7*XA78AT)XN.MFC[MYN;Q.BDC+?6/&!O=%08?/Z#B)_.+8OM(.P4<)]7AY,J#!UT2 M9X:_T365;M!^0@[
!PL/$XS#X"'P',#5#.^7'I78KO8XNXNQ6]G"2B[0K>"P MLE6@EU8!;RSH%RQ\]0(NX2WB MO\9EO,T\'N1X<1SX!/!#\+UGQ&M L?%O!T0&' A;S.'2&,*?2$+3*>%9?
E\MT6[DMB.0%OUF:0S#># MV(>E#A;E;\A%SU37_! (G^W C.(63>0T\Z6+G/? IB;'0CD1[17GJI-[[G$0 M.3QRV9%9XR"5W!9JEM12NM=B'I2'11$B2O$V3F*D:@A^<]-]$BSE>$)%
<:_3D M16GE+^'>#O[@JJDM&%#D' KGBS\)*^(R_&21.[TA[A Z4GZRN;M3I*%I"-^<0-) MKEQEEEG>19K]2P)"J=T5?\C)QXA:45 M'_D2VQ[>*B4SEAJF=$0DA"%^0&7H^US?
M8>MYZ1N^.=,(7!J= MT7=WJ6G7 W+BZA%Q5M=R^7T2:_@>T+XXB4'$M5-[4# XJT@GWX1I BY)&]?/ M>(PB)Q2^STC1&NS:GK^DE+@":@VCSTL!\:V61N!2ZXQ^@V?
+!ICL(:6=GVY MYFD-A\]+\VA<\S0!E\/.Z)86^KQQX_J \"JN&T986!GN*@9ZR6G/..L G M-$MHF5&YBN+-I)A1^>K-DM)7!S.G3ES=7S2-C7^Z;O%QWDD?QO=^W%4_7OR![G
M38BG@M3?)%\$[+$#)]9N) M9Z%PAWV!]C 0+J>D&TPPGT@3*BX/M+XL:Y7429:TQJJJA5ZU_7=E6.&@=K<0 M/;K5?]*:QWTM5_HVJ>\NI*7=3](BCT4J?,8FGCZ!
"L2I812U)GE;$L_>/9! MY*U>,F#3Q!@,:29"4OF*7U\&P?(JL:/>][:))GJ-6$=;JH#O@",A[Z?(&1 M%>;TF/Z/34YGQQZ3!O<"HAR_.(CE:[,NS)AC/5^1H KTOPKC?"15B$CFF4G^ M@O^,
[!?DK)C7"4>+3%X4&H#@OY::X&G8U0]MB MKY7=,.(0P"[10/M0;Q('L*6E>2!HR(1T7F3"/6PWLQ:0!4&)D&2@7>Z,-&FST6)!J.^ W#%6@CRF MY]DC8X_NW(L,A2##8
09Y^04/$P\/^R%V)*MOL";)IF>02Y@)[7_&DTT/>H M0$K.1Z#FS8*816T"%61![0Y$E1&;H,K@R]GC9X^BW(^?N)OUO['O94!'(WWX MAK(D?
V0$.^=D3RYV+GFD;#>"9(UM3EZ:)MV/$WQL8O#TGAS,5\0#5\24EO=S M4O[J>T&0!]6+KHV#SDCM#@;Y^;+5RA[DYI^ ["450JAIV1W45 M5D)XW"(^G:8M
QN#P&8P9.7$U#FE\-WY>(9@J<%O,U(@(R[4[']:D>;**5B> MLW"@/DTH?!T3&&P06IDS/DQ^F/&AB21C01R45K,\8X$]-.U1LT= D]09:5U9 MJLJ2993V=(8Y*5*!H6M?/:<6EN
5=R2GJSHL WSS4/$Q>U,Y*X M(=Q.4!4Z8%TEJ#2V0-6JRFK;P[;QT4_!=@4@>6^*_#]P7!,2Q[T$@Z6V73RR M>W!D-SEAFSJ."RF)S9:BLC(@.9NZR!-_6XBF' '?
BM&DLX6F=0:&]J^>9[W:CL.MZ ,5?4K HL(HD]PB=<"K M.[00,GMT^J&04=B"S!E8QG&S8A+XK2X7HMW0WQ=S6&0%';P1,J"[:T-58L2,
MX>;P"4,-5>"';J3)*BONU#D5'(L3R[*5Z,%'47*E]F11(NZ]QGJKA\+3WXN] M.N===>?I<4>DG1_44N2N*586J6*G#Q4!EUM M4-HN.X5X+^-5&3[9#4U-H9/\A],P_)IX#1
U^$*YI^DI%70,5X(#E M120M9IU!#'0.S#.Z,PCUI=T#G04N>&'TIIXHGA=&GZ'WK*KHI;U(UB;,6Z,5 M*7!Q%Z/BL&S_ :T\S,ZYUPI6#BX.[12'G&4VRHF#00XB&FI#MDU;=0P<&.A'
MY)R+-R4'2Q$A.]^J/'!QN)[.'.\=XWOLH!!;2_[!88*ABYV1WAUHK)S0Y7N8 MI].LE6-)H@FD%43EV=K=;(26C;+$BCUJY:OE4K M.Z8XQU!^X[4:#"FD"X*NL.+.G9/]FL;<9IY/X>"-
XZ,K&O<$8Z/F;-;!%F[B M5G*F)16=]P,%1R5Q$-GI1LRMV_K.M-2%D@: 9(^K&IGC-NV^3'Q&8\Q\(QT M9GK!;L3;AU;9XZZL7-!CVD-
F#M9RZ[;>%G=EX12W$I5D5C)#SR^SS]S<8^9E M["M7Q>5=0K+#)W8UI2K3MGC[B<149O>>*N#W:NCSB#$"M:;!"?,U7@%-Y:/82POGUQ8EY.AV!G)W"!N(V3*&,0[(2-U1@.5%@
M=RW\Q$L3'1P] #(^ A4_ Q$/Q[*=NJPJV3TB^2F:N,1M"\:D -!8_L-6[U_ M8]_+ (_6 90,94G^R AZSL!JC9.\G(7M6DV(MMV"D*>ZZ;$/FWO8I*QK STL6NII7>[^+- MDMH!M?
S[746A9G1&JM$U*BLOQ-!&5_,WBMO.K7C9@"T!@()LL/0L6N2J@@_ MDO;;@B3^5-TQ^*+Z[BVP+U5;^:43^A'>W!*8CYXTDED>>B9O0XPY6??Q_:+"
M5WK>TGS>9Q#Y6BW=$7>>.:QV0T75-2I__M2ZR+)?TGFF?$"XW17^NDND[K#_,$$^WFE"W7S[DM&G-?X*A=0=\F_]AY"&NRK(ES>9-WB_BV\:C'&H_2&8E]8,CF9L[&#\
(,^<(+>9\PP[X0D#=^%+;. MAEX/RA&6CCJXC,*)YP,$K()&A*'NH';V^(H1NNSX-'(L3>&R'H+4PR88G&=9A M) ,KG%1QWX_/' BV*6'B#O2+PS> T=S M:JNWP#1*FI226-SF+
<#RTJ/3:%[NH38O$'[%7&!/ LN0/BN9=8WR6ZVX'*0O M;IH7'5V6Z9MC8#K=53"DS5W;[9 ([*,#!YO,L6M^:(#*X,!L.<'1M<0-]. MMI(ZVVP74$ ..OP]N%"^G$:&0IH!H7Y&PBD
$CJ4V5+N2PHDQSW.J47-IFM$THH4T!8^FZ9)ZMSZ> M8#< DU-PO.#,2C'^6$K/!C!\^%M&0;V4S#3G\FJ9R#"@RB<4K7PF/;M \[4M98*^0H.O8>
MAPB^9%TCWP5R!$M4_AP3N;!L(@#31)&ZNK$9>+EIRR"H-C3OZ4"EDRQ= MO:MEU*,Y.:C.[YQ$D)'/R],5!YA6$X;C?N]%9:3862,SF@XZ ZDJDZ6,W^
HD&*VUGK*9E'D1^QY!YK1*JN^6Q+^W7E/^%W MZ5KE=8DLGJS9,PNN!9BX.8]*VRIO"I]]) 0]P1BB*(*;$O&EBY96%-T M1145=?AD6;]Q+$X'&N*HOZ3;#4F#TW\!>Z?
<>_)Q^B/'AK#!"^0\XK> X+? M9;(39(!J?)?)VS81L&*<9WUV,;#M7-MHP^\'.=66_C-#KK"C6MN1S<[HTU% M]6I95!_F DJR]Y)J?G #_/Y\7NJA7[:.M8$.
(FB&#*$G1]O7.%QXD7P#@L0 M=/UF8EAO[K OT)1.X7)*^^N6G1I=G=86-YBB@V8!ODC_\M&R@YF#WB]LEPZ4 M/O1Q]0-
$):RM^_1[\>5$6QC#OJQJ1&$DOGORX427]&'B'S9_5\6^*NF9E\2^ ME/G[ME=)2E]4!H5>M?UWQ=#8&Y2FJNP-JDI*J;L_OBZ;!,(U+#D630D7%+&;HZ["3C.]H11Y ML-]RT.-
\@)WI;>WV1.MB\[%G$Z8G'*H9+KYO=.FTTLIJPQ:216.HC(H:G2] MHIR3OH_[R@2EBA25A]"QRA?QD1UU9.U(0\QIAMSYGA69X;;^I*53Q)B;<.&M
M&Q8V:'+.K<@.C;9[AR91H5]\;YK5&NCZS70B0I;+(,#P?]9&[G&.31NY,QIT MY?)54=G)KN3BTE9Q&=0O+J3GB]0555;.2'%YX?*R55[T^N5%!7G1ND.IJIZ? M7%ZXO!Q-
7H;URXL&\F)T54EF1%[:<08W)U;N<8"1;TYH7JL%W':\&=EPWN:8 M-?4 Y1%$QZA?=&C_'%UFI0OJ&1_0/0*^)+%^@.FT>:BL\WYWK4285#_"AIV1 MT975THL_!QB+
)/K!Y@!*DSM#HW2=8+8JC; M%49'YM*3,A2C1:;<>#P&**S MY]#0"41'(04)2H9Y:-%"E M#*#4NJ)650R+@[+QH*QHUM1.B-%[2H9Y:-90^4Y9(==>4'2C]&+#_*XSP)^
MFY%C/^4RQNK.<>+/GW,F%X$U.9TVVYW15631:/O2L+=6?!#>CG_U/(N>4L?^ MBVWBX,%S"K#-U8ACC2*(TEO40H0QU%>_ZE"& TZ
MHV%7D4J75>,P8A%&>SR>"G%$6A!U!P8KZHAGC&#WL#+"9[(-MC>6'Y,4Q.+S M@J#7L6]86#B&-%]7E5C9\.);JJ<-P5>)));YJG<59;/7&\=2"[!T0BBI8F#?P?;@@EU?
XUI"^)RN4+90R&IH=2!GI5=2JYZ\T4J/;5 M)S\.J,C)0*6K#*K:7^2@8@I4M6"![H;=C6%*ZI68FJ/F7@D4&D45#HSBNK< M H:A'YEAY)..!W."_.<#! _GOJ@+7^>]P3/W& , ,^ MFS
A>RS\$XK$7)<_3+D^J75Z-D?Z"/9TAVZ=G M_6E.:MR!NX1U=B8>S![KC!+W9D[;[0*@D2Y-S'@DW,TJI0VV#22Y%UE-JFR1
MY0!B$4!5*1F9*YG68F2/(59>R2BL*9EV'1/:=7;>W"%8J/T]HVLZ=$'R4I,0 MB/ES]*KNB\,9 M0V_#,#TB],@^C]P=R)OZFT/O#*%W.N0-1%K^9I!1'IDC[PR1MV&H'A%ZY(#*
MH"L;F\$@AJ!W#M'4&](9$0>A8%-F\K3#@P.D-^X+T)\RD5(V"_YR9V3P MY+%VPF1/4',I3 JJ4'*XI"O)5873.8J80M&)0$1Z,76'0PZB5H)H3^BQ,A21 MXR-
=663EY/JIXXR6_5*S\;9(4$SVP+N"BQ<59^@ SR17\4@Q1D+<;Y[KK?H^ M_-6FS(Q !-ON)E85-B]:9C,W'K$Y X-%D:,#HCA>&D;7BJ"2\$5F=2XZFIB
M!9$]CB>V\)0[2E=8_Q@D6Z9^P)Q#U(WN$C]A$&J]^A)_$-])CTN M]Z5GG/#*+W$\2:@U$,YK5K($88D6TM2DS>*'),G".$&(EBF,^"R4L;OX@AN M#8+SVM8L03CN821)3-

L1YY#Y>>=[+W9 , 8<+&_5-]>?K793/9&@Q&_]A%T\ MMK/VU'6RE56ZT3L/>K (DKU;ZKE!HF7%6#E&6H"1RB R(/U3.4;:B)&]^^&Y M0:*3?J:.@.0< J;?<"@X8&\?QZ3-Q#IS-/CKD2;/MH ?)Q(,>#H\>UE/3@MI M3/M<%80-N'1QZ3HD2%U.NHPXK)S1P)Y+%Y>N]DK7*81K&)_YD@=E,D.X<+$% M,RY@.^P^$Z[LC M%?+6]>@:^2[0(4C?
\XE@9[[TB(NE1]X="ZUZ')]CY&:-1.F,Q'Y&)97R:V(# M[$HNFBS-[3#15"L7"?5 X3QP)%N5A$9$4]*Y:'+1K'MNAXEFY9(Y.% R*Q9, MG0AF1IU2+IA<,!LAF%KEDCD\4#
(/',E6T32(:&];&2'UB^8>_]FR@YF#WLD8 M=TCR.=[%"7<T,\U7B3-6]CV(5'+-'*SXJ^63FTULRT!')-25]LE(3LR80^-N)V
M!1DK'7%%,JUT1@.]J^F;J21<0EHJ(77";5>8K\KA5B;/&UE!L@Z/G)P6G80_DAOGR+_V79[,78OAJN:U<3D!/3IE:A,E.@#Q@(RB3./W'?JS7LA MO#WTA'""046AR+))2
!TDT5.!M&_T90L1'X>VRYR31LY,&[X@534#/JKU1>7 MR)!\697[N@:CFWF!3?3'A8\=%-HO^..K;8635+TO/9@03EP\@IY@$*#HMCZ2 MD)RDXQ@,T5M=*TVY]"
<9/%&^MB5C2YH_1,1EUY%GZS@ZYPXYK;$Y4 K>&"Y-9ZS@ MP'T@:\+7Y4-EK,[KQ^^I!OIIZUA94*Y;1G_C"H\3+X)W6$'9"=":UB;(A M3,1!LP!?I'_YF*[UMDN'0Q_ZN/H!
(O%K1A7]7GQYH0SZ8JP0$A,K^7)RN0^7 M/FS^K@[[DJQF7A+[4N;OVUXE27U)S[ZT[57;?U<&?% U#&KWJ_88\ 6W3H[C MBQJY7-%L!V@^)Z/4/E&L
>J9[H9>BQM13WPP&W^#^R:!< TKCR7\/7*QH(C= MK33(:6(;>=C/'D4>[+<<]#@;P"\%K/(>YF";O[(HJY7,=M_I@M:02RFK"=I(M%(ZA$A@ZT:&96F/:E5?[6&=[[BS#6LE0W;G.C?
FSO:?!8,T/XQ0U/S*TT]%V MS(YQ=IJ+68O%["3%/XQ3%/]HNIB=M8RU5\!.(%^RR'#]#RY<7+@:7?]#%AFN M_Y$[8Z10IHJD,"X;M T23=-?
[/D1U_(B3PSB6$4R^/,5/W_JH,C2MF7RBAZY M_]6:?1O'4#_[OH81OEO;,7'4$ AHA=D.V3KLP=JK!<@LG$Z\?RP%V)_*MCS M[J\![19*]L9#]%:B:6BIKKH-6DOR!ARH[EE)-
U@L+9D3B/&,UQ2;/MN(XCGV=H3VRM4*.R,T@WMX;;):M*]P MN?ZXZ XWF\L:E[5#=O6JE#6]@CT^+FMLH8[+6F6N5I6B-HRW^X9;WM@37K^H;PU\[>>L&;E?"_3WU:>FN5
MG*<>M/4T=>U<.YO#U0^D2.+$F%;@P4*HZ MO3NLYO2NWA_H1;]]CF,R^IHN,S8F2>H/)(.U08E]S=#8&]1 W#VH;*]!UH]<
M+*FAQZ"OXH+!="VLX/RG[[VN;RHWBAR7,%9B78,Y3XVU.V1;/=N-_W&%9G9(MKG Z79IF-(T<:E7%::L[2M5P,A$R?<9CV[1#3I71HT>D:*?YO71Z>$V12VH. M1'A?(Y.?Q\VN?
J1>Y52B4.8L"LH,<^;HY%%JE,Y(VFS2P(O&\)6JU4)DE!"B M@FN6"FN6:'1%Y9@ET+B,<1ECRQJ4Q:-;@Z0-E)&5!^S[6KS;T%G>=0[G5&^" M(**!8F\LK+3\C6;P5Q\[&
7T8OPK>D6^E6OGA#>K.S1"+.]ICTA5+^$;MCY' M/M#B#H;EI5W?R!9ZEK8E1SV535>!-SAD$S/)B7W.'LX>SA[.'LX>SI[S8 _W MM<[RKG-H\+'=UW(M[
MX.G.\=XR3'V>1;TZ(\P5T<@_RN'C)KE-X7-<)V^A- M=PG3[H!G098;1]J R%5EYC 0-6XYD Y;"CE[Z!SK(BV?)"0_P,Y$=XJXUDB M3GKF9'0:X!AB$T-
+P2!K88$D#1K.G2A[P46@]>/06)_C)V?T;-SFT3Z,^5.== M+:F\>_QG9 =VB!^P_V*;.#9=[K'I/;OT+=2**9HC)8N=D=H=##?K,W,TLHE& MKBPX>SA[6/ FF=/E$ENZ_!QVW+
[A,&\!&1[4X3$WSA[.'LX>SA[.GH8P Z!SV);:U/^?[$CQ8PMG#V9Ü>NLX$[313+'B.KVR3NOT&A*OT\NK M2YU;=:E]PI6G^*$\Y'5ZN>RPLKO[*4?
NTKHDQHN9P4<%RXM(Y^DB7>+XA\[R M0Q2X'VC/\0}XD>T@RSO>-[R[N(LCHEW/.<=SX^QEO*.Y^2VIC=C7IRQXQW/ M=]*)=S6<'_9ZWC>L,SO@UJA*
[P5.F^%SENAYPA!GD4K=(6G6-6:8K71QJ_B M%"M%Z8P&@^[*-WWAN\0L(4TOD.P=Q-NGW#EXVUG608"X['#9.2_948[>_%+1 M.B-M8'0-B?W]M3K%Z]PEK,U"EJ?
IQ@XAVWD82AE4=AB*MTAOL7PU2;@*Y6 I M&Y5.CY>#I7=&JJIT#;',Z;%6+V-+A9=);7OF83,[PT M.6+7#B0"CPW2W M4 C G \$].QC3-K8=047A^0-
=OHVTPM"FM3^URIJ^COT3KOFW8[G3@?YVA7Y M6):3H71&BK+IOI?(K>>QF5-XC3!D>BDHNBVMJN!6=G6-E4Z&'%8\(MMH]IQJ
M/^QPB=9=XOA_:G/@B9P]G3Z/94Z6'>&G]*PI"&N)[]!9%NTBYKALWJ=-% M(T14YUTMJ;Q[$I@,[! _8/_%-G%LR=QCTWMV25NMH45/8EM%I.*FR,PXXVEA"*[NYSD\F(8'9P]G#^.U
M*C8ZVFVI50$KW:*3<6'3Q.B,)*FKE>K&Q0'$(H VK>1C $@3V0$0WV\YR[MX M;_3U.MZ\<&\=:8<;+3(K+MRK29W1P.@.1=X;G9>5.K>R4ON$*T_A7DWFA7NY M()R?
[&QTGJVZ))NF=$::;G0UK:ICU5R\& $:%Z^]XG5 3?G<)7LU]60E>[ED M<:%];?.NGDRZK@[6- MA*4_)_X"Q,^X]^1C]$\! >/R#&%Z:Q3=1HR*09KU& ,(W^B? M*<=-
LRW\9@==X<8UMT.3G=&FM8TV$ M-A'W82URNV7T-Z[P./$B>(<5;$X UAFR/JPM+S X!\T")'^Y6.ZOVJ[]!/T MH8^KLR9RO&9$42+$EQH ;B[D%E>TBR?F07 MR=BX+2/\P%Y?
[*NXK!5=*ROHCNU[K^NI&(TBQ^(LAD"M,W(BHV>[\3^2@QF< M3*-+TXRFD4.-*EK%6"!G5'P\ :,+/)"\YQK.B4R?\=@V[2HZT#>=*H\>"-%N MZYL0)UN/2UH./;"@_VF_
;W#4)A&MP5BR:+21&R'_79#6% +/G*TA M:L3C-G#9&G)_$-WG/;X-TG7+DR9X>=T68?8RX[7';:+3O*T9,C MC,Y(&Y+DB"$7KQV#/W<):[.0Y2D5>FC^[$ \6?YLTT7LK.6K2<)5+
(5VH^[= MT5)H!U)GI!IZ5^,IM%S&&BYCA43LV$;B0.Z,AH/N0&(_?'$.I<5V-XK%25/? M1:=8+^[VRRN1'36G,O^%$NIT#3G[Q-FOA+8>*9Z1O%CKA]9;8A! OA\4T>ZPJHD.
M_Y=LN3Y02SIZ3%%P^@?+56%*^Y]#"9;<;XV,'HV4O!KTB MWSK,B>%5S4_AQ-!,T2S)&G1&0ZET6U)>"9_I=9.SA['.'LX>SA[.'LZ>A[#GK MO0.PKGU$CD[;+C$*71P;C*]V.
&3\"D4[.1)OHW HQ"G#V(7K7PKZ MIS/'>\:$Q.QG#N*-V-D-U%\G;*,WW25,NP.>!5E"9]#JF3QZWQ @ M\0 7T^PY5<[15AG/$'%=[(SDP6;./,<0FQCB(L[9P]G#@%-3F0*66%+ Y[-
M0KG2>T)QK>;I#+L!(B3GFQL?L/9P]G#W$I4Q>8&]?ZISKM:4GGW^,_(#NP0 M/V#_Q39QO(;=8]-[=NE;Z'6],B@+G=&>G>HL9)0R]'(E05G#V=PW[;-QSF+:
[-0SHMC+C5_3R'!]/PX.SA[&&\ MVM=&J_(8@I &[[14?"CL8.? M<]AMB7O(F"L]9)Q#S=SSC3'P$!!G#VKR,6QF&YT MP>--KVHX0B)O%&:ON.F53GKVB%U#JNKP"")_S@C2>$GV?
4O97N'"T_1*-WC3 M*RX[YR<[>$\K+F/-EK$B(J8#P_0/^J*U<< ('30+\$7ZEX]IWKCM M4@U$'_HX1?ZS[?9BF;K09AO21@<37_[X:EOAA.BLOACKK218GWPYN=R'2Q\V M?U?
@PD#)O"3VI8*_*T.UT!/;]7W!WK1;Y_CF(R^ILN,C4F2^@/)8&U08E\S M-/8&-1!W#RI[*97U(Z^EQL9M&59JK 1/8[$9:P:;GFFP7<6EWZBQE2-7;Q^E M?.]U?
6>N4>18G,43Z!)%3N3U;#?^1W(PCY-I=&F:T31R4(@M(<[\7-FKSWO MZ9S(]!F/;=,,..55&CQX(D;#LWOT@Q [>"G&R];BD[M#C#]V9ME&4YS#D"?-?.]\SX-@EU,0D"KTT&EN
M.S25ZB!N-2+)"KD1\M\%:4TA\ RK&C*L-/'(&59#M3,::-VA)#$?P^0;!'R# MH-(-@KW"E6OS6@,!XK+#9>?,9"=/7=-RNVN#SD@;#+KBD"]-NP9_[A+69B&3 MRPG9V'[#5N_?
V/>RY$N?'WTZMGPU7<3.6KZ:)%R%4K"TC021XZ5@#3LC59:Z M,D_!XC+6QN6X4<0\1\FVM?JB%V]C-ETG_MJK6>0%D#E#VKR<_6\[%G3\%E]K!6 M?K24 M8*=O,[T@I'GM?
ZW2I[#[[2NWUX[G20KUV1CV4Y&2HX&?)F'EN)Y'H>FSF% MUPA#I>"HOO2!ND/TA6'I3NR\Y ?TXL[9T_=4E_Q?MCA$C\@/4X-I72V,H<4
MEWC.'LX>QMESJBVRPQ6RSI9"/H==,\K('NTJ3IRX>5MQOC'6G$ 39P]G3Z/9 M4Z6K<&G]*PI"&NMY]!;5FTC=IALW*=A$0P54YUTMJ;Q[$J$*[! _8/_%-G&\ MI-
UCTWMVZ5OHZE9X41MV1EI7DS6^8=T0-')EP=G#V<.\E&<+C?8TN7G<#[I M$;W!RV; ^\8'M9W$/W*>A M3Q%A_>+YP,;?[7|"C@X"6> '>O73NMQN"ITBBJ3@4?TM'#F
>/ROT>PI=M8^ MOYMU'ZOE1Z^$C).S2N)F3B\7SYS2]L?.[1U7H8)D1'7P.VR[? MP'_)61.=!Q=:&/NI^WD.#Z;AP=G#V<.V;:+E;2@+*]V:-WI33):[@@%7150Z
M(T7M2FH%5=@X@)"T*9Q>Q0 J>P B)\'.LN[SN8\T%I7BLC%\4J_T:FFMK,S MY]R80ME8L*MM3*&(I*Z^T1UFA! .BT;57S9U!^R."#7F@A7YRZ86FWQ#Y2NK
M<_4^X&6FZT=6TTHD[7+S8 AH7 MK[WB91RO)84B#BMK2<$EBRV,G:=D%0IAJ1OMR([5CT(1CC^*= 0)594=#;!S;B+GW6M>S P^
M*EA>].3@0BV3^8?.\D,4N!"!'>D\5_X(WW3D@#$W;$3Q33Z^^@)X02#=D.198?T>+5K83<^:.U2K4!/ M,XQM%[FFC1P8-_Q T[GZ6R>=?%F5^[H&HYMY 3W.47O M 4'P,EF
)FMLV$;!BI&=]=C&PP6YMG49JYZ=&^WG*3NO/ N_V4%7N"'-[;AO MP#12Z;Y:ENZ'N4R33;$K%$R$+X[W&C"DU;+G\^/W5"]Q/Y8;USA<>)%\ XK M*#9Y6D]K7!H-"KMO^N#+7J
M!C7<^:H]F^@[319CX[8,WS &Q&G\)&,?J./*+/:;\!O<-0F$:U M%MU1%Q2Q MN^*/Y"1,$[SA;&]KM^6YV\%BF\&R**N5S#:_H=YPT,
M^V#8@U=!8A(O8+GCX*+,J8'R<#I6PGJ!D5644Q4'*15V,+#]L(B3<5BDR&QK M#HCFG6KAB"@+<<^\DRN6'WN*]%A)HNFQ\]""784&[!UP@6!K<@PFC$MR!0GC
M%4E$109.0U:YI=.L)';J8V"_;8-S[B;+7UKWQ21!E(A$6FQ7*JVC^JV@HYE MZQ3)'U.S'GOD_@M9I?M,M6#C,YX!'FQZ=%E KB6@J0>C__=JJ=+LO/*&'23/
M2Y)2ML2JPERF+OS=P>0OEZYUN43DPGI4 8^MJTE5);0R8%UP1.4O37 42*D$ M4H;*"J2J7)YEC?7E^1Y;48P+6'7)QJ:)?)]N=X(NCN+J:Y1@/6_<@]590$& MP^T%#AIV!+
(&M3P/_7PEG6OOR4=NQ]\#?$D(NRQ(UV^DKD?1:H8^R/!(ZFJ# MTGDO_(MD^C:RZ*/#]!; 'HC,"KRI@A^_]Z<%U_;M3LT\?;*BD5% O:Y&*H
M*8Q8,=PP/JG6K0A$51659\L4;G2,@JZ;@CV=(=NGY8A)G,(C3>P%$YC^C(,2 M@8ISL5GV%+PC)+Z94_@J)FN6?!A@VF84#>:&;1M LJ\LXA:4Y#[5)HN5G6KC
MMNL!8+A..@5C,_)I0%_ R'=)JK3O304?!_!/R8'WS7++)$N^B%1$KCH-RZ97T3=C]\-F$BP^HL#=NUP MJ4U2^W 0"CB.[+0E1GN,#C5[3(VE,-GM^$M\DL=]WM)57I%I.4-NEK82*?
NL MTIU0R;_$JMPVK35+98F-9,O+L@,SWOZ"L4S@6@]TZQ14[M.DEG.S1BM-,O1 MM-Z"-='YG%#\UGT@]'X$".[=D0SSE*08EO?WY1O#\E/(!"SJF28ZKSTZM9HJ"#%U>ZUB>W
M9=E1IFJQ%0ZJ.C9YLIT0B=1[S MI8[GJUPI%9UU-G^9EQ7AB7A5G;6Z<4V?)$M]QO%_;]R8RO@>F]A^(54!"A\X MD0V2#R(IK*1)\97TR$[*";&ED-IF1E=F)L6SRI66?
15,7$PW]'R^(WDD[;M$ MX"STDZ:R/,^N.:"I="'>R,%KDSDC>!$NC]R395Y%W/IXAVTIW(H.EI#ENMAY/ M<29D_XS'V/>QE63X7[H6=>=I E5Q8X.>^%-
%F1%;@QNRK!BR1T&;2@XO*3(K M ;/S2XNIW&7$@,V1>-Z.G.\ M=XSO20EM;'U=$'ENHL3T7[I26!7K]#"L42;IE=O%;()M5QI*36@C&ZMB5]'+ MQ#.X87QP?
HKCN<]Q'F!9C=U@>^9$-O+\Q$$$OJ4;EI$:@^AH4=X,8'!SN>GP M.CQX41V^5)'@:SC8#%GP(/.1J\?%@2?!QR_8C5ISWH4QU37P%[R%?^-T.)U=1 M !/&?BHN6?
V.5:DSTC.VIKE%W'0('YM]V"HH,*5.R.C:^AE2KDR: 6SGV+X M+4^5UC+V<(DFD(T7KOQ5D$D.[IWOO=@6MCZ]?P=>@#FSF:I;6*P4FE5D:!4<
MJ6&Z%2E'9.6%N8\%25(:5.O*AL$R),^B84E\KJK"@MR\84GC2KG?1;XY 7N. M')"=^63Q#]_I=@;^,[)IL18>##O\T-8=>J?'%A^]2Q/HZ>.[A,1W#G+#2]>Z
M3JE<6(W&%6$SRLKQ"%C3,;5GQ_B(H!IT1FI7DGE#C9/G5GHP?"N(RV8%P):* M]7&#XQE5JN.$S%^ R@] Y-OQ#M'9E X]\JPDVEL W#VZ=QRR,D^/=O\]$?V M-
>NB=@0);O&R+T>WG5;3%\;2S"HQ678%8MBS; MT@6X);F^ MRK]BYPDE2/?2. GO:(Y0TLF"OD.,'M MF I<6$Z!:Z19:1?(PXC-PZWEVJSETFC;K=[E-M=8;]IY38I]39'_!P[)P86E
MJN#G9F$?T\"F66X'2HO"FC'$K>N:8\>;:-I$C=H9Z1H#KEBU]1/[>O.2<^R, M'=LR\>!S3H4HEPDQWSL/!-"TSHC3>L.2HE6(48VP'0^9T263,ZI I)T W"H
M55#ID:'N5%W5'X^9F].B76'\AGW3)H5W2)B, M] P5O!F1S;,[8'RL'6%"T]N8I-<)L:TL)4D."]9J=/'0UOU;03G!Y)78D&AR+.*;F)8D4 MF>$'HS-2Y-(U=WG
BDF0%%6W"4IRASP'?/^W4?K7]*93TI^):ES;)7!Q<8RC M5SN"4GDN\/E]?&-PD[;L=7E!E4[HJ(7'6M1;F-S"26 M"BCM'&#:'Y8:R)W1L#O0N G-C@JGW1!!0]-
B&U9^55TFEZ?!1E%E1=$HW6\2 MLM-3^ G1R3G\N!TW25 .+N<$SQ(H!3Q2D8$2VMR!%U3(+/_$3057;O5^!O"3E^#,0M["M0BKY&EU-Y@'B=@+J(.-W.Z)VNU+5
M]3!ER_1MBM:-TZ5H]VC@W")289*E]-RR&H]Q;NAV3$0B%92DQ?JF'.B=T4#E MU1Z;@))CI"MFHB2_%AVV- ;<$"WZB-XPZ3]AD[*.M)2R$']"BT,AF""?Y(F' MH8-319N$#=
K\BV>VE!>PR;5JQ\]8 -Q]":>0\CRQ?,?"/4_H0!;5TO%[(L(MEL&:><*-W7KRR8N#; ,-NDAB4F4J[H)EXI:.[LHJ35&O/?E\EN29"D_OPC@C M+;%\0+==2;\5ZO MF;[SY-
##,WUUB88IQ&'IKER%>-@ F_N,P;A'V1\1C72# M+ZO]%6M@;%EAR.VJWTH*/=.=/>!Z-UX,B'7^ MPC'>5(62H?!Z%OF\2F)]?Y M8:2C'D8BXD?^_WK!A?LY
\B%2]=:_6'ISCN8B6=M%O(VG8A0]_K-G"#W&=^# M(7<]'F.S<.A;)N*@ZY6JC\+/MNL1A\<;TAQF%R[F%[HN(K;K;"BPEK(5E3^N,!H/NP.#Y MWZW$FL84V :=D20-NJ(\8
1M9^%M%%?JF+1;W:7.^+PIQ7R M86=DJ%U)+6WSUBSDU'KY0&O!I;M#2WM=^;-4.2[$-/,"F\SQ@J8(V"_XXZMM MA9.4F4L/)O,0%X^@)QAU%&Y_9(I\< /I'(U583:!0]BO&J.2N
^B,AGB<&WK M;.G/B;_8$WS&O2?<&UY M2 <^-G\8\!F7 DQ91[$&]'70+, 7Z5\^6G8P<]#[A>U2*M&'/B9<2_A-IK0& M-3JD^'(R6\/H#S6%3#BQFI,/)[3H RT^;/X^&/2-
H91Y2>QG_[M59+:UP:# M0J_:_KLRU*H;U'#GJ_9X&HPZ%-FUYRV5B MOZV3W*PYMDER]PDNP09-:R>RFR6X$@ANB_:L.-A;#/:]R]1>M,NDS?AFU@_? M-#N-
CTOZ+E#/=]D^N&ME)FN7ZN]\<*778SU_7B;)%9K9A-WX;89=RPXC,!X7 M%5B>HA" $ KON*!?S55X\U7XONT+"ISK)=RD94 ^1>$W+_Q?'&Y3[4IGI ^& MC*AV;LEP,2AAR921
[4S4I6J#LLTS<1AL0#9HP]/C[$?5\3)[I5-SAFC(.!A M($RP8Y&-6%J/+/O(&H_%M5@U[*B+E2*)E&Q)VSHO=W1^]"XIAOX&$"(G6@% M61]"M'/93!'GD6EV ,.E(4^9N(/$(7?-
@"&;)8TVTE1VYD34DR[R.,% 9\?Q M7HE/'R=6)(>S P$)/@8FF[9CTTWM=+<[9V:MCV>>3_Y%2G?:+LVMC5P4@9E$ M;O%<"[M!_#>:(42K>#PAAU9#"B:8++&
(MB;Y>^3BF)&*V!5D45;I!^$O"EF. MR8M#C[BQ2090 ,@3@LB<"&@*W(7W!!/OU170D_="3Q_F&DH0PG]H*8*5;?ZE M>$===*2D@G7TQEM!^,M3LT\?;*BD5% O:Y&*H
@27K,6^B*./@ M($M2)=/=%\9N#[V4HPG2"862[8V?G-)Z18]!N=:&57>1 MN+R=A;SE.5!4O<"1@T-R5RR?B5&3P#70A&"IBD9.'-^OAGZZ MT!+JM%DB.#4=46-E=WL MUBP&#?
0G'VDH_O "?]SLY68OF[4R#.DXM3*X^UDW(KD<-JJ>A2$?IY[%^;FE MZ>4$%PI-OJO2%L_Q_!+QURN)E'UU_4-CA-.,)Z-(,DU&L8,D!P6_D5JKF"9N M^&'DJ?W-4GX"4,,A M8]B6K]
(7=EG%76H6;YGJUA285^SC2JF0H<)!:>>EC=H9Z4I_LZ%62IO^!0= M6"/FU)E2#Q@+R#2]*7R;A%/)P1AX>Y)^M#>9*#DX!1!8I!5M4F1-&Y]S(2-C
M>R$C,GB".MN2L:5+%M8475%%11T^698N(G$L#L>:HJC_E,%.:%?UH_K$8F,G M7XY[=EOX#=3VC6MNAS,K@_V6BNS57$BOEH7TRUQ('^9"RORD?OR>ZIZ?-L>:
M4TRT3L8$LQ2#3>@&7QY6?TBC \%J2\DZ]ZW: KO,3=3\]?ZC"!R-.=V?#O# M/LUE#18+EQ8OD[8;8>LR3'XCK\"PR,T(I_T(=T:?X9^^/4L383]% 8PM"-+U M+AG(FMS"M>3=
<0;M_)OP?J:(G:V$;VBJ;(K6.RZ]%&2IBV+'Z_B9;1+_RE] M7/Q,EM9R(&]8WEFDUF_8UJ9S -7M MVW@MVO%E7P.Z$)%3')B:8+X!2PAEX M+S 5[ND*$W@'*7I,77>XW=?
[^3<9$G/.":+Y@..?)$#=&9H"PW4!PX L^ M>J9U\".?GI8":H;(?ZDH_(\D:.(] M"VCRHJY^%(XR\)R!7@=V&$6QA\M.S::05_X'/GT_ 4YR#"Q?2NNM0"D"2"GQ'R0Z+,0/A(
MWF07'#^@GH6%N O)7"T'L$Z985*5D)#5\Y^1:_\[67E<0C@7QU0E1S+H0W0O MACZ6-+18X4'(T@& MS"'X;Z*%2JB?L(*/S@:PS6!L)95(N47>=\@U&./%>5RD-)G0B$5UZ$5X0.
<3[]_'B M((U-S$SXJ!.?24U?VT!JX<=T6;V^3=;%G[KT 9,^ MD- ,ADCD)R#3G*(_R.)!E3W1]\NK ODP3-HS3%8'SP)A,#>"_CDT)DO,D! MG&")&/':$(M],;%8&F J6#$1815[
JI1>GCP;2#ALY.2*3Z($]_?%^+V/)0H M9NB!'A"D;H)=@MC$#ODA6 80HGR*M5.\79F0/Y$S(.=6DT%X3&XH0D+RP)A,#-&$ M\;FDE;>F,%B!>%_XG72A<6P0HUA$5V@.ET+ B4
7MCEFECX'\R =C<".1L+4 M@]EB A@[S=?!^EBBN2K2^\;)]+[> M&7DNWM3[FX!+@G6?L8G)QP4E05L_1II/K1"BZ#P_:3.Q5$PV4;=@NCKQZD^; M4:2BP_"Z.-RR+J92^\-
R95QA@EX(>K$KD*D%L5S!V,D=L8@!J&(HIPM!AF2O MA4?6_*Q"SN^P8\-.E"!V)Y!SH&9#YXA <_@4KZ8\%/ M(\,A-C8=XD]$XQ&XWP%V2=4HREXB^P_1=$K\ +BV]&UA\7$A_?
IAWC,=3,80 MY?F69D[*T"GH\A[_N4$9,&LW/@N_;5*&"2+1-UZ0XB2VF0-:V[EY!Z:A M:<^D;>AA0#,%D1-SB-_=^E :.214QJ20AC-S;A?+R_O4CN.,H8\A68SX"]5
MC7[DX#3!ZCER$FLF.1+] ,:A3\NUT3O2%H9D79K: 37^TN\\7%_-/T.JFU + MPIXNT6)9G9,:898'KR6%PF)_ !,CAWYU^<8X%3@V?/Z,;#_N_DTF1;]"N.)@
M4&~9.R7$KJ*-8^.A',:W8.)%#GR5F(K(2CRB?X%?L^H2+;UZSPL74R)V*X[7 M,>+AQ(@@2]>E"\K+$>)%EIAX7\@R)XF]_Z*S)M][Q\@G_:?@H=1P2';ZYM;#
M8VP7[CTP3[99;\@!O!O$F 7##8P0*ZYQ4W"^86RBD%NZVSF_9(LNXB44MU# MN4\;?:8KR;(@)2N)$ 4QU6.9G'N&!P$LT3HF<0H6 MUTE!R2E5TF A$[8.26 M;NIK4*E%UK^BI?
0*!*P'U4W\1G)X@PHPBN,"[<^ 0#,]BPT$8(]N' M58_@8S&N-!:[NZ)'IKL[%\14^\>>4Y!^$%NQ@D@O+X=.B&I*!QE'EBP 8^S< MCM, &+V;? 2$21A'=)*KWR)
3DR;,LRC]@M!G9LTY; <[H8 MA(F]%268RMZ+>9UXQ$KR7LFRN;PQTQHK#AT!E9#Z]!FKC-5. M:*1# 9U&*.SP/5[.J>F2V#+$^" :D(1/%XM;5_A79#TO+$44!-%TE@2IB1DU M1>
;T&!;HHF2.&-:M(AH85H6JRLX-GJR'6J_=VGF& EJ^_@%@R<:OYU6\ WF M#H!#)]/6J8CB_CF.4]$*AN3>I5?3P&+L/! -'L2A<.DSH5ECV>%XZ,+;T%P:CI2*I1Q3=A M^BG"_"
<2#B7K#+PN,0(/3Q_;B*1DQL1X@SEFI($@3E&T99D=,%LNG+;?G@&V/ MB:Y-0PFMV%]>UBDVRYEMC9LE0-]37,S(/$[->)AE'_@.%)N
MX:=0"!9A'[KD4"MIL<$S)19]?)F:P\3131Q5[>2:VNTM5KE80I$N:A-2;XOQ=D.X3E/;BW1VH1PQI%=-7<4UN9'"RD M?P@OV \B$HDCJZ+@/?TK9A-9'\DF*UEP WJW8P-W+;(N)
[9.LC#3G;QWX$H< MZ0LV\1;O#)/ SMP?Q&XDS MSQW5I5C-W,2^A%XFI&)^^!=/&#N??C@T[1+U?ZL!1!RJ)"L\;+"ZRPA*3DPZ
M3;P[K+CFVM[V0EZ)S[=&+:*8O#@;+8V1.%0>MQT5(5OU MB"7IIR\F+C5Z!Y'/\@ 3RP M]&F,9&$MT\#M,H1BEQX\==N/TR]^GQ! _/#&UDRRA%?M^*8R9?!->"RZ]YP=) M
=],,GGCZ?CL,'3^W_LO6ESV\JU*/I74+K9 M)_8MBB$(CG*>JF19WD<=LR.38*-[]9I'S*,IC7S,&L906= M$?A!2D3&'@7#\HQP"O*)>)S0OF:@N:%[,N1.L=S.(L=RDH\%O"D^4N3008T)
MR1CH=1QR!D.42/HZ2>WXMZ_B>$3!=T2>;'HKYG4E^FM3N8\2[!K<@:IQ^NLDU)*%2X2Q'I25T*/V3*ZU)L^Q$V0#&!.?F M4?& A_^(^>"2= [!([EC*AMGX+_ED@4S)(FY)
<3#OQ:.)^1CF$W)=/1[)>^A M.\!_)1)DX8)B?HA[(&V*F?X24<.W78T[F5KDYQK@+V6(G5-@??RX"IX7(Y3* M8VZ$2AT.M=;#',GAV'SS8PQ>F]#S(WZ(R8Z$5Z(YH)\3;= $*
M].BZ!FA3T6P 4*DIH@:_?8..E=U@3SQ]&P* B "Y60[B+%N?D'=+X1]X&8 MGO[Bs']#_XS@'A@41[=O=.TB*HI?Y9T$C45XQ'%/0 &*;S">,Y_+'E[(#5G$ M2+%E.#!
(E6AGBRS12S,_4JI12?0C!.2AU]3F@@G/&A#"RF2P6^%21^LA5C6! M"]M9M\?"]JK40('B4SE^GLNK&4@Q7I/QER\.A,].0_M,IV-F0%(_/KT93,9,6 M^1O#R *&IDPWGWA7[Z.N$SE
8E0$ 23FT3&7'X[2;U).H*7/F>SBVH\V2G1J" MH?/(8L(A#5)D9RX:N12N2G\#/".L8UGE:]&+[/P5V!4/3Q5X6+^3KZO^_:Q[MH"M'%\Y2%?(I[O$(IH:)T57EO8ONY"B1].-X_LXDU3
ZN;Q#^6+VZ0E+UOM MQJ[K+$M>[:UK)LY!,,\],)/X55YB/JYC\G\ (G]C4QPF](W%$=VH/,AUT WK M%_00.,0EHH &O0;AKN,!N$U-TA4H& &]2)=LWCTE6<("\AX[O98[_#'8D
MUJH8$0@6<\1GEA(P;$Y) 20V&0N!Q'[4;,BT>G>)8H=>H8^YX#2R5!;%8YJ.+7^=&=NCQ9<[-\YGSJ2!TY]CJ^%5\YS*9 MV6PH'K/AD3::,H[?ZT]/'GN*_%/_ KW(-
RU1$7QPKE03^I>)1B43C=032C3B MUN^J-"2M)M;P.A&!-><;B8A^W42$]-,5-1Y(_4).M =%03R0A=) M^&1ZHI>1GZJHZ#K%U]-)*JD45;!JW?!I$C7#R59=ZR-,*DT[^:*%HYQ:48 4
M\=,<_T_I<>OYO,;=CHO%#,(16FJI]2(CL^^D_HVJ!BDK-_!/DXT+J=,L-Y^ $P]%AX%3V5=+M)#HFGFZ7KJS\BM)K M"DSCU/QD81YCP#>U%=[I@Z=VI-9+?A/!GJQV/B>Y8'>9'V,
(%/DBW6!43JP\ M7OY?.D3FH__AB6IQCR 1<86+YD!+F"5=,:6@Z32<.8(8"J_4;I'16I01DR2> M.JFX;1J%4D?B)\Q5/J2.Q;-9%\[C>@O' 0Z)ID&*RSVS\8W7 MN."0^UMX$ON@_
TO@U|L&285Q!=ZA5$EWKYZ)8&- T+JUY3>,,L7;!&]LU MT=E+RJ,/B<$NLN\$I+:HZUQ-,7OJ'$6W&"_EI' M7D+20Y"(.+FY&SQ MLQT;2#'.>D6B*B]BI(; L,'S\9BR>HW]\O;E5WMS
17I @[@GOW_9YA' M8#:41\"'"8-?*C>^)=YV"ZJ)_O;8E/ /&:1.(SVOM.?T 7 FK<0-X5VF__9J MPU/B" UNH4:^+)HB 8>]9G/KJ(_WD6C&BR'MD@_>B?6$@ZP@EZE!$/^=>+]

M:;:X!T@,%Q-O%E\WX:N_Y#_7.LUNOUWX5:NI%GZ^;"D5ENIHI99:_KDVZ,A- M[7]3_95+K1E=MW(1;$728+8H/Q]2<)DD?KUP8 V099 M4F-Y-IW*5'.8H:MN
WQ9?]SS@9>V+7V=)%0D%FV#1>,]W\[O^J^1 TTYK<'&M-EJ=_&C!.LU/+S5F M4]++R=++FE' ^Z"7X<6UUAAJ6__E?0BZ67G]-(^.+VHK8OK0:,]&$IZD?12
M>WK1#D\OZL5UK]%MJS6AEXI<%T=@?F&TMLK:Q(!*LC@O4.CV"=B^M.HZM)!#M) M!.L?'L&Z6/;5Z&B#FF#8&;GOO][.'K(?8>]$_)U2P1+ M$&QX> 3K7UP/&ZU3<@Y+!
(L1K'_X:)V*T;IVHXWY.!+#3@_##A_?4H> 83VP M@>LB),\A=^J[&]!<'SY5J:R*OEG:W*E%(LH=_G1XA'KX&$6[=7'=;PS[57DQ M-L[[//(1_0U*?I+X4]1T^"M)6+Z[:D/#'&-)?
I+\SHK\#D]];:"^;J/5;4OJ MDJ1W9M1W^ AM6[NXUCH-6M/?D)PS7:@8"ZGNTM*W2;;/#[U"'A_8KIAE@C MOETEB-S:D6R-\/ O5.%?YXE.M&*9?
MF,^.^+/4G.QEK2Z.HI%%K]ML]ROJA-!M=MK%7QVP/0-N:G6CCFHJ M[FM2X3O+[-\D'IMI>VTW+;:8W7?]D* M\KOG^OXM[\=8VECJ8JU:6Y6.0DEN9T9N:]ST&Y);GJ)Z%]
<#]6A\#]MF7=:: M"/XHL#IDZX1S*=5;(T\CY(@(W?\6(TEI*=J_N.XVNIVMJ;X^*5>2+$Z5+-;(MO2K)8H"YKL-673(1UXB\R\$\&V7+J6B73YV529SR[UT!HZ9YR4]G+>I03DU
M=E1TQ--A1Z^P>F.'>VF&A)FKK08/F M6-0K/N 1&9XZ;'DT?LF8 #$R/YX]%+BI^40\?A/-@=IT$#T]@H&O8QM!@8%^ MRS$\IOOXQV(\7WG1TQ,,S9 &J$4_(##-/-
<,C6#93!8_'/V+P=?P,_<99VG! M[N-GO624$!]# H@6;Z4HDZ!X/W13UM3B,ZWQ5_"GGU]QT?;89+74%OD_Z9=5 M7?/!A]'<4!;'(0?2(!UQS2,BIL)Y@P>'E/*"PO*9'118?RI509CM^-
==Y@!* M_#[^%S=X#Y_AWS>!R*9ZG# 6? !.&;/I7L*FNQ?7G6;>[:-,D0AQ0%@=;Q(' M>$]<+[@,F#TZ6AD7#:RP7DP#Z_:+/?73 I8\(YUL :1EHY.VSZ[^.O+]<%VUP^5!;X?PI^I:*
((93/P1 MV^K_$6.ED^J]%7%4>?N=UO-MMJM)DV^U>P.RRVUA[S]*C?5U4S#(^7.ZC]P\[!3:YE'^0GHTG%'L!^RX7W%A__UQQ8S947)N:3. MKVNLN#(E3RC*WV(]N2@-#Q-
4VW(0FJ2%^M/"-NFI!;10+E^UT\(9:&KKA-JH M2U(Y65+9L=3HJ!?7W>UK&B0I2%(X='_'4N--G:E'JA'4I!X$HZ*VXGN/#$_MZQ3>RNUP:$-9_GZ7[H!.LWM<&,W\ -
@-50QXL*I@@C//,IBBV[9K1-4$LW6. M!)XW;[F>H)) OTJ)E-MP&O+[O5F]52%; M2:6G@RV^M&Y=IO5(A*R6#]:;#7;!-.WDN\M)-E@[K-N;&7<@-MA#-JAVZN(F MJ6T4C5>(.O
VO)9G'KS.9A)=)A'N)6UB-B+1\Y@TO2Q699B__)@^ M7XKH$9S[$U]!ZMX>XFM[C"XMZY'!KTJ39?_B>E!%Z[3E&>Z12+A67:X;$@YH M)/J@=T)]@206KHN_U
T)AWQL5('30"+A"2#A$I6Y9EC8;0$6HKN@9HV@MG4N MUUHY?N5P7W'2\VQ;7N[P)\1'MLE!B\QJW/W8@]^582>O"+AVU8K&)>Z[9IF
M+4@Z/2LZW2I2L&\Z;5.>$NK-.R]L/QY4O>OWPWJ5-AHYE?&\Z8IB0Z#9#?&.JGNH6EL(6 M\@!L2FP$S/Q.O5X?QIPG<-I=,N"WVSV-4;ZBEMA/I31&+7&9@ KF,8Z*FCV,
MPR#T6+IY\K)T1^JI!<.SH9,$?S'G40<&I=OV//.%*%]FCAD5+GMLYL*3L&N1 M):<'%Z+9BAI[8&[S"=9@R9[J'6[*9CU.) M1:DU?/FL>Q:!"AM^64"BO)^3'@2>-0HY%.'HGCO7;?36-
G"55-#:82\@O=(@ M8+^89U@^[U0';\CWO3V9IL)X2_&0Z*B3-H%LQ /%?V0G??@,A($'.EX(7"Q M_PK-IRGC=?;/KOW,\5V@&J*@0'MBU[YH+VA4?17TL;~%H+K+7I@?LM;3#CDE?:?
6F!,O.FT%NUMB%*VK N)#U99KB<"WWO*:I P"Z M9SI('H[>V\O1CXQ "Y]ZED,JI7'J!-JU212Y;C#H\(YBLF?75NIK]FQ+3L: M(GYB'MESG:#>[ZWVR&[D;RGM6>WA4-E!92,
<#Q\!V6*XHZ2WLZ*W?B7TEB>I M/@Y_E 0E">K<"&JP(X(:2(*2!'6.!#6L7",LF >:(K3A!1#5H*VVWYT#L>W M:2D)5Q(N$.Z@=0!3KL>'CK>.0%*N\?
U4Z2633^WC*7FA)_;4SM+8Y&/UB1RL M2WI+&K<&XZZF=?Z)@S&/*-\F M%\&@E)8O;L"43E,IER1WIWLHX+01]'&B>P7I;C@?6 "6F3>!^ Q7RB;!?F?)XX%&7Q3O$*XJ5I!R^KQQ-
.!: M^T3%][H/2.O 7=C17?AX;!S?:;C364@C-^<',0R*9=QPI+'X0O\-W\#V)$Z M:'CZ$SP0XMQB/DH6%J/D*EAMZN+Y -D5-PS\0'=PQ0;E 6):5@!8C*_CC^@O MNF?ZRALT0-
NM=]\>;WSZ4WWW-IWZ!3KQF%F8)M94/E@V[;?$<;8_2O1Q[D2X MX^*=-I29'?K8OE)!SHMXH]OQJGP]2F0)\<4/5;:P%V7$F)-]B>[[(2;1PF'@ MV)C/-@.6Y&"27>$.<3PSK6+!#QE-
#A/36.,%?&:$'A7"-Y6\/#7N4*2!)D-_ M&_QYS*ET(/Z"_1(#=RC9C\; ZK9!#:U O8(@O5%QZG"@749':&J=,[#)6;?X'$^1#?R&-](_0ZV\ACW3HPY0#$1 M?C0R1*8L)[(THO.FK2+-4Y_-
(ZVRQB)VDJ!7(R]-"/4KN1%OW0F$2'2%$OP#^#I@)_FUNDVS\: M$V:&-GL8(9$"R?XS"4LC5/OUZ7[" MQ;83N,#%]1OU;=;Q7HI^U]_7\=/?FBZX M%=%?
GL2&%]>==GY^Z*OX[":SAL[]GM=T4=T!GUV9<#YH+4\XESBP(QQ8T_AO M5[0^4"6M[_6>UY03[YW6VQO2>J6CO+2:.YCXK((U&0O;F!VO\CX>/?*O:^M_ M$(-
BH(%AJ8%%T:^587FF&+)_56@##.G4T0-UI@A21_SH2@Y2'38^^#_9F0Z^?1=HN;6CW5I!X5'U_LUNL[U!2NDRWV[+.C=OMUCII@<;9<$J
MP"T"W<(^T#Q=^D4X::.D?\M!KN4PSM&H43,^=N\X[K,>A+[RR=4=D?R?E"98 M#N6Y3N=K./#MS\#<19KK]E M@QOF,:O: OQ2_]V\PJ[3BBOL)C%7G^E/ M['+D,?WG)34SO-
+M%WWN(]VEX0) 6;B',B#,9X)?_W7D_>6ZZ%0U2BI?4>/7 M+5OC=^\\,SYPW;]WD#)N').GA]P[?N"%],VM[D_@<_P?_.X9Y#9\^H<#UV-C MYW?
X[IOX\W"*:C=Z83WNLV2US0(<1!;/T5;=/(2> I=W.4V.Q/B14O4N5)F518>9!Q@8 M,'NN3)AM4G&$[N"S*"'<$#M6ZJ"[SD'!!<8!+(*6Y[1 '=#1JE.L Q\AL_Q
M204HA5S8TL+;/KLVPYHN3[D!I)Z.;.KE?^\8S;C<[_/-?5SMARO[[-_F&TO M/"4^C9ZD405^]G!4BF88]#N+FK_:BC6&)Z>BX(^6)P_8= \"'IJ#&W>R1YKC-P17.LS@0X@
M9;#X.=Q64BL'__ M0 Z 3^K61+&3#ZR&"W.O252\]JK3IQC#QL5]X6 %PA4/ M'_=PDUC+Y]/I#5OW?8M&1" &P)U]8L_,5MKQ0(IDH8G%/-TS)G/E9<) ITB&
M12P^R8^P<$&A'Y65IL 3@-+B"[.+@PI ;O(B3AR ,73R\)L7 M0$\,MLAN;R/:608<+0^ U.K\G*&3.J7E@+GG\YHQW8]_C1A)5Z:8(9%0@G!T M.2^X&'QU^836B@=O OH1U&CJ@2Z*5
%*8IR&(.<&_5X,1< _TY-#(A EA\5_ MWM)O@2^XMLFG=< IJ&P4 /@#:,7\5^@'HE+3\^9XR,W!^3*QX.Q)@6M\=!/'
MAD2(P0L)^=ZCT2@IVGHBA1<'BI",1%#J=&;709#!/BQ4Z.!2^)FIYA5'KC@^ M:U#%ET#JT-%#'T'D9,D!DY3[_B_P7.J],AO_A:(NS3&9B0HE_2D-$/$;%;8Z; M7 9A'K8H"GC1<
%'O[EO)#PZ@?):!* R9]= #I2]\X"*6(CU6[^4*2_>8)GB M#3ZAXY!C37!F ?=+-S%P6_S1V:4T.O'J]Y_^9B9IPYB)]&94,%-]*4?7%_X MQM6%#REMX2.PL+\C8[AQ0'NT-XP7MA)%=
[#%X,EZG&"XS4B^6AQAV-IFG'8] MC@"6BN,6N$-+?Z!$MEI. KV&C^5YR9'8'&4[X) ,*'732P;#89;HHND[.=- MWZ)A;**;A;]<7WL:-R%=^E^O'03H^D/KS7;;;
[%148=YN==KD"ZCU4/>.F MVK+J>?-#%=>C32W3M-EAZM$RW/2 DWP."8,/S"0Z'+= [6&8Z6"/% M^=W5!*YE5]XCC-D7**?#-0,?7J&IO"Y(/]0NKGN-7D&!4=T:]5:02")I4-)@
MB@;7S(C8'PUVCH4&]UU@=@@4$]$I6ICA M],SM"*<837$2A%I4"=$]DC]/:9RP+(< MMT1&]AF9V.4.?SJ\8DWIX_X4N"&6HO2W'T=5ZB(/9$)(Q[0DF)#@FMK2?9%@
M%XRY(R'!*@K2JJ]FK*RTZ@!;RY96+9EFL\U4IXZV_52GO19V],H6=L34]SG) MB[RG'-X/EF_8+GZ62U/IMO)CE^"S?)H*K[0\DJ_?4%&:_8/Z;=![YXB_G@ M?(M2P'$<4+[(I-O*9]K
9_DC+,EU$<:@5=$DAE:SNV;HP0%RDN2F MY*:JWU2O5+YU_4#V MRM\8<$E9KT+%O!)TKP$=+X&6L-L8=HE%(8&V,="P(I^T:OHC59M?6QBN2*- M%M]YBXO-
/R8&$&II@0%";OG$&%')-M1DN")^8[/-4-R3?@&$:BT&YCRC=7A MUJDT,M^X7GAUGM0DN@A+W)6X*W%7XJ[$W3/18CI2BY'4=);4I+9V04]=24^2
MGLZ4GM9D:.7I:=5LDVZKMWRV2=V(Z1S*"7E_/O5J$Q?NKF<+R=_+WU?R^P.T M\U@(>U_B\U=J^Q"96;S1A^NP>=3X<@Q'+0HCR,JAK*A;-Z;B6;=LRC5VO4=] ML2];G *
&0"4+5A:S>3C=#O;)R'+RK03Q"_#"*+5N M0NNN\$J5>'72>+6FS]WK\&JE#%17#/>M9=N J)@%-LJ6HZ!\JCY/[=MO>;!N MIF+RRD[F'/2:W0WVL&P4GM8L*/#:_2B\#>%VM<87=
(P^/_G[_Y]13[?C9O? M)D?*C':G4Z99UBZK;6@]:4!(_-J#2U?M MU,VZD BW#N'>U +C%GRZ>O@6-&KF.[3:)Q?90K%JLXGH/M'\[&I!!
[UG);CHC:DDC5EJ;NV=[M=H)9A0].JFHHIG8VGA%_5 M&[R5UTU+A*N9P;LCC%MK\%+5H8SLUA^?=HI.E:F1 RX8VZKD4R>)5SLI\5HM M^V39X(GCU('*N[16S7A5E9'==K?
FK6<>PU& 0SRW">MNT8SJV&FF9.E:U0:P MAG&23J/7[M=^8MZ>'902)^MB-&O5U5I*)*TQDI8TM'>$I>L,;4V[N&[GW86E M0\L2!^N(@SM%P^%
[D&UAW4MF<^IR:4R_)E#',7S[UI<;_3XVINW%,FK#V MG7G3U'RUC"^D-/?H7USWM4:[G8^@U:V==05.:TE^DOPVGERR=V]/Y>U,)2W6
M!"O/DQ9+N;5V1(QKG5K#+9U:DM3JA73G26H5#^S:3/$LJVMV6J1KJL.M4[0E MT=4+_23153+7:T=DATV !XVN'/\ER>[\R&Z#\5\[(KMV57[9?0T*BW8@H*W1
M\)]BDMRT_66R95A-,=T0-/CLGM>L(%]TEB\BC/Q+@ 9?Q4RFVVROXS+MY7V1 MV\W!(?HB#S;8\L6U\GW"%&!BH4Y\,6#&Q+'^'<+ZH<],)7"5*=7H,26 !\>Z
MY='3\+T[IH]NW2GL>DY.J/X[7Q']J96QY>@.-6RU'#_P0N*'N*@/'\Q"^#N8 MZ(&BP\K,@H4\Q;0\9@3V7'$]>"3YUPA.]HRWBLR4WJG[/@O@+^!X3Q- &X\# M'/;_ DM%$\!,/= 5/:!?
B$/@)O!S6,(QX^7,T..%D=*-AR?2G?@\JP9.@L4 MVQJSIK+03AJX-4H1R^& O([X]Q=8Q[.,S+PT<0&==K./^:IYM'FQS& 22:[4 M#SGWO6HE/]%'P-+#8/E/ !9/ED,$-,QJ)@:$=FIG
7ZI_TZ\A$D\ MJ7+/+EE);33 M M2BVU_'-MT)&;DINJZZ9ZK=6;6I/@L%I1RC]78(-R3G\@>ZQ?:(]]8 :;CD#H M:VI#:;?0FYXR;+8"29'NN-KV.12L%C6T8E#%H7H%8_6;S"Q>>^[S
%P2T%$P MO+J\M80$W0K083!L15L.";M%V'U$&^GO:"-)H&T,-'2GD4U&?Z0<:[6%X:;# ML7=N<6T&8/).7L+KITK*/UDP$VG?<\0/X0U&))-9EC(&L#P&L$$$H+1O7[NX
M'C3Z'9DT*:GI!*A)9!U*W)6X*W%7X[$W3/18CI2BY'4=);4I+;7#.-Y%3UU M)3U)>CS]>EHSH"!/3RMKH3J5MXNM455<=.S6E, SP12KS9QX1[-R&WY^_/^ M_;
[=XZE(@ECB$I^_4MMQNM*^Z?JSZ[!YE&0WAJ,6A1$V;0%R)MT^VR6'IE3= MN;#3O[CN]AI:OR[S"'O0)B5^589?E=>E=RJO2Y<(=Q8(MU![O3G"R7[9$N%V
MT2JKVY*2\Z3QJF03BZUL_[Z>T?%;3 1MER%)1/ MU>*:$GJ2|T!-I2E[HB3TE+_3$GI(7>F)/G=4$JW(MJK?O|%X[&R>V%'N M|*=C^RZQ?/?9HKJK75SWN@U5[=6^P7T%$6U)?I+|-
*L[ZW7Z<%E\;)>V>UQ B28N2%DM5P^RFJV>W)51273G270;%SW2.7HLZ^/YAB6U.+ MMUTV/&;"GY[E_\2FS:YA40=EZM+LAIYB8+4G<_$C M7!^7M!SQU*5'6TR]N:G<4+?
KOX4.XUQ,:U'3RDZ#%HEZ68KO1$/+!@< P LY M8*C;"O!0-.SGN)9NVYG#39@-8-%]Q68^=<9V%=ARISIWF*KZ5=CP%(FNR_4 M^ #'Y[>'O;L9;\+M6[^4*?
QTXBL,MFX2F)4(PO0(!R?S#+0T:J^UIWNME,U]>QTM]VRNUW'77>ZVUY5=.(I+LZ? MN$2I"VK'=.9ZNC=7K.E,MSR:&"'(!"=$@-)2K)\TUPV$0+F->[?,-C/[JLFZ
M6E_KM+3.8&2:_9;>&K<&XZZF=?Z)C0RV%?;5R_1<7U&2Z5_<@"G]9L1"Q+B+ M14S)I "\UVUDE(\3Q@+_ PL 1_SO\/![VS5^)O?;Y_@& &3F32 ^PZ48X,(M@%@N\D%UV7S-
%8@60$0C+'!W 1 M[P2N9S$_=_[U=Q41\,Q869HLX=QM-[\-O0\".LDG;!S0T6[Z@6P%NIFJ9 MA?#P+1^- #$/9NRB<$?5]0V8"<'$#>%5IO\V[FQQ%.,[>MUFNU_15(-NL],N M-
PED#Z,6<%/MW8U:R#UVX,;:PXWZ/F>LJ0TZL9PB#+8:-G$2#:^_Z2_H?H ? MZW:NI?JZ@YYGY.!-=0! J<\11A6$ GK#BVNU-:A](ZY7$KWL:B?I MYU59)IO23[]U'/1S#HWL?
KC>3[!1+F>>:S!_^4B2557O!<<^P:KW384'0O3> M^F+# "Z.\(S[*I;7WMXKK=4-6J](,::-$2A4KSR.U0J(,H!'IF35'H MRB):5:LY-Z4B6J7(/R\+:F4VYZMERA=6NE"VWT4VT-
:VGC\@9$E M$;.'7L(>^L >FFJ..2@ 1!O^:$2[I[1@8#V*#RM4O=L;>L=_PRM$>M87-_BJ M>\'#^(/ESUQXY>_ BV9%^Q]<7+=6[M @\2 M2BDDF\#332(?@D,"H"
(Z='E'[['E^4'\0VSBC4_#C;I96D2$X,Q%!])%_P\4"UB#@X2,*7/>D8-9VQ+,'*0Q.B(TF\K7%+22V!T^;UM3Z]4.G%-7IOHO M:QI.\5U_*E?
SE@'A_9>/>5:S"H*C)1#\S/<3B=W'<.0;GC6C7T^!X6YH)K02 MZ&+$K-L QI"#,!YZK%N> M(IC-%5"#X +R[EF+HG.,_WE-0!_-/#8.)ZP#T(MDD\> CJ^#6GSO%,C/3>ZAM\
(67W*B;JO6 M)T)7.JBC@T$^2+,QHH&P3"B?F<.[&_H%(@;W#+P>.[KJ&EBF./ZM/D,K@P,) M^_UZH&(# G\, S#M$&HZ8'EI>%$]*#?:Z@%4]Q6 DA_UBV;TL;AEWAQW<^'UN/T?
6)8):7L MFB;!&^]-PSZHG3R-)9L#G/%3G@ CM5XRD,7C/@B4&RJ6PZ*Q4974..4-*5PSTX#Z1+^O4[S4K^ MQO?N\KUS99-?8^(7B1T6RD1_9BG5/F#>-
&6++O$5=*NS@NY^S2P^@&F%E^#% M!81G3H+#8&P&S"%=VU]T%Q "(Z5P1'W525ZCX=!__@[OC3T>ZF:' 9-NC,9$ M\6G&GCLE:HL,7[K0!O[%C=VR]FQ7VXT]FS[_-
T1'7]BQ^A,K,F4U,K8*3%FZ M.^$ 9%S8K+G$#47=+B\1C!X7Y!;>X>(5-@@C2U]3IR;7!&9$?^DUD>0&-E(@ M$];<6>?P=P;F!-
=#"BFOJ=P[RM]T])]2]>4K'6'"#XT=$D7ZL%,6L]\4*T!?U MS+.L&/"FG'^P?-(.5H-D!4^K5!-M!+=?RJ5JO84J]@]]BIU4Y4]J1+[3L M-75
B>WE\V6V9DK]P]\9JC8O[A*65)FNH^05F%^QN "HZ(FBK77_\ 5/25 M-R*"^.WQ#S^*(!Z9.OX#]&O;C[R^B0Z.1VH(=IGHXXGB"C8HI2U&?D^2)J4) M=E 3@M66\%7AS16^*#\
<_0NLSLC<1A#%XA-M]BBT9V/8S[$ 3#Y*9[%(]&3D M%::!LBBA&N@>IA\;&/3@&0=/C)SPZ/<*X9OH8A#+U/X[\E+B*N/HT>C]_#@ M"=SO5)^+ZZ4=TTV9%MK$^(ZT_/>%Z
0$HT/"_YXP4?-LD?>Y;!'E3LP%KJ0/ MR$;>DQO;=@WZZV&<^$=SG8^ <0^Q;&XB M.'0.Y>EH**$),/-2-3;"Q)A(_1&OZ#/!"FTK.8S/.NL\U%I_RM;DHITZ<7.F^?IJJ\2 M-"?
$1?:C$_>QY6YO4-7XD"HNL=X]KR7I2M)=JP#LA70'-,EP^R"W)%U)NN]T MXP+&/5 N=A5K#+I;9WA)RI64*RDW2F#>!^GV6C@%IEO0$>FX2/?5(QW$@<0U
M==K<3I^YOH7/7%$G/NN9):6^OV4+LL5)6\E/]!&<*PR6_Z2HACM=<'@(FY4 MO-)U\>G_3N+1(#/]B5V./*;_O-3'L-DKW7[1YS[>0?J(<+X%D):!1KZB_?JO M(^\OUT4;7#
[EH5TXY4&[>'7)?W'?BJ2'")7!WSCFPB?44^0&FTE:P?P[HFB^ MZK^7FWE1_ZI_:I9,A?C49X)J[F<>\ZEDGS?%7-<'4QG-%>S;[P%DE& ^8Q6V M"9"] 6I>\2Y[VRZ*=D;X*@KX65O -
D;0/8&D'7=LC> Q"'9&Z#:1,5TZUO9 M$4!6DJVJ)-M+!+K7QC"6NOU<95FK62]?N*N?%RENG51V\FU(Z"@WD%Z$F 3=:QS M\Y*A 'RRBDZCSU)3 6Z63 6070L*Z&DOQ0/P%M
)03S6I$A45AI7BT3]O2 1 M3GIM:/VJ\M@D$M4+B09[02)*8^[T\H-,)1*= A*]L@E/220:$A(-ZX)$^PXE M'$P)_,H\NBG'8)>I@3TYE3#,S(GZNG1.E.R.D">A_BL[%*5):&S]8N;E?YCG
M%E /O."':!BJUW]6DEE06)%>+056UU82%KMO]K;FLQ)):8DE5G2/[&-+KR X9 MIXDE>XD*]REFI5;6P5=Z[6.,BW)!%A. '^]7D9W+ZZUO/?WK<24NF%*.4392_2@3]$#K;NUBB>1
MJ)[L)A<^V)K=8*B@E8_>[IW?G$.2[]WCUZ^RW>B*I*]6G[W!Q?7_:HF)$@[MMU9(TJ\@^K7:ZSJ47M>3QJ!.5?,G!BT0GAWI=3U)+.E7$"!=R6<&:MWXC.P4 M*CL?
R,*L];"C8):>AO#'"%&M)0X\3 56!/-^:SY;O> M7'EDWK-EP-MOGCQ&K1*5%RN8*#IA /,4]HL9(78YQ0Z*V'01\41WYDWE:^CY MH0X_@"7Q"SU:4X^6:M#GL()G6#Y39G
@\U\2%Z?/%%Y#?IO_.5YZ9GR131QDY M6'PW2R5@9_-U7G1XPO9=6"U@V#2LJ6 'RJEK6F.X:2(3C_FA'?#ND;JOODL
M'=/=/VXQ3ZBZ2VHUMNP:VI2RFN3O^WLU(KY>07F^[^7/[VB;,J&_FI]$M81A M%S:_,\-]<@#[Z=;\]9,'H^OS8S0+J,$>/NE;OP CJ+$H(M7$_*7]'N%HRB&^J!BD?
F({[.W0!T28%Y'5TT%(<%N!+^FXH> -!C9@4AT%># M"+$. ,IPMC!Q;5:A+)*@IPV=9D%_A-/.D MJV1)&PD93V"9;6;V59-UM;[6:6F=P<@T^RV]-6X-QEU-Z_P39]>E?E03ZL^U
M>"/JA_MDRK"IE&Q@C>"?N#8H5/[=OT,KF.,Z'RS?L%T?2#K?C7K8RK?.'K8N MZ0WYANOI"UG"M_BJ!>]JUZ0#-JUXA:>TC UNZ'Y2A(!/BQT
MI:L;CA5+F(]"IJZ6I$3=.4&CD2)J^3Y\V!MV\5Y$.6_8XW4.?!XM6U$ZC/>CD M#\3WW$!]&24*%7V')2$&9R+R[58HP<^'H JS5&&F9ALJ'4WLQTO2$\W7GB3=_?SY-
GONIS_(QDVP+X_'N'0_B'.,@-/T?I_5<\ M11$4M=6J]])SU?Q8F%_?'.;S7?.H @891Y<&MQI1-31T?P(7[QJ,F7YY*ZI8 M^S',7_[5%Q9\%>M^]-SI$DK(:2E#$.*M9KY:
(-92RBMI2RRI)K7;9PUT6D*/8 M998>F_43'"6%X2..\HG_4YRC65Y-K8LD&LZ6X8P!'(AV7/01=D2Z/"#6*<&RT-G,\Q9IX7 M63$-P/%1$(W@L+AUAVPH@+]FH6=,@ $192"N"F.'U[Z/ ?
&5 .!-OB\'7[#> M75 10'^8NAZ*!'@3; T,@ < #1MYH>X1./LI52$"ZOR,E-7 ;:"B'_#IWX(/PV(P.RF!:*;#,XR!0+.8V4CH0079"/@ MVFKC:: MNTHN:#.W!9S%N#)#[\4%HY4YR14-
+J])W4Y9[JW:!C%3E+:*_>> M&AS@PO*4 8"QR/HL/U?UC2R@\YF*/IWW0ZCX48^<##42M']6AHOAQ?7 MWARM=#$(^N1C\%]&C269.?+.IB^5^?,1YFFA1TV9Z1ZP4D35Y##1
FF8T %? !T" MYB PDT"&D'MN:KF"-\<;)[&,BQ*_$XS,15B] ."(WQU4,RS/"J1_@XC[" M,'N30#&^:YNH$V0"0G0BG -'_*7)(*_ [V]EM%^ZXUSOD4<"-F>[H(0*MJL@ MV_5S?#?9Z)=6)>
()8KCIL>7Y ?)-6T>D3K0(X"E"H6LJB/XH&@GI9W#-B&0Z M<3) 2X$Q2YDUL-(1_+\6BNT&1>AG&=3[SX+<+N)UR!*,E/C/H4"BR[?P!'A(L@R-DLHAB#>8%NQ4Y>G[0. MPK\
(8ES$E893LN2%2%G#MB^M\J=]JP*7$TU+"0;Y54>#]SDAXVA&_U MAXU.N^ DR[%GT<6\,3+AEV2M&PQ^:@HF^WJ?XX;&T"V("\L4,T2_B9<_.-\]
M8&;\-20O\N9/OP5F>7]_+LAJ]@QVZ]"9]P(G#DF04)7 .4;/,MLNVC&%H_/" MN'HH5[5CM85XD2]VC'<,*I)#IJM ;:ZEBQO0)>S%4R>B5/L M8L/)C)7?$AE%,;YNF<'
U^T'XA)=FD2JWZ/IW;?32"P?Q M0^(@ZPQ:[Y2%(&_&V74+0MWU%A_).I#%,Q^N#J]/F/!GQD[D)CG1N%U%CN'8 MJ\Q_4^Q8YM_RHR>\M5=VN"85KJ2X*>6B[:L:YCCLR$5;?-F-
Z/.:.VZ)Y2\2 M0Q2>6N(N2D?\HK!29,S0=C*^29[@)DZ^U'_,D3@7[G/YYM1.9#?]2/E2%CU/ MK_.K##-Q^:7>N<2O\I$QX4@I:;'RNM]QCD

OCKC^(81B4;YNT7X.+BY*+D\4/BO(24V6)_K.O. U.:KB+07O/M(C@&[(,H& 6V)Z"&0NPN/8ET3 MG,)@386#R !C4GCE?5C3L$.3:Q.D=L C@*B12Y[>H;@CL+'TI)HI!^!TNCS@
MX:6!1JO-^4UNP^0LT[',Q;;=%U]Y0Z]V0P"9Z;^]BBZK%/71R=!*_H[O+""S M?@&J]_-D]E>JH$LL5"K7@WNW]9G/KJ(_WH'Z/;/U^97ET.W1C]X)9!)F+1IN M"]5ZA%[\Z\2F:[:X72<:
[8@WBZ^;\-5?\I]KK>90[1=^U6JJA9\O6TKM-COM MXJ^6+;7\RGSGBX3H3S M3DX4#'14$G1"Y+K5F M@1:.!;NXP,7U&W7)9)1U%W:>;6K.=G;ZFL:-
,37$1FC))C1]%0OV&RUMZ_Y1 M.Q^;7D%784EZZ<%&D5@E&XI=4=CP"@[Q=]VS\'J7 M,(B5%3#M=J6:P%9;6=-+IJPYO=5>.M5:'UOMI7MQ[6Q0I+1!&=.SV$;:W;9I M;?
6QQ+0'[:;6'U87%%T=D3VN2-?23)@E[MG%](RK$J&.HW"])PYHHDQ_%VYX M,;?H\+>_\JZC#EEQ!S.>\9?XYJDK :;84/%X;I!G&0"]*FY36RV_.+-HC1Z_
MT)#L6P1L^O([@%HM+.E'V">" :L.DWY9<1V_J.[?!I-73N Z-DS&&@0< EL]RUPASWC5#X@X#R-P#RBKSW=A\K%*L:3;.5P7F8&_DM3YF1 M=784^E4/S+1^#=/S*LV$:\M,N!KE?
>TR/Z&D2GQ+K3UUT%<.5!+#Q[L79SIG MDP]..F%&YA<=/K_H.-3!Q,2CMKQC*A6@&M;%@H(=A2IDG*:VNMC.8J!1^X72
MH9H!QD&U;KX30]U"-3(.*NGK@''05Q/8$&.A_7[]$PV6#&++5L[*ABIK&JH, M]MI0Y76-4J):V9*%BK[/6)8H/EGZR+*M8/Y9#[!IPGQ)$:/6RI4KUKZ6=?GL M+NS
,14'5G1'M^>^);HE)QM+$\7KBF23[?W??LJVZ9-WA!JP@(,[/5 M$S.9ZDTW;J#;RM1RJ.T\KUB8"69W2%FTA!/C\R(A+Y6%-R<:NI=P9R#(IL5(22Z!E6<'5:6&6^;!?5<:*-#4WT(!=
MY^F2FE3LC'%($W1WE/8%Q.XKB4T%+;'54(?YX=)';6]RS!C6G.RXXW6%DB0- M46F(UHW9E&8Q[2,W1%>UT#P=.S1?+9?N=5F'$B=:GV7()P K11N(AI06+82[,=DSL]U9 M-
,WXBAGQ7G@](5X-+QT$'7JV3'C'OT/="8!%T&!K4P]HOK;N4<48X@4?FFDD M^-94/H:$X%'X.PI\PP_'-MYE-*0S&NC.?LW$%>-\;#ZZD_#9#>!W%BIT*>LI
M@\Y^&I]3N.)9_D]"LC06CN9*>-P5DYU!4^U5V$VTEMVN:KDI;692AC&17&D M:"Y)Y#R'6,Y'W> Z(R(2*!04[8JU!MEE2_IS5G0!&J[SZ*#VFQ@%1G/6#
(1$,CDNS5=Q7$#9A,EK@]>J/' M<,]Z\C*FS& Q2^R;5M&Q7QZ@$1R97H2(,=&?6?9$3>5W"BMD=H$1#-P!PMO# M/O!P5LO&%_I.WBM#;=@;CI5JKX$?P][FCK6&'A<-J&^-
@=:1^_\/I+H3(9& M8DR. EUCW?*49]T.&>^=.,_$ %ZP!Z(/_%L)9RXG)PO^3:8]/JX\A;JG U4S MPFC"IB@PE0H88)XLO-L ,G0]X";\3R:X CG]03#I 7S)416Q#]>PLK?!HR4^ M;JVIW -
P0V.2^JR!^TT";;0!A$"TRIS3IMA'LHW<+N"G\'8_B,\"BT;Q+\L# MKJ*9$>!, ML";!Y3+L"?>^BM.0Y@&0@?^4TW1YR,R;0'R& MZV0CZ+A.?
E;L0B2_J),Q7ZS@%>V:A.5+*P&.^ZP'H:]\DC]=U;DJ[$@GA- MKPO2Z$#3<-IKY_"IPVX1E=R#4/="LM"9-RV43U^5-V*Y^"<)\N$^QF,JT2+=,UGU5I\A92M? M02MS&.J7GS[=-
H3DA_T^82)-0%E>8,W,T/*-M;1PAKK#(='X3^64LE[&";4& MR3_J!HN*N86FU8L1N]NZN.ZTFOG<5@5.:<,?M<1E0D9"*SUI_VX*G%AD:L,, MCF:Y>H197']?X/CH*;#\@%3^I?
<3@.5C3-B:.THISN0IS-[0%YK'^##^SM?R M\RS)":P-:@!/P/$*R]BP/K!KQ)1WN>#"_7QWF@UJB M'1_FO^ X@I#&\+D% CSQ*8$IR,!BL- \!.YF>OJ+8J)IB2C@8ZFK>:0X,*@.
M!S0L'SHZ'" WC&Y,+/;,%C.!X7U@]KL.\].YG1Z[]&< L[$%>./!ST"/ 40 M,WCBVJ;?5$Y%J:7L6M!7J!X)S'T:!#*-N_0&.#(,;/ [BU?8?]&G_0276#= MV52FFJJYP[,1X<)A8/MO]+=T!-
!JT)M+'UEO*86=\3/.PI%M^1/NZL='/P-. MS)5OE,,-Y!^E@N-7/W3@%X^!AY[EO[FAYZ!V!.SAC05K'E2[3[\4!>&E]>MR M8IF ?E=(OIW20XX7Y')G-?.X%VB#4'O$
($IIAOK3ZQHP'$7FR ;+@=-!BJO]D?-Z)/8]9^*7KP+_B,@<08F[X-$EI0J0(M]0'>Z$9,J;V;O 1L0B^P_D/"0[RAP0T-7"$9PQ+U\1 G2HQ*HB3NS>=AP="A MB<&Q #)!\ (F1%9+_
7/EQQX3Q^(;:. 8>%VXX#2&12;.J,6;G7.2_UV= Q MTVNA7,00#SHP_$5/3%RMA&Z,$96[8'R$*F\R]R8NM*E\]5B,6W$<5WJM,'P3EMUNMY9=_
MAV_]%KWS(V.K915ZX;7">T>T+;TQM;J-8<'MTHW!2U!T@*X&"C!=^DJ68Z;T MO;0_\L>''?QME),(L>BX(ANAH5@(15>^R^+_YCKY\X\]J=3STNLG6N;.2/\. MMI(NA#*VK+K%]!:
[3(C: OW0F2/\EJQO&9=53[P16E8A\1FEV^8H1@=4T1 MY>"B>7@QE;CR0I66@14'NY\Q-1Z%2[H0-%["T+UG0-L0'^ I,VC)(:3C?)5X MB73XT[8 *4T^"]%4'%#G00[7M7"9M=3. M=?
_0[IG\X,U:ND4*?;B6SX,6V'N-XO]C(#9*_$*%!3B;2[YC0".@5)'<(K#K MS]CCS6=!)O%-3Q7?XHIIQ3+@"5HZUO;R3"Y:%3Y&/=G6#>21L]Q+"O/A3H9G MWA./=(3-$]-
D.H$H3XD498S3S'00>J- B1K4'IH<=AFK^<,1%@@S/XCC%K@M M>QW4D/+S3;;Q6NX<$42.$D7I\'S\4F,\,-PHTG(R5YN^3+QE<=0[GK=4=*_= MB^M6LW=<]\K9;DR"(-;
[R$!6!JG[[1:)7;&PNL/CH MXT,B#C=!*41N_1(C6E&!@K.B]%2V$9R[ITR,*1T-V0$85Y-=A#>"SI#TBFBM M5VQE1K1&EUER8UHE&\,I!LV\'7S'>&"R!'3S Q+7GC7HB%&
<"7&WRL94)D#B? MM>Y/(C:@IYV@&0'?*!(-C9SO*?)+<1,)?6YQ?QLTD^S(^N8,RA 9J0LV[(O MT6>@@/T2G6Y26=%/< BL"4!K"RWJ9'-1ZG\VP@2''^D^C]$*1Y,(S/#=L/&8 M7^'"
[Y:PN$,3:&EO4.>509:[""YK7$0X9:!3Y+VH*3T<7+.IQH;;O3)Q*F;/ MC2D5&(A+3*"%1,L?W(N4I-@MIM85983$&AEW$24/ MZY%7BER8H6=,=*I 2GG^#HRT2]F./]$]3)-
:9#N9<%]KD>W,X7#VXX/3E)R^H-+ZX[[4Z#)B(6!PGKA;,* M!^M"8))*3_OO?')\N+A;U_B)(2SR> .;MGR2;\;!T66EM@8"Y1&/MP9IVALA MS9TX]U<\=OQEC"EJ 3;T6QAF&^2-]GJB
J;.$#IP?45P"C^J(XTNGA0<74&] MSL9*SQ'&T(5"AM6(TRDS,5<7BY'X3TB%BX*VB&9J"],X\U'B6,/B8>*;(&D[M"$]$WS8R'CB3H:\73L-ULKC^::' +4B?J,Y(FW,Y%!L8% J1-
2/<&ZJP2HP M-/HJ>AOR;>IK[6U0PCAX^]Z&S5P^&AB4!<1T368#FOC9VXV#,8"E8Y":?J#S ML :&[ZCL.%)#LY@4.Q_SY9&9];'$,1;U"H;Z+ZD=)T]&-WFKT"1"_F\0S2)?
MJ[Y^]&WZ=AH39H8V\,2LCN_GZY'Z[>/LW1EA"!BK'#MPU;WV]8RLR37,.TG-JF,<2V6)2\66VFXOL8"0[&.UM M:,+RXHER4Q/ZF%[4:L"YCZ-
GT;G,F+\QS:LX+6W1DRX'(QUD['R6YD0O/IZP M&_G&BR@,DP &6Y-7'><>'041)='L*._SD+/F)?D(\KF)KD6DP!913O?BNEO5 MC'@I?4J/A ^3O)BL@2SE3REHOMF9WE>8AE92
<3\BD:[EV\2FVLI+V73[DDL MZW:2DNI@A+9A4F"*D/H7U[U6/A]HVH([7L M^K@ZZM5N+>_Z>(&CJ\,2'[F%=<6\Q_&:/Y M&1^8(:I.U<8&&MAK
ZBOM0V7"JQE,FL3PQ%6.Y#6D0N]'C+N>.K*;.GSGZ7& MFLCKN'4$2.ZOD9Q:,JIHXZDJ@];>IJH<8Y#RH*RH*QW!1T"!]\X76/;["[.? M&1\66H;\U,K([TB]Q >EL)[T
!\%A:%0^_[BEB&L=M5R38JN$H35EZ+K> @+ MB_;+.D8'V#)8:[1['2FW]D]> RFWCH:\/KJA5YJZ,*FMVQBJ?2F\]D]=0RF\ MCH>ZK.?RL@O'-
C=ZW7P1ZE&+KOK2%$\GR,=6#BG%MG.[GC019I/@HAF&KRN M&/0NKC6U,="VUA.E>[&NN=M2\NT]=WO0KR)WNU[RZPBH)LHJ3?=OK+2*Z'Q-
MM"J22PMHZ8_T72VI*2HIT;#I%FB/IY.*>D2$MRR=6XJNDZJ:& S/MFJBOC0F M2R:.K&1BV#JODHE#.SADO43=4LQDO<2>ZR6&ZFG72V3K(Q8K*##W'0%AF6UF
M]E63=;6^UFEIG<'(-/LMO35N#<9=3>O\$T<7'-&0T5RB,N7-?W$#IJCMYIJ! M9[E:!/:$:N(W-D-IYCRADFB[?N@5E!\,V_F!\\,VKIDM2A!K-I3?F?ODZ;,)
M7BHU&GL()LQ3OHE9K_<.QV?JZU<\K3ZNKB@JE"3QEAJT9L"HK-RY=V\N4 6.34W M/NPL&9X>;U]LT6\H7YE':Z-1<.?\9SX5X[R^N,_,5MY;+I(ZB98&Q,^(E!TA4;CTJ
2'7@2P>IZ3[H3 MM1DL:"S-!U5&/\,-B!_&!\)QI/@ZW7& & P^(OAO(5P?WTDR[2B()GND& (V M7W6>X07"^1=/GC:!U=CNC#Z>><'EY2G1+;TP3]P;['#BOF0A;?D1133H M2U@@M
.?*J@\PEPF_*;4*)SO6RQR>_?0H#]PSG<,"QR;"G3AX_9Q M51>ZBD$CS.'$8.-3!U3+L)AHEIKT0UU>WE#U&F"+3FP+TN/)C F# S^IE@
MMQ4)J^'>A%7WXMIU6%Y8Y:F)SYRH98/AN+9/M*@55--$BCED*^Z9[E%)-Q\+ M&(W!-&,M74A.CXUM/D203W81W++&*DYOB8H3,>H_ T'&^JA'47:NM9I#M5]=L7CQ5P>N
M8*]J4UVMW$K'!ZGNSKJ(M]6+!5H0V+W:@7BHYN&;M0Q(QH0A;^#1B&\17Q"- M^$B ->[7^L-/2J 47CM)O9=2$VKW"2(LQ8(YP'%1^O7!C"L9@# MB8!LTW83K\.P4P275ET/E-
,!BL2A+7!HW\,UXLY>^XX01R:&8HU-ZJFMO]:2\M&V.-GFBG"4#\5)#7(>83YH?C5BK\1"'N9C?=I9LMDUG MJU647S\8_N]:UEB=!9OH5\LF,"6V)]G$/MF$1/$U*#ZH$L4'K1:@>#
[E6Z+X M HKONP/YX576]UNHK,=;HE&:'(?5DJ-:A6):11E&'8BNRHJB[6BU?I!ZG9(I M(24AM2FDSL]+<[N]E^8,1)[:JE;DM2OTQ9R-R*O(XW+$[$E"2D+]X"+OZ*V\
M#]+*VT3DJ=6*/&SD656UWMF(/*F12TA)2!UW1N2=MHHC^X=4KART MJU4..EC.+^UA:;M(PCXP86O5$G87M/Y:-!>O V&?GZG]<0N]X_CU3-D=L'+V MU*F6/?
5DZ%D:D)*P:T#8W6H)NU]%BM>I$/;Y^3M^E_X.:195R9XJK<48M 85 M9J >/7N2_@X9U3ZXB__H3>W_EJ:VM%VD[7((Y:#2"JQ!:WAQW:[%N--C4@XD M89^?E7@5)>G4G-
=4CT"\O\>&K M=J?ZKHV#M:THEQ"MDNK$]J+[BBT:C3O8OW%CJ;@AHSO%QY;,W"W\)DKC]G4U#;I4OE;%J=$%\!6\A-]Y+MV&"S_25$KT73? MHP/U$FVK"XB6^N_$2R#_Q"Y''M-
_7NICV.R5;K_HAP0]Y M_=>1]Y?KHA_+>W$:INJJ*#6:+'D6SC M52,4;U?;1$'%)@IMB>);.DDBO1U@R)9+[5T^=>P;/,%D EDBOQ%#J[9$7M4N MKE&/E(%?&?BM,/!
[A/SSZ*VA;>J>9!111A%SDJ;:>FNUP]WW,HIX"OQ3;E!J M\#D)]#>IP6_"5ZLM=U>[5;@DI 8O-?A35Y#_1RK(4D&NDI%7VQA Q<8 6[MB MSD1!/D'MZ9,LII(E0E6RIVK;&ZA]J6>^-
@N8SM?N;IH.? 3YODIUPTHK3J?- MIL]F\FL7*$1=)(E'8\+,T&8/XSM8(YC_L$SVP?(-V_5#CSTXOS/WR=-G$\NX M\9CN?W*=IT_6,S-O?)\%_KUS[\ N+#/4[8^N!
[!T;C$US+.8_W[._YQ_A]>_ MMUWC9T)7@PN% ;G-8".!%[)C2 V]QPU88XN2-&T7T]41#HI.@%!&<_C0X$FO MB#E)?J?RQG(A]P0WF[Z;V6ZYQFE>VY4(U&_I+NRR8JG"(-
Z)1X>0OK_