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# DELTA REPORT

## 10-Q

WVE - WAVE LIFE SCIENCES LTD.

10-Q - MARCH 31, 2024 COMPARED TO 10-Q - SEPTEMBER 30, 2023

The following comparison report has been automatically generated

TOTAL DELTAS 992

█ CHANGES 137

█ DELETIONS 469

█ ADDITIONS 386

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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

**FORM 10-Q**

(Mark One)

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended **September 30, March 31, 2023** **2024**

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission File Number: 001-37627

**WAVE LIFE SCIENCES LTD.**

(Exact name of registrant as specified in its charter)

Singapore

(State or other jurisdiction of incorporation or organization)

98-1356880

(I.R.S. Employer Identification No.)

7 Straits View #12-00, Marina One East Tower

Singapore

(Address of principal executive offices)

018936

(Zip Code)

+65 6236 3388

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading symbol	Name of each exchange on which registered
\$0 Par Value Ordinary Shares	WVE	The Nasdaq Global Market

Indicate by check mark whether the registrant: (1) has 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 the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes  No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input checked="" type="checkbox"/>	Smaller reporting company	<input checked="" type="checkbox"/>
		Emerging growth company	<input type="checkbox"/>

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes  No

The number of outstanding ordinary shares of the registrant as of November 1, 2023 May 7, 2024 was 99,053,902 122,460,160.

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**WAVE LIFE SCIENCES LTD.**

**QUARTERLY REPORT ON FORM 10-Q**

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As used in this Quarterly Report on Form 10-Q, unless otherwise stated or the context otherwise indicates, references to "Wave," the "Company," "we," "our," "us" or similar terms refer to Wave Life Sciences Ltd. and our wholly-owned subsidiaries.

#### **Special Note Regarding Forward-Looking Statements**

This Quarterly Report on Form 10-Q contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended (the "Securities Act"), and Section 21E of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), that relate to future events or to our future operations or financial performance. Any forward-looking statement involves known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to differ materially from any future results, levels of activity, performance or achievements expressed or implied by such forward-looking statement. In some cases, forward-looking statements are identified by the words "anticipate," "believe," "continue," "could," "estimate," "expect," "future," "goals," "intend," "likely," "may," "might," "ongoing," "objective," "plan," "potential," "predict," "project," "seek," "should," "strategy," "target," "will" and "would" or the negative of these terms, or other comparable terminology intended to identify statements about the future, although not all forward-looking statements contain these identifying words. Forward-looking statements include statements, other than statements of historical fact, about, among other things: our ability to fund our future operations; our financial position, revenues, costs, expenses, uses of cash and capital requirements; our need for additional financing or the period for which our existing cash resources will be sufficient to meet our operating requirements; the success, progress, number, scope, cost, duration, timing or results of our research and development activities, preclinical studies and clinical trials, including the timing for initiation or completion of or availability of results from any preclinical studies and clinical trials or for submission, review or approval of any regulatory filing; the timing of, and our ability to, obtain and maintain regulatory approvals for any of our product candidates; the potential benefits that may be derived from any of our product candidates; our strategies, prospects, plans, goals, expectations, forecasts or objectives; the success of our collaborations with third parties; any payment that our collaboration partners may make to us; our ability to identify and develop new product candidates; our intellectual property position; our commercialization, marketing and manufacturing capabilities and strategy; our ability to develop sales and marketing capabilities; our estimates regarding future expenses and needs for additional financing; our ability to develop sales and marketing capabilities; our ability to identify, recruit and retain key personnel; our financial performance; developments and projections relating to our competitors in the industry; our liquidity and working capital requirements; the expected impact of new accounting standards; and our expectations regarding the impact of the coronavirus ("COVID-19") any local and variants thereof global health epidemics on our business, including on our research and development activities, preclinical studies and clinical trials, supply of drug product, and workforce.

Although we believe that we have a reasonable basis for each forward-looking statement contained in this report, we caution you that these statements are based on our estimates or projections of the future that are subject to known and unknown risks and uncertainties and other important factors that may cause our actual results, level of activity, performance or achievements expressed or implied by any forward-looking statement to differ. These risks, uncertainties and other factors include, among other things, our critical accounting policies; the ability of our preclinical studies to produce data sufficient to support the filing of global clinical trial applications and the timing thereof; our ability to continue to build and maintain the company infrastructure and personnel needed to achieve our goals; the clinical results and timing of our programs, which may not support further development of our product candidates; actions of regulatory agencies, which may affect the initiation, timing and progress of clinical trials; our effectiveness in managing current and future clinical trials and regulatory processes; the success of our platform in identifying viable candidates; the continued development and acceptance of nucleic acid therapeutics as a class of drugs; our ability to demonstrate the therapeutic benefits of our stereopure candidates in clinical trials, including our ability to develop candidates across multiple therapeutic modalities; our ability to obtain, maintain and protect intellectual property; our ability to enforce our patents against infringers and defend our patent portfolio against challenges from third parties; our ability to fund our operations and to raise additional capital as needed; competition from others developing therapies for similar uses; and any impacts on our business as a result of or related to the COVID-19 pandemic, any local and global health epidemics, the conflict involving Russia and Ukraine, the conflict in the Middle East, global economic uncertainty, rising inflation, rising interest rates or market disruptions on our business, as well as other risks and uncertainties under the caption "Risk Factors" and any other disclosures contained in this Quarterly Report on Form 10-Q and in other filings we make with the Securities and Exchange Commission (the "SEC").

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Each forward-looking statement contained in this report is based on a combination of facts and factors currently known by us and our expectations of the future, about which we cannot be certain. As a result of these factors, we cannot assure you that the forward-looking statements in this Quarterly Report on Form 10-Q will prove to be accurate. Furthermore, if our forward-looking statements prove to be inaccurate, the inaccuracy may be material. In light of the significant uncertainties in these forward-looking statements, these statements should not be regarded as representations or warranties by us or any other person that we will achieve our objectives and plans in any specified timeframe, or at all. We caution you not to place undue reliance on any forward-looking statement.

In addition, any forward-looking statement in this report represents our views only as of the date of this report and should not be relied upon as representing our views as of any subsequent date. We anticipate that subsequent events and developments may cause our views to change. Although we may elect to update these forward-looking statements publicly at some point in the future, we undertake no obligation to publicly update any forward-looking statements, whether as a result of new information, future events or

otherwise, except as required by applicable law. Our forward-looking statements do not reflect the potential impact of any future acquisitions, mergers, dispositions, joint ventures or investments we may make.

As used in this Quarterly Report on Form 10-Q, unless otherwise stated or the context otherwise indicates, references to "Wave," the "Company," "we," "our," "us" or similar terms refer to Wave Life Sciences Ltd. and our wholly owned subsidiaries. The Wave Life Sciences Ltd. and Wave Life Sciences Pte. Ltd. names, the Wave Life Sciences mark, PRISM and the other registered and pending trademarks, trade names and service marks of Wave Life Sciences Ltd. appearing in this Quarterly Report on Form 10-Q are the property of Wave Life Sciences Ltd. This Quarterly Report on Form 10-Q also contains additional trade names, trademarks and service marks belonging to Wave Life Sciences Ltd. and to other companies. We do not intend our use or display of other parties' trademarks, trade names or service marks to imply, and such use or display should not be construed to imply, a relationship with, or endorsement or sponsorship of us by, these other parties. Solely for convenience, the trademarks and trade names in this Quarterly Report on Form 10-Q are referred to without the ® and ™ symbols, but such reference should not be construed as any indicator that their respective owners will not assert, to the fullest extent under applicable law, their rights thereto.

## PART I - FINANCIAL INFORMATION

### Item 1. Financial Statements

#### WAVE LIFE SCIENCES LTD. UNAUDITED CONSOLIDATED BALANCE SHEETS

(In thousands, except share amounts)

	September 30, 2023	December 31, 2022	March 31, 2024	December 31, 2023
<b>Assets</b>				
Current assets:				
Cash and cash equivalents	\$ 139,942	\$ 88,497	\$ 180,922	\$ 200,351
Accounts receivable	7,000	—	—	21,086
Prepaid expenses	7,514	7,932	11,139	9,912
Other current assets	4,116	2,108	4,706	4,024
Total current assets	158,572	98,537	196,767	235,373
Long-term assets:				
Property and equipment, net of accumulated depreciation of \$41,596 and \$37,846 as of September 30, 2023 and December 31, 2022, respectively	13,770	17,284	12,418	13,084
Property and equipment, net of accumulated depreciation of \$43,687 and \$42,709 as of March 31, 2024 and December 31, 2023, respectively	23,738	26,843	21,502	22,637
Operating lease right-of-use assets	3,683	3,660	3,715	3,699
Restricted cash	155	62	868	156
Total long-term assets	41,346	47,849	38,503	39,576
Total assets	\$ 199,918	\$ 146,386	\$ 235,270	\$ 274,949
<b>Liabilities, Series A preferred shares and shareholders' equity (deficit)</b>				
<b>Liabilities, Series A preferred shares, and shareholders' equity</b>				
Current liabilities:				
Accounts payable	\$ 12,608	\$ 16,915	\$ 11,730	\$ 12,839
Accrued expenses and other current liabilities	12,624	17,552	6,621	16,828
Current portion of deferred revenue	68,251	31,558	140,586	150,059

Current portion of operating lease liability	6,497	5,496	6,936	6,714
<b>Total current liabilities</b>	<b>99,980</b>	<b>71,521</b>	<b>165,873</b>	<b>186,440</b>
Long-term liabilities:				
Deferred revenue, net of current portion	105,380	79,774	12,536	15,601
Operating lease liability, net of current portion	27,170	32,118	23,598	25,404
Other liabilities	—	190		
<b>Total long-term liabilities</b>	<b>132,550</b>	<b>112,082</b>	<b>36,134</b>	<b>41,005</b>
<b>Total liabilities</b>	<b>\$ 232,530</b>	<b>\$ 183,603</b>	<b>\$ 202,007</b>	<b>\$ 227,445</b>
Series A preferred shares, no par value; 3,901,348 shares issued and outstanding at September 30, 2023 and December 31, 2022	\$ 7,874	\$ 7,874		
Shareholders' equity (deficit):				
Ordinary shares, no par value; 99,011,901 and 86,924,643 shares issued and outstanding at September 30, 2023 and December 31, 2022, respectively	\$ 841,405	\$ 802,833		
Series A preferred shares, no par value; 3,901,348 shares issued and outstanding at March 31, 2024 and December 31, 2023			\$ 7,874	\$ 7,874
Shareholders' equity:				
Ordinary shares, no par value; 122,321,384 and 119,162,234 shares issued and outstanding at March 31, 2024 and December 31, 2023, respectively			\$ 949,877	\$ 935,367
Additional paid-in capital	126,885	119,442	132,118	129,237
Accumulated other comprehensive loss	(182)	(29)	(198)	(124)
Accumulated deficit	(1,008,594)	(967,337)	(1,056,408)	(1,024,850)
<b>Total shareholders' deficit</b>	<b>\$ (40,486)</b>	<b>\$ (45,091)</b>		
<b>Total liabilities, Series A preferred shares and shareholders' deficit</b>	<b>\$ 199,918</b>	<b>\$ 146,386</b>		
<b>Total shareholders' equity</b>			<b>\$ 25,389</b>	<b>\$ 39,630</b>
<b>Total liabilities, Series A preferred shares, and shareholders' equity</b>			<b>\$ 235,270</b>	<b>\$ 274,949</b>

*The accompanying notes are an integral part of the unaudited consolidated financial statements.*

**WAVE LIFE SCIENCES LTD.**  
**UNAUDITED CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME (LOSS) LOSS**

*(In thousands, except share and per share amounts)*

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2023	2022	2023	2022
Revenue	\$ 49,214	\$ 285	\$ 84,249	\$ 2,410
Operating expenses:				
Research and development	31,642	27,575	95,935	84,778
General and administrative	13,128	11,609	37,628	36,789
Total operating expenses	44,770	39,184	133,563	121,567
Income (loss) from operations	4,444	(38,899)	(49,314)	(119,157)

Other income (expense), net:				
Dividend income and interest income, net	1,960	596	6,084	746
Other income (expense), net	171	(701)	1,296	297
Total other income (expense), net	2,131	(105)	7,380	1,043
Income (loss) before income taxes	6,575	(39,004)	(41,934)	(118,114)
Income tax benefit (provision)	677	—	677	—
Net income (loss)	\$ 7,252	\$ (39,004)	\$ (41,257)	\$ (118,114)
Less: net income attributable to participating securities	\$ (257)	—	—	—
Net income (loss) attributable to ordinary shareholders, basic and diluted	\$ 6,995	\$ (39,004)	\$ (41,257)	\$ (118,114)
Net income (loss) per share attributable to ordinary shareholders—basic	\$ 0.07	\$ (0.42)	\$ (0.39)	\$ (1.60)
Weighted-average ordinary shares used in computing net income (loss) per share attributable to ordinary shareholders—basic	106,025,063	93,900,484	104,529,266	73,754,417
Net income (loss) per share attributable to ordinary shareholders—diluted	\$ 0.07	\$ (0.42)	\$ (0.39)	\$ (1.60)
Weighted-average ordinary shares used in computing net income (loss) per share attributable to ordinary shareholders—diluted	106,975,231	93,900,484	104,529,266	73,754,417
Other comprehensive income (loss):				
Net income (loss)	\$ 7,252	\$ (39,004)	\$ (41,257)	\$ (118,114)
Foreign currency translation	(32)	(76)	(153)	(304)
Comprehensive income (loss)	\$ 7,220	\$ (39,080)	\$ (41,410)	\$ (118,418)

	Three Months Ended March 31,	
	2024	2023
Revenue	\$ 12,538	\$ 12,929
Operating expenses:		
Research and development	33,447	30,979
General and administrative	13,549	12,235
Total operating expenses	46,996	43,214
Loss from operations	(34,458)	(30,285)
Other income, net:		
Dividend income and interest income	2,535	1,873
Other income, net	365	1,007
Total other income, net	2,900	2,880
Loss before income taxes	(31,558)	(27,405)
Income tax benefit (provision)	—	—
Net loss	\$ (31,558)	\$ (27,405)
Net loss per share attributable to ordinary shareholders—basic and diluted	\$ (0.24)	\$ (0.27)
Weighted-average ordinary shares used in computing net loss per share attributable to ordinary shareholders—basic and diluted	129,271,678	102,056,712
Other comprehensive loss:		
Net loss	\$ (31,558)	\$ (27,405)
Foreign currency translation	(74)	(21)
Comprehensive loss	\$ (31,632)	\$ (27,426)

*The accompanying notes are an integral part of the unaudited consolidated financial statements.*

**WAVE LIFE SCIENCES LTD.**

**UNAUDITED CONSOLIDATED STATEMENTS OF SERIES A PREFERRED SHARES AND SHAREHOLDERS' EQUITY (DEFICIT)**

*(In thousands, except share amounts)*

		Acc umu late d Oth Addi tion al pre Com pre late Acc ume Shar ehol l ders '						Series A Preferred Shares						Accumulated Additional Other Comprehensive Accumulated Shareholders'													
		Inco me Equi ty						Shares		Amount		Shares		Amount		Shares		Amount		Capital		Loss		Deficit		Equity (Deficit)	
Sha res	Amo unt	Sha res	Amo unt	Capi tal	(Los s)	Defi cit	(Defi cit)																				
		3,		9,																							
		9		8	7																						
		0		4	4	8																					
		1,	7,	1,	9,	7,																					
<b>Balance at</b>	<b>3</b>	<b>3</b>	<b>8</b>	<b>1</b>	<b>8</b>	<b>9</b>	<b>1</b>	<b>5</b>	<b>4</b>																		
<b>December</b>	<b>4</b>	<b>7</b>	<b>1</b>	<b>5</b>	<b>8</b>	<b>8</b>	<b>1</b>	<b>9</b>																			
<b>31, 2021</b>	<b>8</b>	<b>\$ 4</b>	<b>6</b>	<b>\$ 1</b>	<b>\$ 0</b>	<b>\$ 1</b>	<b>\$ 4</b> )	<b>\$ 8</b>																			
Issuance of ordinary shares pursuant to the at-the- market equity program, net																											
<b>Balance at</b>																											
<b>December</b>																											
<b>31, 2022</b>																											
					</td																						

Issuance of ordinary shares, pursuant to the GSK	—	—	10,683,761	34,623	—	—	—	34,623
Collaboration Agreement								
Share-based compensation			3,977	3,977				
—	—	—	1	1	—	—	—	2,750
4								2,750
6								
8,								
2								
Vesting of RSUs	—	—	6	—	—	—	363,161	—
1								
5,								
0								
Option exercises	—	—	0	3	—	—	181	1
0	7	—	7	7	—	—	—	1
Issuance of ordinary shares under the ESPP	—	—	4	4	—	—	133,098	429
7								429
7,								
5	1			1				
3	7			7				
Other comprehensive loss	—	—	4	4	—	—	—	—
(8)								
(6)								
(3)								
7,								
8,								
1	1							
Net loss	—	—	—	—	—	—	—	—
6								
3,								
0,								
9	8	7		(8				
0	5	5	9	4				
1, 7,	9,	1,	1,	3,				
Balance at March 31, 2022	3	8	9	2	9	3		
4	7	6	2	5	9	2	(5	
8 \$ 4	8 \$ 9	\$ 1	\$ 5	\$ 8)	\$ 3)			
Balance at March 31, 2023	<u>3,901,348</u>	<u>\$ 7,874</u>	<u>98,104,844</u>	<u>\$ 837,886</u>	<u>\$ 122,192</u>	<u>\$ (50)</u>	<u>\$ (994,742)</u>	<u>\$ (34,714)</u>
			Series A Preferred Shares	Ordinary Shares	Additional Paid-In-Comprehensive	Other Comprehensive	Accumulated Shareholders'	Accumulated Total



		2 0, 0										
Option exercises	—	0	5	—	—	—	5	—	—	35,925	123	—
Issuance of ordinary shares under the ESPP	—	8	8, 5	1	—	—	1	—	—	101,542	349	—
Other comprehensive loss	—	—	7	8	—	—	—	8	—	—	—	349
Net loss	—	—	—	—	—	—	(7) 6)	(7) 6)	—	—	—	(74)
							(3) 9, 0 0	(3) 9, 0 0	—	—	—	(74)
							8	—	—	—	—	(31,558)
Balance at September 30, 2022	3,848	3	\$7	\$5	\$3)	\$8)	\$9)					(31,558)
Balance at March 31, 2024								3,901,348	\$7,874	122,321,384	\$949,877	\$132,118
										\$ (198)	\$ (1,056,408)	\$ 25,389

*The accompanying notes are an integral part of the unaudited consolidated financial statements.*

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WAVE LIFE SCIENCES LTD.

UNAUDITED CONSOLIDATED STATEMENTS OF SERIES A PREFERRED SHARES AND SHAREHOLDERS' EQUITY (DEFICIT) CONTINUED

*(In thousands, except share amounts)*

Share-based compensation	—	—	—	—	2,750	—	—	2,750
Vesting of RSUs	—	—	363,161	—	—	—	—	—
Option exercises	—	—	181	1	—	—	—	1
Issuance of ordinary shares								
under the ESPP	—	—	133,098	429	—	—	—	429
Other comprehensive loss	—	—	—	—	—	(21)	—	(21)
Net loss	—	—	—	—	—	—	(27,405)	(27,405)
<b>Balance at March 31, 2023</b>	<b>3,901,348</b>	<b>\$ 7,874</b>	<b>98,104,844</b>	<b>\$ 837,886</b>	<b>\$ 122,192</b>	<b>\$ (50)</b>	<b>\$ (994,742)</b>	<b>\$ (34,714)</b>
Issuance of ordinary shares								
pursuant to the at-the-market	—	—	429,051	1,704	—	—	—	1,704
equity program, net								
Share-based compensation	—	—	—	—	2,409	—	—	2,409
Vesting of RSUs	—	—	9,234	—	—	—	—	—
Option exercises			23,687	85	—	—	—	85
Other comprehensive loss	—	—	—	—	—	(100)	—	(100)
Net loss	—	—	—	—	—	—	(21,104)	(21,104)
<b>Balance at June 30, 2023</b>	<b>3,901,348</b>	<b>\$ 7,874</b>	<b>98,566,816</b>	<b>\$ 839,675</b>	<b>\$ 124,601</b>	<b>\$ (150)</b>	<b>\$ (1,015,846)</b>	<b>\$ (51,720)</b>
Issuance of ordinary shares								
pursuant to the at-the-market	—	—	322,637	1,376	—	—	—	1,376
equity program, net								
Share-based compensation	—	—	—	—	2,284	—	—	2,284
Vesting of RSUs	—	—	16,657	—	—	—	—	—
Option exercises	—	—	12,976	35	—	—	—	35
Issuance of ordinary shares								
under the ESPP	—	—	92,815	319	—	—	—	319
Other comprehensive loss	—	—	—	—	—	(32)	—	(32)
Net income	—	—	—	—	—	—	7,252	7,252
<b>Balance at September 30, 2023</b>	<b>3,901,348</b>	<b>\$ 7,874</b>	<b>99,011,901</b>	<b>\$ 841,405</b>	<b>\$ 126,885</b>	<b>\$ (182)</b>	<b>\$ (1,008,594)</b>	<b>\$ (40,486)</b>

*The accompanying notes are an integral part of the unaudited consolidated financial statements.*

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**WAVE LIFE SCIENCES LTD.**  
**UNAUDITED CONSOLIDATED STATEMENTS OF CASH FLOWS**

	(In thousands)			
	Nine Months Ended September 30,		Three Months Ended March 31,	
	2023	2022	2024	2023
<b>Cash flows from operating activities</b>				
Net loss	\$ (41,257)	\$ (118,114)	\$ (31,558)	\$ (27,405)
Adjustments to reconcile net loss to net cash provided by (used in) operating activities:				
Amortization of right-of-use assets	3,105	2,557	1,135	1,005
Depreciation of property and equipment	3,919	5,062	1,042	1,433
Share-based compensation expense	7,443	14,287	2,881	2,750
Changes in operating assets and liabilities:				
Accounts receivable	(7,000)	—	21,086	—
Prepaid expenses	418	(835)	(1,227)	(1,299)
Other assets	(2,101)	3,503	(1,394)	(1,804)
Accounts payable	(3,953)	8,337	(1,068)	(4,674)
Accrued expenses and other current liabilities	(4,928)	(3,805)	(10,207)	(9,930)

Deferred revenue	62,299	(2,006)	(12,538)	126,448
Operating lease liabilities	(3,947)	(3,327)	(1,584)	(1,002)
Other non-current liabilities	(190)	—		
Net cash provided by (used in) operating activities	13,808	(94,341)	(33,432)	85,522
<b>Cash flows from investing activities</b>				
Purchases of property and equipment	(759)	(1,157)	(417)	(489)
Proceeds from the sale property and equipment	—	106		
Purchase of short-term investments	—	(75,044)		
Proceeds from maturity of short-term investments	—	50,000		
Net cash used in investing activities	(759)	(26,095)	(417)	(489)
<b>Cash flows from financing activities</b>				
Proceeds from issuance of ordinary shares, net of offering costs	34,623	51,235		
Proceeds from issuance of pre-funded warrants, net of offering costs	—	14,272		
Proceeds from issuance of ordinary shares pursuant to the at-the-market equity program, net of offering costs	3,080	1,167		
Proceeds from the issuance of ordinary shares, net of offering costs			14,038	—
Proceeds from the issuance of ordinary shares pursuant to the				
GSK Collaboration Agreement				34,623
Proceeds from the exercise of share options	121	87	123	1
Proceeds from the ESPP	748	372	349	429
Net cash provided by financing activities	38,572	67,133	14,510	35,053
Effect of foreign exchange rates on cash, cash equivalents and restricted cash	(153)	(304)		
Net increase (decrease) in cash, cash equivalents and restricted cash	51,468	(53,607)		
Cash, cash equivalents and restricted cash, beginning of period	92,157	154,215		
Cash, cash equivalents and restricted cash, end of period	\$ 143,625	\$ 100,608		
<b>Supplemental disclosure of cash flow information</b>				
Increase in operating lease right-of-use assets and lease liabilities related to lease extension	\$ —	\$ 12,006		
Effect of foreign exchange rates on cash, cash equivalents, and restricted cash			(74)	(21)
Net increase (decrease) in cash, cash equivalents, and restricted cash			(19,413)	120,065
Cash, cash equivalents, and restricted cash, beginning of period			204,050	92,157
Cash, cash equivalents, and restricted cash, end of period	\$ 184,637	\$ 212,222		

*The accompanying notes are an integral part of the unaudited consolidated financial statements.*

**Wave Life Sciences Ltd.**  
**Notes to Unaudited Consolidated Financial Statements**

## **1. THE COMPANY**

### ***Organization***

Wave Life Sciences Ltd. (together with its subsidiaries, "Wave" or the "Company") is a clinical-stage RNA medicines biotechnology company committed to delivering life-changing treatments for people battling devastating diseases. Using PRISM, Wave's proprietary discovery and drug development platform that enables focused on unlocking the precise design, optimization, and production of novel stereopure oligonucleotides, Wave is working to develop first- or best-in-class medicines that target the transcriptome (the full set broad potential of ribonucleic acid ("RNA") molecules produced from medicines (also known as oligonucleotides), or those targeting RNA, to transform human health. Wave's RNA medicines platform, PRISM, combines multiple modalities, chemistry innovation and deep insights into human genetics to deliver scientific breakthroughs that treat both rare and prevalent disorders. The Company's toolkit of RNA-targeting modalities includes RNA editing, splicing, antisense silencing and RNA interference ("RNAi"), providing the human genome) to treat Company with unique capabilities for designing and sustainably delivering candidates that optimally address disease biology. The Company's lead programs are in rare and prevalent diseases, with a high degree of unmet need. including alpha-1 antitrypsin deficiency ("AATD"), obesity, Duchenne muscular dystrophy ("DMD"), and Huntington's disease ("HD").

The Company was incorporated in Singapore on July 23, 2012 and has its principal U.S. office in Cambridge, Massachusetts. The Company was incorporated with the purpose of combining two commonly held companies, Wave Life Sciences USA, Inc. ("Wave USA"), a Delaware corporation (formerly Onotorii, Inc.), and Wave Life Sciences Japan, Inc. ("Wave Japan"), a company organized under the laws of Japan (formerly Chiragen., Ltd.), which occurred on September 13, 2012. On May 31, 2016, Wave Life Sciences Ireland Limited ("Wave Ireland") was formed as a wholly-owned subsidiary of Wave Life Sciences Ltd. On April 3, 2017, Wave Life Sciences UK Limited ("Wave UK") was formed as a wholly-owned subsidiary of Wave Life Sciences Ltd.

The Company's primary activities since inception have been developing and evolving PRISM to design, develop and commercialize oligonucleotide therapeutics, RNA medicines, advancing the Company's differentiated portfolio, building the Company's research, development and manufacturing capabilities, advancing programs into the clinic, furthering clinical development of such clinical-stage programs, building the Company's intellectual property, and assuring adequate capital to support these activities.

### ***Liquidity***

Since its inception, the Company has not generated any product revenue and has incurred recurring operating losses. To date, the Company has primarily funded its operations through private placements of debt and equity securities, public and other registered offerings of its equity securities and collaborations with third parties. Until the Company can generate significant revenue from product sales, if ever, the Company expects to continue to finance operations through a combination of public or private equity or debt financings or other sources, which may include upfront and milestone payments from collaborations with third parties. Adequate additional financing may not be available to the Company on acceptable terms, or at all. The inability to raise capital as and when needed would have a negative impact on the Company's financial condition and ability to pursue its business strategy.

As of September 30, 2023 March 31, 2024, the Company had cash and cash equivalents of \$139.9 180.9 million. The Company expects that its existing cash and cash equivalents will be sufficient to fund its operations for at least the next twelve months. The Company has based this expectation on assumptions that may prove to be incorrect, and the best information available, however the Company may use its available capital resources sooner than it currently expects. If the Company's anticipated operating results are not achieved in future periods, planned expenditures may need to be further reduced in order to extend the time period over which the then-available resources would be able to fund the Company's operations. In addition, the Company may elect to raise additional funds before it needs them if the conditions for raising capital are favorable due to market conditions or strategic considerations, even if the Company expects it has sufficient funds for its current or future operating plans.

### ***Risks and Uncertainties***

The Company is subject to risks common to companies in the biotechnology industry including, but not limited to, new technological innovations, protection of proprietary technology, maintaining internal manufacturing capabilities, dependence on key personnel, compliance with government regulations and the need to obtain additional financing. The Company's therapeutic programs will require significant additional research and development efforts, including extensive preclinical and clinical testing and regulatory approval, prior to commercialization of any product candidates. These efforts require significant amounts of additional capital, adequate personnel infrastructure and extensive compliance-reporting capabilities. There can be no assurance that the Company's research and development efforts will be successful, that adequate protection for the Company's intellectual property will be obtained, that any products developed will obtain necessary government regulatory approval or that any approved products will be commercially viable. Even if the Company's product development efforts are successful, it is uncertain when, if ever, the Company will generate significant revenue from product sales. The Company operates in an environment of rapid change in technology and substantial competition from pharmaceutical and biotechnology companies.

#### **Basis of Presentation**

The Company has prepared the accompanying consolidated financial statements in conformity with generally accepted accounting principles in the United States ("U.S. GAAP") and in U.S. dollars.

#### **2. SIGNIFICANT ACCOUNTING POLICIES**

The significant accounting policies described in the Company's audited financial statements as of and for the year ended December 31, 2022 December 31, 2023, and the notes thereto, which are included in the Company's Annual Report on Form 10-K for the year ended December 31, 2022 December 31, 2023, filed with the Securities and Exchange Commission ("SEC") on March 23, 2023 March 6, 2024, as amended (the "2022" "2023 Annual Report on Form 10-K"), have had no material changes during the nine three months ended September 30, 2023, except as described below. March 31, 2024.

#### **Use of Estimates**

The Company's consolidated financial statements are prepared in accordance with U.S. GAAP. The preparation of the Company's financial statements and related disclosures requires the Company to make estimates and assumptions that affect the reported amount of assets, liabilities, revenue, costs and expenses and related disclosures. Management considers many factors in selecting appropriate financial accounting policies and in developing the estimates and assumptions that are used in the preparation of the financial statements. Management must apply significant judgment in this process. The Company believes that its revenue recognition policy, particularly (a) assessing the number of performance obligations; (b) determining the transaction price; (c) allocating the transaction price to the performance obligations in the contract; and (d) determining the pattern over which performance obligations are satisfied, including estimates to complete performance obligations, and the assumptions and estimates used in the Company's analysis of contracts with contract research organizations ("CROs") and contract manufacturing organizations ("CMOs") to estimate the contract expense, involve a greater degree of judgment, and therefore the Company considers them to be its critical accounting policies. The Company evaluates its estimates and assumptions on an ongoing basis. The Company's actual results may differ from these estimates under different assumptions and conditions.

#### **Unaudited Interim Financial Data**

The accompanying interim consolidated balance sheet as of September 30, 2023 March 31, 2024, the related interim consolidated statements of operations and comprehensive income (loss) loss for the three and nine months ended September 30, 2023 March 31, 2024 and 2022, 2023, the consolidated statements of Series A preferred shares and shareholders' equity (deficit) for the three months ended March 31, June 30, March 31, 2024 and September 30, 2023 and 2022, 2023, the consolidated statements of cash flows for the nine three months ended September 30, 2023 March 31, 2024 and 2022, 2023, and the related interim information contained within the notes to the unaudited consolidated financial statements have been prepared in accordance with the rules and regulations of the SEC for interim financial information. Accordingly, they do not include all of the information and the notes required by U.S. GAAP for complete financial statements. The financial data and other information disclosed in these notes related to the three and nine months ended September 30, 2023 March 31, 2024 and 2022, 2023 are unaudited. In the opinion of management, the unaudited interim consolidated financial statements reflect all adjustments, consisting of normal and recurring adjustments, necessary for the fair presentation of the Company's financial position and results of operations for the three and nine months ended September 30, 2023 March 31, 2024 and 2022, 2023. The results of operations for the interim periods are not necessarily indicative of the results to be expected for the year ending December 31, 2023 December 31, 2024 or any other interim period or future year or period.

#### **3. ACCRUED EXPENSES AND OTHER CURRENT LIABILITIES**

Accrued expenses and other current liabilities consist of the following:

	September 30, 2023	December 31, 2022	March 31, 2024		December 31, 2023
	(in thousands)				(in thousands)
Accrued compensation	\$ 8,457	\$ 12,287	\$ 3,697	\$	14,065
Accrued expenses related to CROs and CMOs	3,080	3,516	1,754		1,768
Accrued expenses and other current liabilities	1,087	1,749	1,170		995
Total accrued expenses and other current liabilities	\$ 12,624	\$ 17,552	\$ 6,621	\$	16,828

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#### 4. SHARE-BASED COMPENSATION

The Wave Life Sciences Ltd. 2021 Equity Incentive Plan was approved by the Company's shareholders and went into effect on August 10, 2021 and was amended effective as of August 9, 2022 and August 1, 2023 (as amended, the "2021 Plan"). The 2021 Plan serves as the successor to the Wave Life Sciences Ltd. 2014 Equity Incentive Plan, as amended (the "2014 Plan"), such that outstanding awards granted under the 2014 Plan continue to be governed by the terms of the 2014 Plan, but no awards may be made under the 2014 Plan after August 10, 2021. The aggregate number of ordinary shares authorized for issuance of awards under the 2021 Plan was originally 5,450,000 ordinary shares, and was subsequently increased to 11,450,000 and 17,950,000 in August 2022 and August 2023, respectively, plus the number of ordinary shares underlying any awards under the 2014 Plan that are forfeited, cancelled or otherwise terminated (other than by exercise or withheld by the Company to satisfy any tax withholding obligation) on or after August 10, 2021.

The 2021 Plan authorizes (and the 2014 Plan previously authorized) the Company's board of directors or a committee of the board of directors to, among other things, grant non-qualified share options, restricted awards, which include restricted shares and restricted share units ("RSUs"), and performance awards to eligible employees and directors of the Company. The Company accounts for grants to its **non-employee** board of directors as grants to employees.

Options generally vest over periods of one to four years, and options that are forfeited or cancelled are available to be granted again. The contractual life of options is generally five or ten years from the grant date. RSUs can be time-based or performance-based. Time-based RSUs generally vest over a period of one to four years. The vesting of performance-based RSUs is contingent on the achievement of certain performance milestones. Any RSUs that are forfeited are available to be granted again.

During the **nine** **three** months ended **September 30, 2023** **March 31, 2024**, the Company granted an aggregate of **5,646,300** **6,271,850** options to employees and non-employee directors and **152,475** **47,725** time-based RSUs to employees.

As of **September 30, 2023** **March 31, 2024**, **8,124,732** **2,092,189** ordinary shares remained available for future grant under the 2021 Plan.

The table below shows the options and RSUs outstanding as of **September 30, 2023** **March 31, 2024** and **2022** **2023**.

	As of September 30,	
	2023	2022
Options to purchase ordinary shares	14,238,590	9,732,711
RSUs	633,283	999,771
As of March 31,		
	2024	2023
	20,061,152	14,235,350
RSUs	635,323	614,449

The Wave Life Sciences Ltd. 2019 Employee Share Purchase Plan, as amended (the "ESPP"), allows full-time and certain part-time employees to purchase the Company's ordinary shares at a discount to fair market value. Eligible employees may enroll in a six-month offering period beginning every January 15th and July 15th. Ordinary shares are purchased at a price equal to 85% of the lower of the fair market value of the Company's ordinary shares on the first business day or the last business day of an offering period. The aggregate number of ordinary shares authorized for issuance under the ESPP was originally 1,000,000 and was subsequently increased to 3,000,000 in August 2023.

During the **nine** **three** months ended **September 30, 2023** **March 31, 2024**, **225,913** **101,542** ordinary shares were issued under the ESPP. As of **September 30, 2023** **March 31, 2024**, there were **2,490,500** **2,388,958** ordinary shares available for issuance under the ESPP.

#### 5. COLLABORATION AGREEMENTS

##### **GSK Collaboration and Equity Agreements**

On December 13, 2022, Wave USA and Wave UK entered into a Collaboration and License Agreement (the "GSK Collaboration Agreement") with GlaxoSmithKline Intellectual Property (No. 3) ("GSK"). Pursuant to the GSK Collaboration Agreement, Wave and GSK have agreed to collaborate on the research, development, and commercialization of oligonucleotide therapeutics, including an exclusive global license to WVE-006. The discovery collaboration component has an initial four-year research term and combines Wave's proprietary discovery and drug development platform, PRISM, with GSK's unique **genetic insights from human genetics** and its global development and commercial capabilities. On January 27, 2023, the GSK Collaboration Agreement became effective, and GSK paid Wave an upfront payment of \$120.0 million.

Simultaneously with the execution of the GSK Collaboration Agreement, Wave entered into a Share Purchase Agreement (the "SPA") on December 13, 2022, with Glaxo Group Limited ("GGL"), an affiliate of GSK, pursuant to which Wave agreed to sell 10,683,761 of its ordinary shares to GGL at a purchase price of \$4.68 per share (the "GSK Equity Investment"). The GSK Equity Investment closed on January 26, 2023, following the completion of customary closing conditions. The ordinary shares purchased by GGL are

subject to lock-up and standstill restrictions and carry certain registration rights, customary for transactions of this kind. The Company did not incur any material costs in connection with the issuance of the ordinary shares under the SPA.

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The GSK Collaboration Agreement has three components:

1. An exclusive global license for GSK to WVE-006, the Company's then preclinical, first-in-class A-to-I(G) RNA editing candidate for alpha-1 antitrypsin deficiency ("AATD"), with development and commercialization responsibilities transferring to GSK

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after the Company completes the first-in-patient study (the "AATD Collaboration"). The Company will be responsible for preclinical, regulatory, manufacturing, and clinical activities for WVE-006 through the initial Phase 1/2 study, at the Company's sole cost. Thereafter, GSK will be responsible for advancing WVE-006 through pivotal studies, registration, and global commercialization at GSK's sole cost;

2. A discovery research collaboration which enables GSK to advance up to eight programs leveraging PRISM and the Company's oligonucleotide expertise and disc capabilities (the "Discovery Research Collaboration"); and
3. A discovery collaboration which enables the Company to advance up to three programs leveraging targets informed by GSK's novel genetic insights ("Wave's Collaboration Programs").

Under the GSK Collaboration Agreement, each party grants to the other party certain licenses to the collaboration products to enable the other party to perform its obligations and exercise its rights under the GSK Collaboration Agreement, including license grants to enable each party to conduct research, development and commercialization activities pursuant to the terms of the GSK Collaboration Agreement. The parties' exclusivity obligations to each other are limited on a target-by-target basis with regard to targets in the collaboration. GSK may terminate the GSK Collaboration Agreement for convenience, in its entirety or on a target-by-target basis. Subject to certain exceptions, each party has the right to terminate the GSK Collaboration Agreement on a target-by-target basis if the other party, or a related party, challenges the patentability, enforceability or validity of any patents within the licensed technology that cover any product that is subject to the GSK Collaboration Agreement. In the event of any material breach of the GSK Collaboration Agreement by a party, subject to cure rights, the other party may terminate the GSK Collaboration Agreement in its entirety if the breach relates to all targets or on a target-by-target basis if the breach relates to a specific target. In the event that GSK and its affiliates cease development, manufacturing and commercialization activities with respect to compounds or products subject to the GSK Collaboration Agreement and directed to a particular target, the Company may terminate the GSK Collaboration Agreement with respect to such target. Either party may terminate the GSK Collaboration Agreement for the other party's insolvency. In certain termination circumstances, the Company would receive a license from GSK to continue researching, developing and manufacturing certain products.

The GSK Collaboration Agreement, unless terminated earlier, will continue until the date on which: (i) with respect to a validation target, the date on which such validation target is not advanced into a collaboration program; or (ii) with respect to a collaboration target, the royalty term has expired for all collaboration products directed to the applicable collaboration target. The GSK Collaboration Agreement includes options to extend the research term for up to three additional years, which would increase the number of programs available to both parties. The Company will lead all preclinical research for GSK and the Company's collaboration programs up to investigational new drug ("IND")-enabling studies. The Company will lead IND-enabling studies, clinical development and commercialization for the Company's collaboration programs. GSK collaboration programs will transfer to GSK for IND-enabling studies, clinical development and commercialization.

The GSK Collaboration Agreement is managed by a joint steering committee in which both parties are represented equally. In addition, the AATD Collaboration is overseen by a joint development committee, a joint patent committee advises on intellectual property activities, and the Discovery Research Collaboration is overseen by a joint research committee. Both parties are represented equally for these committees and report to the joint steering committee.

The Company assessed this arrangement in accordance with ASC Topic 606, Revenue from Contracts with Customers ("ASC 606") and concluded that the contract counterparty, GSK, is a customer for the AATD Collaboration prior to GSK exercising its option and, for the Discovery Research Collaboration programs during the target validation research term. The Company identified the following material promises under the arrangement: (1) the exclusive global license for WVE-006; (2) the research and development services for WVE-006 through the Phase 1/2 study; (3) the discovery research services under the Discovery Research Collaboration to perform target validation programs; (4) research and development license for the Discovery Research Collaboration; and (5) the research and development services for the GSK collaboration programs through completion of a candidate selection. The research and development services for WVE-006 were determined to not be distinct from the exclusive global license and should therefore be combined into a single performance obligation for the AATD Collaboration. The research and development services for the Discovery Research Collaboration were determined to not be distinct from the research and development license for the Discovery Research Collaboration and should therefore be combined into a single performance obligation. In addition, the Company determined that the standalone selling price for the option to advance up to eight programs from the Discovery Research Collaboration was priced at fair value and determined it did not provide a material right to GSK.

Based on these assessments, the Company identified two performance obligations in the GSK Collaboration Agreement: (1) AATD Collaboration consisting of the research and development services through completion of the Phase 1/2 study and research and development license for WVE-006 and (2) Discovery Research Collaboration which consists

of research and development services for validating the targets and license for research and development license for targets.

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At the outset of the arrangement, the transaction price included fixed consideration of the \$120.0 million upfront, the \$15.4 million in premium related to the GSK Equity Investment and the **estimated variable fixed** consideration related to the additional target validation research funding. The Company allocated the estimated variable consideration **relating to the target validation research** to the Discovery Research Collaboration **programs** and

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**the variable consideration relating to the development milestone to the AATD Collaboration** and then allocated the fixed consideration to the performance obligations on a relative standalone selling price basis. The Company determined that the GSK Collaboration Agreement did not contain a significant financing component. The program initiation fees to **research and advance up to eight programs from the Discovery Research Collaboration** to preclinically develop the GSK collaboration programs and the additional potential milestone payments were excluded from the transaction price, as all milestone amounts were fully constrained at the inception of the GSK Collaboration Agreement. The Company will reevaluate the transaction price at the end of each reporting period, and as uncertain events are resolved or other changes in circumstances occur, the Company will adjust its estimate of the transaction price.

The following table summarizes the allocation of the total transaction price to the identified performance obligation under the GSK Collaboration Agreement, and the amount of the transaction price unsatisfied as of March 31, 2024 (in thousands):

Performance Obligations:	Transaction Price Allocated		Transaction Price Unsatisfied (1)	
AATD Collaboration	\$	156,778	\$	80,545
Discovery Research Collaboration		21,007		18,693
<b>Total</b>	<b>\$</b>	<b>177,785</b>	<b>\$</b>	<b>99,238</b>

(1) The Unsatisfied transaction price will be recognized over the remaining research term.

The Company developed the estimated standalone selling price for the global license for WVE-006, under the AATD Collaboration, using a discounted cash flow model. For the performance obligation associated with the research and development services under the Discovery Research Collaboration and the research and development services for WVE-006 under the AATD Collaboration, the Company determined the standalone selling price using estimates of the costs to perform the research and development services, including expected internal and external costs for services and supplies, adjusted to reflect a profit margin. The total estimated cost of the research and development services reflected the nature of the services to be performed and the Company's best estimate of the length of time required to perform the services.

Revenue associated with the AATD Collaboration performance obligation is being recognized as the research and development services are provided using an input measure, according to the costs incurred and the total costs expected to be incurred to satisfy the performance obligation. The revenue associated with the Discovery Research Collaboration performance obligation is being recognized as the research and development services are provided using an input measure, according to the costs incurred and the total costs expected to be incurred to satisfy the performance obligation. The amounts received that have not yet been recognized as revenue are recorded in deferred revenue on the Company's consolidated balance sheet. Additional funding related to the Company's research activities related to Discovery Research Collaboration will be recorded as accounts receivable when contractually enforceable and recorded as deferred revenue, or as revenue as the services are provided.

During the **three year ended December 31, 2023**, the Company achieved a developmental milestone which pertained to the initiation of dosing in healthy volunteers in the **RestorAA<sup>TM</sup> clinical trial program**, triggering a \$20.0 million milestone payment to the Company from GSK. As of December 31, 2023, the \$20.0 million related to the achievement of the milestone was included in the current portion of accounts receivable and **nine** payment was received from GSK in the first quarter of 2024.

Under the GSK Collaboration Agreement, for the three months ended **September 30, 2023**, **March 31, 2024** and **2023**, the Company recognized revenue of **\$14.3** **12.3** million **and** for each period, using the input method described above. Through March 31, 2024, the Company had recognized revenue of **\$47.4** **78.5** million **respectively**, under the GSK Collaboration Agreement **using as collaboration revenue in the input method described above**. Company's consolidated statements of operations and comprehensive loss.

The aggregate amount of the transaction price allocated to the Company's unsatisfied and partially unsatisfied performance obligations and recorded in deferred revenue on **September 30, 2023** **is March 31, 2024** was approximately **\$92.2** **82.1** million, of which approximately **\$65.9** **69.5** million **is** **was** included in current liabilities and approximately **\$26.3** **12.5** million was included in long-term liabilities. The aggregate amount of the transaction price allocated to the Company's unsatisfied and partially unsatisfied performance obligations and recorded in deferred revenue on December 31, 2023 was approximately **\$94.3** million, of which approximately **\$78.7** million was included in current liabilities and **\$15.6** million is included in long-term liabilities.

Subsequent to March 31, 2024, GSK selected its first two programs to advance to development candidates following achievement of target validation. These programs utilize Wave's next generation GalNAc-siRNA format and are in hepatology. Under the GSK Collaboration Agreement, GSK is required to provide an aggregate initiation payment of

\$12.0 million to Wave for these two oligonucleotide programs. Under the GSK Collaboration Agreement, GSK can advance up to eight programs leveraging Wave's PRISM platform and multiple RNA-targeting modalities (RNA editing, splicing, siRNA, and antisense) with target validation work ongoing across multiple therapy areas.

#### **Takeda Collaboration and Equity Agreements**

In February 2018, Wave USA and Wave UK entered into a global strategic collaboration (the "Takeda Collaboration") with Takeda Pharmaceutical Company Limited ("Takeda"), pursuant to which Wave USA, Wave UK and Takeda agreed to collaborate on the research, development and commercialization of oligonucleotide therapeutics for disorders of the Central Nervous System ("CNS"). The Takeda Collaboration provides the Company with at least \$230.0 million in committed cash and Takeda with the option to co-develop and co-commercialize the Company's CNS development programs in (1) Huntington's disease ("HD"); (2) amyotrophic lateral sclerosis ("ALS") and frontotemporal dementia ("FTD"); and (3) the Company's discovery-stage program targeting ATXN3 for the treatment of spinocerebellar ataxia 3 ("SCA3") (collectively, "Category 1 Programs"). In addition, the Takeda Collaboration provided Takeda the right to exclusively license multiple preclinical programs for CNS disorders, including Alzheimer's disease and Parkinson's disease (collectively, "Category 2 Programs"). In April 2018, the Takeda Collaboration became effective and Takeda paid the Company \$110.0 million as an upfront payment. Takeda also agreed to fund the Company's research and preclinical activities in the amount of \$60.0 million during the four-year research term and to reimburse the Company for any collaboration-budgeted research and preclinical expenses incurred by Wave that exceed that amount.

Simultaneously with Wave USA and Wave UK's entry into the collaboration and license agreement with Takeda (the "Takeda Collaboration Agreement"), the Company entered into a share purchase agreement with Takeda (the "Takeda Equity Agreement," and together with the Takeda Collaboration Agreement, the "Takeda Agreements") pursuant to which it agreed to sell to Takeda 1,096,892 of its ordinary shares at a purchase price of \$54.70 per share. In April 2018, the Company closed the Takeda Equity Agreement and received aggregate cash proceeds of \$60.0 million. The Company did not incur any material costs in connection with the issuance of the shares.

With respect to Category 1 Programs, the Company will be responsible for researching and developing products and companion diagnostics for Category 1 Programs through completion of the first proof of mechanism study for such products. Takeda will have an exclusive option for each target and all associated products and companion diagnostics for such target, which it may exercise at any time through completion of the proof of mechanism study. If Takeda exercises this option, the Company will receive an opt-in payment and will lead manufacturing and joint clinical co-development activities and Takeda will lead joint co-commercial activities in the United States and all commercial activities outside of the United States. Global costs and potential profits will be shared 50:50 and the Company will be eligible to receive development and commercial milestone payments. In addition to its 50% profit share, the Company is eligible to receive option exercise fees and development and commercial milestone payments for each of the Category 1 Programs.

With respect to Category 2 Programs, the Company granted Takeda the right to exclusively license multiple preclinical programs during a four-year research term (subject to limited extension for programs that were initiated prior to the expiration of the research term, in accordance with the Takeda Collaboration Agreement) ("Category 2 Research Term"). During that term, the Takeda Collaboration provided that the parties may collaborate on preclinical programs for up to six targets at any one time. The Company was responsible for researching and preclinically developing products and companion diagnostics directed to the agreed upon targets through completion of Investigational **New Drug application ("IND")-enabling** IND enabling studies in the first major market country. Thereafter, Takeda would have an exclusive worldwide license to develop and commercialize products and companion diagnostics directed to such targets, subject to the Company's retained rights to lead manufacturing activities for products directed to such targets. Takeda agreed to fund the Company's research and preclinical activities in the amount of \$60.0 million during the research term and reimburse the Company for any collaboration-budgeted research and preclinical expenses incurred by the Company that exceeded that amount. The Company was also eligible to receive tiered high single-digit to mid-teen royalties on Takeda's global commercial sales of products from each Category 2 Program.

Under the Takeda Collaboration Agreement, each party granted to the other party specific intellectual property licenses to enable the other party to perform its obligations and exercise its rights under the Takeda Collaboration Agreement, including license grants to enable each party to conduct research, development and commercialization activities pursuant to the terms of the Takeda Collaboration Agreement.

The term of the Takeda Collaboration Agreement commenced on April 2, 2018 and, unless terminated earlier, will continue until the date on which: (i) with respect to each Category 1 Program target for which Takeda does not exercise its option, the expiration or termination of the development program with respect to such target; (ii) with respect to each Category 1 Program target for which Takeda exercises its option, the date on which neither party is researching, developing or manufacturing any products or companion diagnostics directed to such target; or (iii) with respect to each Category 2 Program target, the date on which royalties are no longer payable with respect to products directed to such target.

Takeda may terminate the Takeda Collaboration Agreement for convenience on 180 days' notice, in its entirety or on a target-by-target basis. Subject to certain exceptions, each party has the right to terminate the Takeda Collaboration Agreement on a target-by-target basis if the other party, or a third party related to such party, challenges the patentability, enforceability or validity of any patents within the licensed technology that cover any product or companion diagnostic that is subject to the Takeda Collaboration Agreement. In the event of any material breach of the Takeda Collaboration Agreement by a party, subject to cure rights, the other party may terminate the Takeda Collaboration Agreement in its entirety if the breach relates to all targets or on a target-by-target basis if the breach relates to a specific target. In the event that Takeda and its affiliates cease development, manufacturing and commercialization activities with respect to compounds or products subject to the Takeda Collaboration Agreement and directed to a particular target, the Company may terminate the Takeda Collaboration Agreement with respect to such target. Either party may terminate the Takeda Collaboration Agreement for the other party's insolvency. In certain termination circumstances, the Company would receive a license from Takeda to continue researching, developing and manufacturing certain products, and companion diagnostics.

The Takeda Collaboration is managed by a joint steering committee in which both parties are represented equally. The joint steering committee is tasked with overseeing the scientific progression of each Category 1 Program and, prior to the Amendment (discussed below), the Category 2 Programs.

The Company assessed this arrangement in accordance with ASC 606 and concluded that the contract counterparty, Takeda, is a customer for Category 1 Programs prior to Takeda exercising its option, and for Category 2 Programs during the Category 2 Research Term. The Company identified the following material promises under the arrangement: (1) the non-exclusive, royalty-free research and development license for each Category 1 Program; (2) the research and development services for each Category 1 Program through completion of the first proof of mechanism study; (3) the exclusive option to license, co-develop and co-commercialize each Category 1 Program; (4) the right to exclusively license the Category 2 Programs; and (5) the research and preclinical development services of the Category 2 Programs through completion of IND-enabling studies. The research and development services for each Category 1 Program were determined to not be distinct from the research and development license and should therefore be combined into a single performance obligation for each Category 1 Program. The research and preclinical development services for the Category 2 Programs were determined to not be distinct from the exclusive licenses for the Category 2 Programs and therefore were combined into a single performance obligation.

Additionally, the Company determined that the exclusive option for each Category 1 Program was priced at a discount, and, as such, provide material rights to Takeda, representing three separate performance obligations. Based on these assessments, the Company identified seven performance obligations in the Takeda Collaboration Agreement: (1) research and development services through completion of the first proof of mechanism and non-exclusive research and development license for HD; (2) research and development services through completion of the first proof of mechanism and non-exclusive research and development license for ALS and FTD; (3) research and development services through completion of the first proof of mechanism and non-exclusive research and development license for SCA3; (4) the material right provided for the exclusive option to license, co-develop and co-commercialize HD; (5) the material right provided for the exclusive option to license, co-develop and co-commercialize ALS and FTD; (6) the material right provided for the exclusive option to license, co-develop and co-commercialize SCA3; and (7) the research and preclinical development services and right to exclusively license the Category 2 Programs.

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At the outset of the arrangement, the transaction price included the \$110.0 million upfront consideration received and the \$60.0 million of committed research and preclinical funding for the Category 2 Programs. The Company determined that the Takeda Collaboration Agreement did not contain a significant financing component. The option exercise fees to license, co-develop and co-commercialize each Category 1 Program that may be received are excluded from the transaction price until each customer option is exercised. The potential milestone payments were excluded from the transaction price, as all milestone amounts were fully constrained at the inception of the Takeda Collaboration Agreement. The Company will reevaluate the transaction price at the end of each reporting period and as uncertain events are resolved or other changes in circumstances occur, if necessary, will adjust its estimate of the transaction price.

The Company allocated the transaction price to the performance obligations on a relative standalone selling price basis. For the performance obligations associated with the research and development services through completion of the first proof of mechanism and non-exclusive research and development license for HD; the research and development services through completion of the first proof of mechanism and non-exclusive research and development license for ALS and FTD; the research and development services through completion of the first proof of mechanism and non-exclusive research and development license for SCA3; and the research and preclinical development services and right to exclusively license the Category 2 Programs, the Company determined the standalone selling price using estimates of the costs to perform the research and development services, including expected internal and external costs for services and supplies, adjusted to reflect a profit margin. The total estimated cost of the research and development services reflected the nature of the services to be performed and the Company's best estimate of the length of time required to perform the services. For the performance obligations associated with the material right provided for the exclusive option to license, co-develop and co-commercialize HD; the material right provided for the exclusive option to license, co-develop and co-commercialize ALS and FTD; and the material right provided for the exclusive option to license, co-develop and co-commercialize SCA3, the Company estimated the standalone fair value of the option to license each Category 1 Program utilizing an adjusted market assessment approach, and determined that any standalone fair value in excess of the amounts to be paid by Takeda associated with each option represented a material right.

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Revenue associated with the research and development services for each Category 1 Program performance obligation is being recognized as the research and development services are provided using an input method, according to the costs incurred on each Category 1 Program and the total costs expected to be incurred to satisfy each Category 1 Program performance obligation. Prior to the Amendment (as defined below), described below, revenue associated with the research and preclinical development services for the Category 2 Programs performance obligation was recognized as the research and preclinical development services are that were provided using an input method, according to the costs incurred on Category 2 Programs and the total costs expected to be incurred to satisfy the performance obligation. The amount allocated to the material right for each Category 1 Program option will be recognized on the date that Takeda exercises each respective option, or immediately as each option expires unexercised. The amounts received that have not yet been recognized as revenue are recorded in deferred revenue on the Company's consolidated balance sheet.

On October 15, 2021, Wave USA, Wave UK and Takeda entered into the Second Amendment to the Takeda Collaboration Agreement (the "Amendment"), which discontinued the Category 2 component of the Takeda Collaboration. The Category 1 Programs under the Collaboration Agreement remain in effect and are unchanged by the Amendment. Pursuant to the Amendment, Takeda agreed to pay the Company an additional \$22.5 million as full payment for reimbursable Category 2 Programs collaboration-budgeted research and preclinical expenses. The Company received this payment from Takeda related to the Category 2 component and recognized the full amount as collaboration revenue in the year ended December 31, 2021.

In May 2023, the Company announced its decision to discontinue clinical development of WVE-004 for C9orf72-associated ALS and FTD ("C9 for ALS/FTD"), one of the Category 1 Programs. In July 2023, the joint steering committee that manages the Takeda Collaboration terminated C9 for ALS/FTD as a target under the collaboration (the "C9 Target") and consequently Takeda and the Company's rights and obligations under the Takeda Collaboration were terminated with respect to the C9 Target. As a result of the termination of the C9 for ALS/FTD Category 1 Program, the Company recognized \$28.0 million in revenue during the three months ended September 30, 2023, which represented the remainder of the deferred revenue for the C9 for ALS/FTD Category 1 Program as of June 30, 2023.

During In December 2023, the joint steering committee that manages the Takeda Collaboration terminated the SCA3 Category 1 Program as a target under the collaboration and consequently, Takeda and the Company's rights and obligations under the Takeda Collaboration were terminated with respect to the SCA3 Category 1 Program. As a result of the termination of the SCA3 Category 1 Program, the Company recognized \$9.9 million in revenue during the three months ended December 31, 2023, which represented the remainder of the deferred revenue for the SCA3 Category 1 Program as of September 30, 2023.

In the third quarter of 2023, the Company achieved a developmental milestone related to the HD Category 1 Program, which pertained to the positive results from a non-clinical study of WVE-003 in non-human primates ("NHPs"). As a result of achieving the milestone, the Company recognized \$7.0 million in revenue, during the three months ended September 30, 2023, which was not previously recorded in deferred revenue, as it was fully constrained at the inception of the Takeda Collaboration. As of September 30, 2023, the \$7.0 million related to the achievement of the milestone is included in the current portion of accounts receivable.

Through September 30, 2023,

During the three months ended March 31, 2024 and 2023, the Company has recognized revenue of approximately \$118.1 0.3 million as collaboration revenue and \$0.7 million, respectively, under the Takeda Collaboration Agreement in the Company's consolidated statements of operations and comprehensive income (loss). During the three and nine months ended September 30, 2023 loss. Through March 31, 2024, the Company had recognized revenue of \$34.9 million and \$36.9 128.5 million under the Takeda Collaboration Agreement respectively. During as collaboration revenue in the three Company's consolidated statements of operations and nine months ended September 30, 2022, the Company recognized revenue of approximately \$0.2 million and \$2.0 million under the Takeda Collaboration Agreement, respectively.

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comprehensive loss.

The aggregate amount of the transaction price allocated to the Company's unsatisfied and partially unsatisfied performance obligations and recorded in deferred revenue as of December 31, 2022 March 31, 2024 and December 31, 2023 was \$111.3 71.0 million of which approximately and \$31.6 71.3 million, respectively, and all of the deferred revenue was included in current liabilities and \$79.8 million was included in long-term liabilities. The aggregate amount of the transaction price allocated to the Company's unsatisfied and partially unsatisfied performance obligations and recorded in deferred revenue at September 30, 2023 is approximately \$81.4 million, of which \$2.3 million is included in current liabilities and \$79.1 million is included in long-term liabilities. The Company expects to recognize revenue for the portion of the deferred revenue that relates to the research and development services for each remaining Category 1 Program as costs are incurred, over the remaining research term. The Company expects to recognize revenue for the portion of the deferred revenue that relates to the material right for each remaining Category 1 Program option upon Takeda's exercise or termination of such option, or immediately as each option expires unexercised.

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## 6. SHAREHOLDERS' EQUITY

In January 2024, the underwriters of the previously disclosed underwritten public offering in December 2023 exercised their option to purchase an additional 3,000,000 ordinary shares at a price of \$5.00 per share for additional gross proceeds to the Company of \$15.0 million. This resulted in additional net proceeds of \$14.0 million to the Company during the three months ended March 31, 2024, after deducting the underwriting discounts and commissions and offering expenses.

## 7. NET INCOME (LOSS) LOSS PER ORDINARY SHARE

The Company applies the two-class method to calculate its basic and diluted net income (loss) loss per share attributable to ordinary shareholders, as its Series A preferred shares are participating securities. The two-class method is an earnings allocation formula that treats a participating security as having rights to earnings that otherwise would have been available to ordinary shareholders.

As of **September 30, 2023** **March 31, 2024**, there are 7,093,656 vested and exercisable pre-funded warrants ("Pre-Funded Warrants") outstanding to purchase ordinary shares for the exercise price of \$0.0001 per share, provided that, unless and until the Company obtains shareholder approval for the issuance of the shares underlying the Pre-Funded Warrants, a holder will not be entitled to exercise any portion of any Pre-Funded Warrant, which, upon giving effect to such exercise, would cause (i) the aggregate number of our ordinary shares beneficially owned by the holder (together with its affiliates) to exceed 19.99% of the number of our ordinary shares outstanding immediately after giving effect to the exercise, or (ii) the combined voting power of our securities beneficially owned by the holder (together with its affiliates) to exceed 19.99% of the combined voting power of all of our securities then outstanding immediately after giving effect to the exercise, as such percentage ownership is determined in accordance with the terms of the Pre-Funded Warrants. The Pre-Funded Warrants are included in the weighted-average shares outstanding used in the calculation of basic net income (loss) loss per share as the exercise price is negligible and the warrants are fully vested and exercisable.

Basic loss per share is computed by dividing net income (loss) loss attributable to ordinary shareholders and Pre-Funded Warrant holders by the weighted-average number of ordinary shares and Pre-Funded Warrants outstanding.

The Company's potentially dilutive shares, which include outstanding share options to purchase ordinary shares, RSUs, and Series A preferred shares, are considered to be ordinary share equivalents and are only included in the calculation of diluted net income (loss) loss per share when their effect is dilutive.

**The following potential ordinary shares, presented based on amounts outstanding at each period end, were excluded from the calculation of diluted net loss per share attributable to ordinary shareholders for the periods indicated because including them would have had an anti-dilutive effect:**

	As of March 31,	
	2024	2023
Options to purchase ordinary shares	20,061,152	14,235,350
RSUs	635,323	614,449
Series A preferred shares	3,901,348	3,901,348

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As of as of September 30, 2023 and 2022, there were 3,901,348 Series A preferred shares outstanding; Additionally, for the Series A preferred shares are participating securities under the two-class method. For the nine months ended September 30, 2023 and the three and nine months ended September 30, 2022, periods presented, the two-class method does not impact the net loss per ordinary share as the Company was in a net loss position for each of the periods presented and holders of Series A preferred shares do not participate in losses.

**The table below sets forth the computation of the Company's basic and diluted net income (loss) attributable to ordinary shareholders:**

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2023	2022	2023	2022
(in thousands, except share and per share data)				
<b>Numerator</b>				
Net income (loss)	\$ 7,252	\$ (39,004)	\$ (41,257)	\$ (118,114)
Less: net income attributable to participating securities	(257)	—	—	—
Net income (loss) attributable to ordinary shareholders, basic and diluted	\$ 6,995	\$ (39,004)	\$ (41,257)	\$ (118,114)
<b>Denominator</b>				
Weighted-average ordinary shares used in computing net income (loss) per share attributable to ordinary shareholders—basic	106,025,063	93,900,484	104,529,266	73,754,417

Effect of employee share plans	950,168	—	—	—
Weighted-average ordinary shares used in computing net income (loss) per share attributable to ordinary shareholders—diluted	106,975,231	93,900,484	104,529,266	73,754,417
Net income (loss) per share attributable to ordinary shareholders—basic	\$ 0.07	\$ (0.42)	\$ (0.39)	\$ (1.60)
Net income (loss) per share attributable to ordinary shareholders—diluted	\$ 0.07	\$ (0.42)	\$ (0.39)	\$ (1.60)

The table below summarizes awards that were excluded from the computation of diluted earnings as their inclusion would have been anti-dilutive.

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2023	2022	2023	2022
Options to purchase ordinary shares	9,470,166	8,332,977	10,303,670	7,907,290
RSUs	62,899	521,146	85,648	802,355

## 7.8. INCOME TAXES

During the three and nine months ended September 30, 2023, the Company recorded an income tax benefit of \$0.7 million due to a provision to return adjustment in connection with the recent U.S. tax guidance relating to the capitalization of research March 31, 2024 and development expenditures. During the three and nine months ended September 30, 2022, 2023, the Company recorded no income tax benefit or provision.

The Company maintained a full valuation allowance for the three and nine months ended September 30, 2023 March 31, 2024 and 2022 2023 in all jurisdictions due to uncertainty regarding future taxable income.

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## 8.9. GEOGRAPHIC DATA

Substantially all of the Company's long-lived assets were located in the United States as of September 30, 2023 March 31, 2024 and December 31, 2022 December 31, 2023.

## 9.10. RELATED PARTY TRANSACTIONS

The Company had the following related party transactions:

- In 2012, the Company entered into a consulting agreement for scientific advisory services with Dr. Gregory L. Verdine, one of the Company's founders and a member of the Company's board of directors. The consulting agreement does not have a specific term and may be terminated by either party upon 14 days' prior written notice. Pursuant to the consulting agreement, the Company pays Dr. Verdine approximately \$13 thousand per month, plus reimbursement for certain expenses. In October 2022, the compensation committee of the Company's board of directors granted Dr. Verdine a non-qualified share option for 163,467 ordinary shares in lieu of cash as payment under this consulting agreement for the service period of October 1, 2022 through December 31, 2024, the monthly vesting of which is subject to Dr. Verdine's continued service under the consulting agreement.
- In April 2023, the Company engaged Shin Nippon Biomedical Laboratories Ltd. ("SNBL"), one of the Company's shareholders, to provide approximately \$2.8 million in certain NHP contract research services to the Company. During the nine three months ended September 30, 2023 March 31, 2024, the Company did not make any payments to SNBL. Through March 31, 2024, the Company has paid SNBL \$1.4 million to SNBL for the aforementioned NHP contract research services. During the three months ended September 30, 2023, the Company did not make any payments to SNBL.

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## Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our financial statements and related notes appearing elsewhere in this Quarterly Report on Form 10-Q and in our Annual Report on Form 10-K for the year ended December 31, 2022 December 31, 2023, filed with the Securities and Exchange Commission ("SEC") on March 23, 2023 March 6, 2024, as amended (the "2022 2023 Annual Report on Form 10-K"). Some of the information contained in this discussion and analysis or set forth elsewhere in this Quarterly Report on Form 10-Q, including information with respect to our plans and strategy for our business, includes forward-looking statements that involve risks and uncertainties. As a result of many factors, including those factors set forth in the "Risk Factors" section of this Quarterly Report on Form 10-Q and the "Risk Factor" section of our 2022 2023 Annual Report on Form 10-K, our actual results could differ materially from the results described in, or implied by, these forward-looking statements.

## Overview

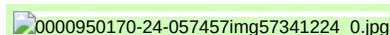
We are a clinical-stage RNA medicines biotechnology company committed to delivering life-changing treatments for people battling devastating diseases. Using PRISM, our proprietary discovery and drug development platform that enables focused on unlocking the precise design, optimization, and production of novel stereopure oligonucleotides, we are working to develop first- or best-in-class medicines that target the transcriptome (the full set broad potential of ribonucleic acid ("RNA") molecules produced from medicines (also known as oligonucleotides), or those targeting RNA, to transform human health. Our RNA medicines platform, PRISM®, combines multiple modalities, chemistry innovation and deep insights into human genetics to deliver scientific breakthroughs that treat both rare and prevalent disorders. Our toolkit of RNA-targeting modalities includes RNA editing, splicing, antisense silencing and RNA interference ("RNAi"), providing us with unique capabilities for designing and sustainably delivering candidates that optimally address disease biology. Our lead programs are in rare and prevalent diseases, including alpha-1 antitrypsin deficiency ("AATD"), obesity, Duchenne muscular dystrophy ("DMD"), and Huntington's disease ("HD").

We were founded on the human genome recognition that there was a significant, untapped opportunity to treat diseases with use chemistry innovation to tune the pharmacological properties of oligonucleotides. Today, we have more than a high degree decade of unmet need. experience challenging convention related to oligonucleotide design and pioneering novel chemistry modifications to optimize the pharmacological properties of our molecules. We have seen preclinically and in clinical trials that these chemistry modifications enhance potency, distribution, and durability of effect of our molecules. Our novel chemistry also allows us to avoid using complex delivery vehicles, such as lipid nanoparticles and viruses, and instead use clinically proven conjugates (e.g., N-acetylgalactosamine or ("GalNAc")) or free uptake for delivery to a variety of cell and tissue types. We maintain strong and broad intellectual property, including for our novel chemistry modifications.

Our RNA-targeting oligonucleotides are designed best-in-class chemistry capabilities have also unlocked new areas of biology, such as harnessing adenosine deaminases acting on RNA ("ADAR") enzymes for messenger RNA ("mRNA") correction and upregulation, selectively silencing a mutant allele, and more. By opening up new areas of biology, we have also opened up new opportunities to correct disease-causing mutations, modulate protein activity, restore slow, stop or reverse disease and have expanded the production of functional proteins or reduce the expression of disease-promoting RNAs or proteins. Data from possibilities offered through our ongoing clinical and preclinical studies has demonstrated significant improvements in potency, durability, and distribution platform.

The inspiration for our oligonucleotides designed through PRISM, compared multimodal platform is based on the recognition that the biological machinery (i.e., enzymes) needed to address human disease already exists within our cells and can be harnessed for therapeutic purposes with competitor chemistries. These data support the right tools. We believe that we have built the most versatile toolkit of RNA-targeting modalities in the industry, with multiple means of repairing, restoring, or reducing proteins and designing best-fit solutions based on the unique biology of a given disease target. We are actively advancing programs in all of our platform as best-in-class for designing and optimizing RNA-targeting medicines. modalities.

Since our inception, we have seen



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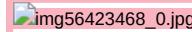
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We intentionally focus on targeting the value of developing RNA-targeting medicines compared to transcriptome using oligonucleotides rather than other nucleic acid therapeutics, including modalities such as gene therapy and DNA editing. By intervening at This focus enables us to:

- Leverage diversity of expression across cell types by modulating the many regulatory pathways that impact gene expression, including transcription, endogenous RNA level, we can modulate the transcriptome to impact RNA, including expression levels interference pathways, splicing, and splicing. We also have the potential to address translation;
- Address diseases that have historically been difficult to treat with small molecules or biologics, while retaining biologics;
- Access a variety of tissue types or cell types throughout the ability to titrate dose, body and modulate duration the frequency of effect, and avoid dosing for broad distribution in tissues over time;

- Avoid the risk of permanent off-target genetic changes and other challenges associated with DNA editing or gene therapy approaches. Oligonucleotides have additional advantages as a therapeutic class, including the ability to access multiple tissue types approaches; and the ability to modulate the frequency of dosing to ensure broad distribution within tissues over time. Oligonucleotides also have
- Leverage well-established industry manufacturing processes and validated test methods based on decades of improvements, as well as established regulatory, access and reimbursement pathways.

Our approach is based on the scientific insight that the biological machinery necessary to address human diseases already exists in human cells and can be harnessed for therapeutic purposes with the right tools. We believe we have built the most versatile RNA medicines platform in the industry as it is comprised of multiple therapeutic modalities, which provides flexibility to design built-for-purpose molecules that enable us to access novel areas of disease biology. These modalities are RNA editing, splicing, RNA interference ("RNAi") and antisense silencing, all of which incorporate proprietary and novel chemistries to optimize the pharmacological properties of our therapeutic oligonucleotides.



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We have a robust and diverse pipeline of potential first- or first-in-class programs. Our clinical programs, are designed to treat high-impact genetic diseases, including those in muscle, liver, and the central nervous system ("CNS"). These programs include: including:

- WVE-N531 (splicing), our exon 53 molecule GalNAc-conjugated oligonucleotides for the treatment of Duchenne muscular dystrophy hepatic and metabolic diseases including:
  - AATD: WVE-006 is a GalNAc-conjugated SERPINA1 RNA editing oligonucleotide; and
  - Obesity: Lead clinical candidate is a GalNAc-conjugated RNAi oligonucleotide targeting inhibin  $\beta$ E ("DMD" INHBE");
- WVE-006 (editing), our SERPINA1 molecule Unconjugated oligonucleotides for the treatment of alpha-1 antitrypsin deficiency ("AATD"); muscle, CNS and other disease areas including:
  - DMD: WVE-N531 is an exon 53 splicing oligonucleotide; and
  - HD: WVE-003 (silencing), our mHTT is a selective mutant huntingtin ("mHTT")-lowering SNP3 molecule for the treatment of Huntington's disease ("HD"). antisense silencing oligonucleotide.

We are also advancing a preclinical, wholly-owned N-acetylglucosamine ("GalNAc") -conjugated RNAi program targeting inhibin  $\beta$ E ("INHBE") for metabolic disorders, including obesity, as well as building a pipeline of novel RNA editing oligonucleotides.

Over the last several years, we have built a leading RNA editing capability. Our A-to-I RNA editing oligonucleotides ("AIMers") enable access to areas of disease biology that are not viable for other therapeutic modalities. Our RNA editing capability affords us the dexterity to address both rare diseases, as well as those diseases impacting large patient populations.

AIMers are designed to target single bases on an RNA transcript and recruit proteins that exist in the body, called ADAR (adenosine deaminases acting on RNA) enzymes, which naturally possess the ability to change an adenine (A) to an inosine (I), which cells read as guanine (G). This approach enables both the correction of G-to-A point mutations as well as the modulation of RNA to either upregulate protein expression, modify protein-protein interactions, or alter RNA folding and processing. AIMers enable simplified delivery and avoid the risk of permanent changes to the genome and irreversible off-target effects with DNA-targeting approaches. AIMers are short in length, fully chemically modified, and use our novel chemistry, including proprietary PN backbone modifications and chiral control, which make them distinct from other ADAR-mediated editing approaches.

Our PRISM platform was built on the recognition that a significant opportunity exists to tune the pharmacological properties of oligonucleotide therapeutics by leveraging three key features of these molecules: sequence, chemistry, and stereochemistry. Our unique ability to control stereochemistry provides the resolution necessary to optimize pharmacological profiles and develop and manufacture stereopure oligonucleotides. Stereopure oligonucleotides are comprised of molecules with atoms precisely and purposefully arranged in three-dimensional orientations at each linkage. These differ from the mixture-based oligonucleotides currently on the market or in development by others. Additionally, to mitigate pharmacological risks and potential manufacturing challenges, our approach focuses on designing short, chemically modified oligonucleotides without the need for complex delivery vehicles. We have also established and continue to enhance our internal current good manufacturing practices ("cGMP") manufacturing capabilities to increase control and visibility of our drug substance supply chain, while continuing to innovate oligonucleotide manufacturing.

PRISM also incorporates our novel, proprietary PN backbone chemistry modifications, which have been shown preclinically and clinically to increase potency, distribution, and durability of effect across our various modalities. PN chemistry is incorporated in all of our current clinical, preclinical and discovery-stage programs.

In December 2022, we announced a strategic collaboration with GlaxoSmithKline Intellectual Property (No. 3) ("GSK") to advance transformative oligonucleotide therapeutics, including WVE-006. The collaboration combines GSK's unique novel genetic insights, in human genetics, as well as its global development and commercial capabilities, with our PRISM platform and oligonucleotide expertise. The collaboration will enable us to continue building a pipeline of first-in-class oligonucleotide-based therapeutics and unlock

new areas of disease biology, as well as realize the full value of WVE-006 as a potential best-in-class treatment for AATD that has the potential to simultaneously address both liver and lung manifestations of the disease.

**The Our GSK collaboration has three components:**

- (1)A discovery collaboration which enables us to advance up to three programs leveraging targets informed by GSK's novel insights, the first of which will target is our INHBE program for obesity and other metabolic disorders, including obesity;
- (2)A discovery collaboration which enables GSK to advance up to eight programs leveraging PRISM and our oligonucleotide expertise and discovery capabilities; capabilities, the first two of which were selected in April 2024; and
- (3)An exclusive global license for GSK to WVE-006, our clinical AATD program, for AATD that uses our proprietary AlMer technology. We will maintain development responsibilities for WVE-006 through completion of the first clinical study, RestorAAtion-2, at which point development and commercial responsibilities will transition to GSK.

On May 23, 2023, we announced topline results from the Phase 1b/2a FOCUS-C9 study and our decision to discontinue clinical development of WVE-004 for C9orf72-associated amyotrophic lateral sclerosis ("ALS") and frontotemporal dementia ("FTD") ("C9-ALS/FTD"). Results from the study indicated that WVE-004 was generally safe and well-tolerated across doses of WVE-004, with most adverse events presenting as mild in intensity. Importantly, robust, sustained reductions in poly(GP) dipeptide proteins from baseline were observed in the cerebrospinal fluid ("CSF"), with a maximal mean reduction of 48% (p<0.0001) in the Q12W dose and 50% (p=0.0001) in the Q4W dose of WVE-004, successfully translating preclinical model pharmacodynamic effects to clinical 20

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biomarker effects. However, no trends in clinical benefit were observed at 24 weeks, and reductions in poly(GP) were not correlated with stabilization or improvement in functional outcomes. Based on these data, and in the absence of biomarkers reasonably likely to predict clinical outcomes, we discontinued development of WVE-004. In July 2023 C9 for ALS/FTD was terminated as a target under the collaboration (the "C9 Target") and consequently Takeda and our rights and obligations under the Takeda Collaboration were terminated with respect to the C9 Target.

#### ***Our Current Programs***



Additional details regarding our lead therapeutic programs are set forth below.

##### ***Duchenne muscular dystrophy ("DMD")***

In DMD, we are advancing WVE-N531, which is designed to skip exon 53 within the dystrophin gene – a therapeutic approach that would address approximately 8-10% of DMD cases. WVE-N531 is designed to cause the cellular splicing machinery to skip over this exon during pre-mRNA processing, which restores the dystrophin mRNA reading frame and enables production of truncated, but functional, dystrophin protein. Exon skipping produces dystrophin from the endogenous dystrophin gene (not micro or mini dystrophin expressed from a vector), under the control of native gene-regulatory elements, resulting in normal expression. WVE-N531 is both our first splicing candidate and our first systemically administered candidate incorporating PN chemistry to be assessed in the clinic.

In December 2022 (data cut-off: December 6, 2022), we announced a positive update from Part A of the Phase 1b/2a proof-of-concept trial of WVE-N531 in three boys with DMD amenable to exon 53 skipping. High muscle concentrations of WVE-N531 and exon skipping were observed six weeks after initiating biweekly multi-dosing at 10 mg/kg, achieving proof-of-concept in the trial. WVE-N531 also appeared safe and well-tolerated.

To evaluate dystrophin protein restoration, we are investigating WVE-N531 in FORWARD-53, the Phase 2 portion of the open-label trial ("Part B"). We expect to initiate dosing in 2023 and plan to enroll up to ten boys. Boys will be dosed at 10 mg/kg biweekly, and we plan to assess dystrophin protein after 24 and 48 weeks of dosing. The primary endpoint will be dystrophin protein levels, and the trial will also evaluate pharmacokinetics, digital and functional endpoints, and safety and tolerability. We expect to deliver data from FORWARD-53 in 2024. Pending positive results from this trial, we are planning to advance a broader DMD pipeline with PN-modified splicing oligonucleotides for skipping other exons, with the goal of providing new treatment options for a larger population of boys with DMD.

##### ***Alpha-1 antitrypsin deficiency ("AATD")***

Our AATD program is the first to leverage our novel RNA editing capability and uses clinically proven GalNAc-conjugated AIMers with subcutaneous dosing. (RNA editing oligonucleotides) and endogenous ADAR enzymes to correct a single base in the mutant SERPINA1 mRNA. By correcting the single RNA base mutation that causes a majority of AATD cases with the Pi\*ZZ

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phenotype genotype (approximately 200,000 in the United States and Europe), RNA editing may provide an ideal approach for increasing circulating levels of wild-type Alpha-1 antitrypsin ("AAT") protein and reducing mutant protein aggregation in the liver, thus simultaneously addressing both the lung and liver manifestations of the disease.

In the third quarter of 2022, we announced WVE-006 as our development candidate for AATD. WVE-006 is first-in-class in AATD and is the most advanced program currently in development using an oligonucleotide to harness an endogenous enzyme for RNA editing. In the fourth quarter of 2023, we announced the initiation of initiated our RestorAATion clinical program investigating WVE-006 as a treatment for alpha-1 antitrypsin deficiency ("AATD") and approval of our multiple clinical trial applications ("CTAs") for WVE-006. The RestorAATion clinical program will include includes both healthy volunteers (RestorAATion-1) ("RestorAATion-1"), as well as individuals patients with AATD who have the homozygous PiZZ Pi\*ZZ mutation (RestorAATion-2) ("RestorAATion-2") and is designed to provide an efficient path to proof-of-mechanism as measured by restoration of wild-type alpha-1 antitrypsin ("M-AAT") protein in serum. We RestorAATion-2 is a Phase 1b/2a open label study designed to evaluate the safety, tolerability, pharmacodynamics (PD) and pharmacokinetics (PK) of WVE-006 in individuals with AATD who have the homozygous Pi\*ZZ mutation. The trial includes both single ascending dose ("SAD") and multiple ascending dose ("MAD") portions. In April 2024, we announced that we had received approval for our first CTA for RestorAATion-2. RestorAATion-2 is underway and we expect to initiate dosing with WVE-006 in healthy volunteers in the fourth quarter of 2023 and deliver proof-of-mechanism data in individuals patients with AATD in 2024.

Under the our GSK collaboration, GSK received the an exclusive global license for WVE-006, with clinical development and commercial responsibilities transitioning to GSK after we complete the RestorAATion-2 trial. In December 2023, we announced that we achieved the first clinical trial. WVE-006 milestone in our collaboration with GSK, resulting in a \$20 million payment. Under the terms of the collaboration, we are eligible to receive up to \$525 million \$505 million in additional development, launch, and sales-related milestones, commercial milestone payments, as well as double-digit tiered royalties up to the high teens, as a percentage of net sales up to the high teens, for WVE-006.

Preclinical data show that treatment with WVE-006 resulted in approximately 50% RNA editing of SERPINA1 transcript and approximately 7-fold greater serum AAT protein levels (well above the predicted protective threshold of 11uM) at 13 weeks up to 30 micromolar in an established AATD mouse model (NSG-PiZ). WVE-006 also led to restoration of approximately 50% wild-type M-AAT protein in serum and a 3-fold increase in neutrophil elastase inhibition activity, indicating that the restored M-AAT protein was functional. Wave's AATD AIMers are highly specific to SERPINA1 RNA *in vitro* and *in vivo* based on transcriptome-wide analyses.

If we are successful in the clinic with WVE-006, we will both validate our clinical approach to AATD as well as validate and demonstrate the feasibility of RNA editing as a therapeutic modality in humans.

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#### Obesity and Other Metabolic Disorders

Our first wholly owned program to emerge from our collaboration with GSK is a GalNAc-conjugated siRNA silencing program targeting INHBE for obesity. There are approximately 174 million people in the United States and Europe with obesity, and therapeutic options beyond GLP-1 receptor agonists are needed. GLP-1 receptor agonists lead to weight loss at the expense of muscle, suppress the general reward system, and are associated with a poor tolerability profile, with 68% drop-off after one year. Heterozygous INHBE loss-of-function human carriers exhibit a healthy metabolic profile, including reduced waist-to-hip ratio and reduced odds of developing type 2 diabetes or coronary artery disease, and reduction of INHBE by 50% or more is expected to restore a healthy metabolic profile. In connection with our 2023 Research and Development Day, we shared *in vivo* proof of concept data in diet-induced obesity mice demonstrating INHBE silencing well beyond the anticipated 50% therapeutic threshold, which led to substantially lower body weight and reduction of visceral fat as compared to controls. These are the first data to demonstrate INHBE silencing *in vivo* in an animal model is consistent with the phenotypes of heterozygous loss-of-function carriers.

In March 2024, we announced the selection of our INHBE lead clinical candidate, which utilizes our next generation GalNAc-siRNA format. This next generation format results in more potent and durable siRNA silencing and when applied to our INHBE program resulted in: 1) highly potent INHBE silencing (ED50 < 1 mg/kg), durable silencing following one, low-single digit dose in a diet-induced obesity ("DIO") mouse model supporting every-six-month or annual subcutaneous dosing; 2) weight loss with no loss of muscle mass; and 3) reduction in fat mass, with preferential effect to the visceral fat, consistent with the profile of INHBE LoF in human genetics. In an ongoing, head-to-head study in DIO mice, we have observed a weight loss effect from a single dose of our INHBE GalNAc-siRNA similar to semaglutide. In addition, treatment with our INHBE GalNAc-siRNA upon cessation of semaglutide treatment curtailed expected rebound weight gain. We expect to initiate a clinical trial for our INHBE candidate in the first quarter of 2025.

#### Duchenne muscular dystrophy ("DMD")

In DMD, we are advancing WVE-N531, which is designed to skip exon 53 within the dystrophin gene – a therapeutic approach that would address approximately 8-10% of DMD cases. WVE-N531 is designed to cause the cellular splicing machinery to skip over exon 53 during pre-mRNA processing, which restores the dystrophin mRNA reading frame and enables production of a truncated, but functional, dystrophin protein. Exon skipping produces dystrophin from the endogenous dystrophin gene (not micro or mini dystrophin expressed from a foreign vector), under the control of native gene-regulatory elements, resulting in normal expression. WVE-N531 is our first splicing candidate incorporating PN backbone ("PN") chemistry to be assessed in the clinic.

In December 2022 (data cut-off: December 6, 2022), we announced a positive update from Part A of the Phase 1b/2a proof-of-concept, open label trial of WVE-N531 in three boys with DMD amenable to exon 53 skipping. High muscle concentrations of WVE-N531 and exon skipping were observed six weeks after initiating multi-dosing at 10 mg/kg every other week, achieving proof-of-concept in the trial. WVE-N531 also appeared safe and well-tolerated.

In September 2023, we shared an analysis of muscle biopsy data from the Part A proof-of-concept trial indicating that WVE-N531 was present in myogenic stem cells, which are integral to muscle regeneration. This is the first demonstration of uptake in myogenic stem cells in a clinical study and supports the potential differentiation of WVE-N531 from other therapeutics, including gene therapies.

In December 2023, we initiated dosing of WVE-N531 in FORWARD-53, the Phase 2 portion of the open-label trial ("Part B"). In Part B, boys are being dosed at 10 mg/kg every other week, and we plan to assess dystrophin protein after 24 and 48 weeks of dosing. The primary endpoint will be dystrophin protein levels, and the trial will also evaluate pharmacokinetics, digital and functional endpoints, and safety and tolerability. We expect to deliver data from FORWARD-53, including dystrophin protein expression from muscle biopsies taken after 24 weeks of treatment, in the third quarter of 2024. Pending positive results from this trial, we are planning to advance a broader DMD pipeline with PN-modified splicing oligonucleotides designed to skip other exons, with the goal of providing new treatment options for a larger population of boys with DMD.

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#### Huntington's disease ("HD")

In HD, we are currently advancing WVE-003, a stereopure antisense oligonucleotide designed to selectively target an undisclosed single nucleotide polymorphism ("SNP"), "mHTT SNP3", associated with the disease-causing **mutant huntingtin ("mHTT")** mRNA transcript within the *Huntingtin ("HTT")* gene. Approximately 40% of the HD population carries SNP3 according to published literature (Carroll et al., Molecular Therapy, 2011).

WVE-003 incorporates our novel PN **chemistry, as well as learnings from our first-generation HD programs, chemistry**. Targeting mRNA with SNP3 allows us to lower expression of transcript from the mutant allele, while leaving the healthy transcript relatively intact, thereby preserving wild-type (healthy) huntingtin ("wtHTT") protein, which is important for neuronal function. **Only an allele-selective approach to mHTT lowering has the potential to both protect the reservoir of wtHTT protein and decrease the mHTT to wtHTT ratio in neurons, potentially releasing wtHTT from the inhibitory actions of mHTT.** Our allele-selective approach may also enable us to address the **pre-manifest, or asymptomatic, premanifest HD patient population in the future.** In preclinical studies, WVE-003 showed dose-dependent and selective reduction of mHTT mRNA *in vitro*, as well as potent and durable knockdown of mHTT mRNA and protein *in vivo* in mouse models.

The SELECT-HD trial, **which incorporates learnings from our prior HD programs**, is a multicenter, randomized, double-blind, placebo-controlled Phase 1b/2a clinical trial to assess the safety and tolerability of intrathecally administered WVE-003 for patients with early manifest HD. Additional objectives include measurement of mHTT and wtHTT protein **in cerebrospinal fluid ("CSF")** and exploratory pharmacokinetic, pharmacodynamic, clinical and magnetic resonance imaging ("MRI") endpoints. The SELECT-HD trial is designed to be adaptive, with dose level and dosing frequency being guided by an independent committee.

In September 2022 (data cut-off: August 29, 2022), we announced a positive update from SELECT-HD driven by the observation of reductions in **mean CSF mHTT protein in cerebrospinal fluid ("CSF")** after trial participants received either a single 30 or 60 mg dose of WVE-003. Additionally, wtHTT protein levels appeared consistent with allele-selectivity. Single doses (30 mg, 60 mg, and 90 mg) of WVE-003 appeared generally safe and well-tolerated. Based on the SELECT-HD data, we adapted the trial to expand the single-dose cohorts, and the multi-dose portion is underway.

We have completed enrollment in the 30 mg multi-dose cohort, which is evaluating doses of WVE-003 administered every eight weeks. **Having rolled over patients from the single-dose cohort weeks, and fully enrolled the 30 mg multi-dose cohort, we will now plan to evaluate the completed single-dose and multi-dose cohorts simultaneously.** We expect to report data from the 30 mg multi-dose cohort with extended follow-up, along with all single-dose data, in the second quarter of 2024. These data are expected to **enable form the basis for decision making on the for our advancement of this program, and support our including supporting an opt-in package for Takeda, Takeda Pharmaceutical Company Limited ("Takeda").**

In the third quarter of 2023, we achieved a milestone in our collaboration with Takeda, which pertained to the positive results from a non-clinical study of WVE-003 in non-human primates ("NHPs") and resulted in a payment of \$7.0 million to **Wave us** in the fourth quarter of 2023. This study showed significant tissue exposure levels of WVE-003 in the deep brain regions, including striatum and bolstered our existing datasets that confirm the ability of our oligonucleotides to distribute to the areas of the CNS important for HD.

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#### Metabolic disorders, including obesity

In September 2023, in connection with our Research and Development ("R&D") Day, we announced our first wholly owned program emerging from our collaboration with GSK, a GalNAc-conjugated siRNA silencing program targeting INHBE for metabolic disorders, including obesity. There are approximately 47 million people in the United States and Europe with metabolic disorders, including obesity, and therapeutic options beyond GLP-1 receptor agonists are needed. GLP-1 receptor agonists lead to weight loss at the expense of muscle, suppress general reward system, and are associated with poor tolerability profile, with 68% drop-off after 1 year. INHBE loss-of-function heterozygous human carriers exhibit a healthy metabolic profile, including reduced waist-to-hip ratio and reduced odds of type 2 diabetes and coronary artery disease, and INHBE reduction of 50% or greater is expected to restore a healthy metabolic profile. In connection with R&D Day, we shared *in-vivo* proof of concept data achieving INHBE silencing well beyond the 50% therapeutic threshold, which led to substantially lower body weight and reduction of visceral fat in diet-induced obesity mice as compared to control. These are the first data to demonstrate INHBE silencing *in vivo* is consistent with the phenotypes of heterozygous loss-of-function carrier. We have identified potent and highly specific leads and expect to select an INHBE clinical candidate in the fourth quarter of 2024.

#### Discovery pipeline Pipeline

We are advancing new targets across multiple disease areas **in light to expand our pipeline of wholly owned programs. Our compelling preclinical data indicating indicates** our oligonucleotides can distribute to various tissues and cells without complex delivery **vehicles. With AATD, vehicles**, enabling us to address a wide variety of diseases, including pulmonary and renal diseases. Within RNA editing, we have demonstrated **preclinically** that we can edit to correct monogenic diseases by restoring or correcting protein function. In September 2023, in connection with our R&D Day, we demonstrated that we can build **function for the treatment of AATD. Building** on our work **on in AATD, we have demonstrated our ability** to address **larger more prevalent** diseases by editing RNA to upregulate or increase the stability of the mRNA transcript, thereby increasing endogenous protein production. We announced that we are utilizing a **Utilizing our** proprietary "edit-verse," which is powered by genetic datasets and deep learning models, to **identify new** we have identified several RNA editing targets and edit sites. These targets **that** leverage easily accessible biomarkers, offer efficient paths to proof-of-concept in humans, and represent meaningful commercial opportunities. We demonstrated preclinical proof-of-concept data on several of these new targets **in 2023**, achieving at least 2-fold mRNA upregulation in liver and kidney targets and more than 60% mRNA correction in liver and lung targets. **Also at R&D Day, we announced that we expect to select five new clinical candidates by the end of 2025, including INHBE.**

In April 2023, we announced the publication of preclinical data for our novel small interfering RNA ("siRNA") formats in the journal of Nucleic Acids Research. The preclinical data demonstrated unprecedented Argonaute2 ("Ago2") loading following administration of single subcutaneous GalNAc-siRNA dose, leading to improved potency and durability *in vivo* versus comparator siRNA formats.

We have also demonstrated the potential of our siRNA to silence targets in extra-hepatic tissues. In the first quarter of 2023, we announced data from our first *in vivo* siRNA study in the central nervous system ("CNS"), where our unconjugated siRNA constructs demonstrated 70-90% App silencing across six brain regions in mouse CNS at eight weeks, following a single intracerebroventricular (ICV) dose. In September 2023, in connection with our R&D Day, we announced updated data demonstrating sustained App silencing in CNS of at least 75% through a 16-week *in vivo* study following a single dose of our unconjugated siRNA.

Through our collaboration with GSK, we are **gaining access to proprietary genetic** leveraging GSK's novel genetics insights to expand our wholly-owned pipeline. **wholly owned pipeline, with the first being our INHBE program.** In addition, we and GSK are actively working on multiple target validation programs for our GSK-partnered programs, for which all of our costs and expenses are prepaid by GSK. **In April 2024, GSK selected its first two programs to advance to development candidates following achievement of target validation, triggering an aggregate initiation payment of \$12 million from GSK. These programs utilize our next generation GalNAc-siRNA format and are in hepatology.**

We expect to select five new clinical candidates by the end of 2025, including our INHBE candidate for obesity.

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#### **Financial Operations Overview**

We have never been profitable, and since our inception, we have incurred significant operating losses. Our net **income loss** was \$31.6 million and \$27.4 million for the three months ended **September 30, 2023** was \$7.3 million **March 31, 2024** and **our net loss for the three months ended September 30, 2022 was \$39.0 million. Our net loss for the**

nine months ended September 30, 2023 and 2022 was \$41.3 million and \$118.1 million, respectively. As of September 30, 2023 March 31, 2024 and December 31, 2022 December 31, 2023, we had an accumulated deficit of \$1,008.6 million \$1,056.4 million and \$967.3 million \$1,024.9 million, respectively. We expect to continue to incur significant expenses and operating losses for the foreseeable future.

#### **Revenue**

We recognize collaboration revenue under the GSK Collaboration Agreement, which became effective in January 2023, and the Takeda Collaboration Agreement, (as which became effective in April 2018 (both of which are defined in Note 5 - Collaboration Agreements in the notes to our consolidated financial statements appearing elsewhere in this Quarterly Report on Form 10-Q), which became effective in April 2018. We have not generated any product revenue since our inception and do not expect to generate any revenue from the sale of products for the foreseeable future.

#### **Operating Expenses**

Our operating expenses since inception have consisted primarily of research and development expenses and general and administrative expenses.

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#### **Research and Development Expenses**

Research and development expenses consist primarily of costs incurred for our research activities, including our discovery efforts, and the development of our product candidates, which include:

- compensation-related expenses, including employee salaries, bonuses, share-based compensation expense and other related benefits expenses for personnel in research and development organization;
- expenses incurred under agreements with third parties, including contract research organizations ("CROs") that conduct research, preclinical and clinical activities on our behalf, as well as contract manufacturing organizations ("CMOs") that manufacture drug product for use in our preclinical studies and clinical trials;
- expenses incurred related to our internal manufacturing of drug substance for use in our preclinical studies and clinical trials;
- expenses related to compliance with regulatory requirements;
- expenses related to third-party consultants;
- research and development supplies and services expenses; and
- facility-related expenses, including rent, maintenance and other general operating expenses.

We recognize research and development costs as incurred. We recognize external development costs based on an evaluation of the progress to completion of specific tasks using information provided to us by our vendors. Payments for these activities are based on the terms of the individual agreements, which may differ from the pattern of costs incurred, and are reflected in our financial statements as prepaid or accrued expenses.

Our primary research and development focus since inception has been the development of our proprietary discovery and drug development RNA medicines platform, PRISM. We are using PRISM, which includes our novel PN backbone chemistry modifications, to design, develop and commercialize a broad pipeline of nucleic acid therapeutic candidates that target first- or best- in class RNA medicines using RNA editing, RNAi, splicing, and silencing, antisense modalities.

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Our research and development expenses consist primarily of expenses related to our CROs, CMOs, consultants, other external vendors and fees paid to global regulatory agencies to conduct our clinical trials, in addition to compensation-related expenses, internal manufacturing expenses, facility-related expenses and other general operating expenses. These expenses are incurred in connection with research and development efforts and our preclinical studies and clinical trials. We track certain external expenses on a program-by-program basis. However, we do not allocate compensation-related expenses, internal manufacturing expenses, equipment repairs and maintenance expense, facility-related expenses or other operating expenses to specific programs. These expenses, which are not allocated on a program-by-program basis, are included in the "PRISM and other" "Other" research and development expenses<sup>(1)</sup>, including INHBE, RNA editing, PRISM, others" category along with other external expenses related to our discovery and development programs, as well as platform development and identification of potential drug discovery candidates.

Product candidates in later stages of clinical development generally have higher development costs than those in earlier stages of clinical development, primarily due to the increased size and duration of later-stage clinical trials. We expect to continue to incur significant research and development expenses in the foreseeable future as we continue to manage our existing clinical trials, initiate additional clinical trials for certain product candidates, pursue later stages of clinical development for certain product candidates, maintain our manufacturing capabilities and continue to discover and develop additional product candidates in multiple therapeutic areas.

### **General and Administrative Expenses**

General and administrative expenses consist primarily of compensation-related expenses, including salaries, bonuses, share-based compensation and other related benefits costs for personnel in our executive, finance, corporate, legal and administrative functions, as well as compensation-related expenses for our board of directors. General and administrative expenses also include legal fees; expenses associated with being a public company; professional fees for accounting, auditing, tax and consulting services; insurance costs; travel expenses; other operating costs; and facility-related expenses.

### **Other Income, Net**

Other income, net is comprised primarily of dividend income and refundable tax credits from tax authorities. We recognize refundable tax credits when there is reasonable assurance that we will comply with the requirements of the refundable tax credit and that the refundable tax credit will be received.

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### **Income Taxes**

We are a Singapore multi-national company subject to taxation in the United States and various other jurisdictions.

### **Critical Accounting Policies and Significant Judgments and Estimates**

Our consolidated financial statements are prepared in accordance with generally accepted accounting principles in the United States of America. The preparation of our financial statements and related disclosures requires us to make estimates and assumptions that affect the reported amount of assets, liabilities, revenue, costs and expenses and related disclosures. Management considers many factors in selecting appropriate financial accounting policies and in developing the estimates and assumptions that are used in the preparation of the financial statements. Management must apply significant judgment in this process. We believe that our revenue recognition policy, particularly (a) assessing the number of performance obligations; (b) determining the transaction price; (c) allocating the transaction price to the performance obligations in the contract; and (d) determining the pattern over which performance obligations are satisfied, including estimates to complete performance obligations, and the assumptions and estimates used in our analysis of contracts with CROs and CMOs to estimate the contract expense, involve a greater degree of judgment, and therefore we consider them to be our critical accounting policies. We evaluate our estimates and assumptions on an ongoing basis. Our actual results may differ from these estimates under different assumptions and conditions.

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### **Results of Operations**

#### **Comparison of the three months ended September 30, 2023 March 31, 2024 and 2022 2023**

	Three Months Ended September 30,			Three Months Ended March 31,		
	2023	2022	Change	2024	2023	Change
	(in thousands)			(in thousands)		
Revenue	\$ 49,214	\$ 285	\$ 48,929	\$ 12,538	\$ 12,929	\$ (391)
Operating expenses:						
Research and development	31,642	27,575	4,067	33,447	30,979	2,468
General and administrative	13,128	11,609	1,519	13,549	12,235	1,314
Total operating expenses	44,770	39,184	5,586	46,996	43,214	3,782
Income (loss) from operations	4,444	(38,899)	43,343			
Total other income (expense), net	2,131	(105)	2,236			
Income (loss) before income taxes	6,575	(39,004)	45,579			
Loss from operations				(34,458)	(30,285)	(4,173)
Total other income, net				2,900	2,880	20
Loss before income taxes				(31,558)	(27,405)	(4,153)
Income tax benefit (provision)	677	—	677	—	—	—

Net income (loss)	\$ 7,252	\$ (39,004)	\$ 46,256
Net loss		\$ (31,558)	\$ (27,405)

#### Revenue

Revenue for the three months ended September 30, 2023 March 31, 2024 and 2023 was \$49.2 million \$12.5 million and was \$12.9 million, respectively, and is comprised of revenue earned under the GSK Collaboration Agreement and the Takeda Collaboration Agreement. Revenue for the three months ended September 30, 2022 was \$0.3 million and was earned primarily under the Takeda Collaboration Agreement, as the GSK Collaboration Agreement became effective in January 2023. The year-over-year increase in revenue is driven by the \$28.0 million of revenue related to the termination of the C9 program and the \$7.0 million of revenue related to the achievement of a development milestone under the Takeda Collaboration Agreement, as well as the revenue that was earned under the GSK Collaboration Agreement which became effective was consistent year-over-year. There was a slight decrease in January 2023.

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the revenue earned under the Takeda Collaboration Agreement year-over-year.

#### Research and Development Expenses

	Three Months Ended			Three Months Ended March 31,			Change	
	September 30,		Change	2024		2023		
	2023	2022		(in thousands)				
ALS and FTD program			(58)					
	\$ 2,564	\$ 3,153	\$ 9)					
AATD program				\$ 3,193	\$ 1,568	\$ 1,625		
DMD programs				3,051	314	2,737		
HD programs			1,1					
	2,873	1,732	41	2,379	3,322	(943)		
DMD programs	1,528	796	732					
AATD program			1,9					
	2,204	281	23					
PRISM and other research and development expenses (1)	22,473	21,613	860					
Other research and development expenses <sup>(1)</sup> , including INHBE,								
RNA editing, PRISM, others				24,779	23,058	1,721		
ALS and FTD programs (discontinued)				45	2,717	(2,672)		
Total research and development expenses			4,0					
	\$ 31,642	\$ 27,575	\$ 67	\$ 33,447	\$ 30,979	\$ 2,468		

(1) Includes expenses related to discovery other research and development programs, identification of potential drug discovery candidates, compensation, compensation-related expenses, internal manufacturing expenses, equipment repairs and maintenance facilities expense, facility-related expenses and other operating expenses, which are not allocated to specific programs.

Research and development expenses were \$31.6 million \$33.4 million for the three months ended September 30, 2023 March 31, 2024, compared to \$27.6 million \$31.0 million for the three months ended September 30, 2022 March 31, 2023. The increase of approximately \$4.1 million \$2.5 million was due to the following:

- a decrease in external expenses related to our ALS and FTD AATD program, WVE-004 (PN-modified silencing oligonucleotide) which we discontinued in May 2023; WVE-006 (RNA editing);
- an increase of \$1.1 million \$2.7 million in external expenses related to our DMD programs, including WVE-N531 (splicing);
- a decrease of \$0.9 million in external expenses related to our HD programs, including WVE-003 (PN-modified silencing oligonucleotide) (silencing);
- an increase of \$0.7 million \$1.7 million in external other research and development expenses related to our DMD programs,<sup>(1)</sup> including WVE-N531 (PN-modified splicing oligonucleotide);
- an increase of \$1.9 million in external expenses related to our AATD program, WVE-006 (PN-modified INHBE, RNA editing, oligonucleotide); PRISM, and
- an increase of \$0.9 million in other internal and external research and development expenses that are not allocated on a program-by-program basis and or are related to other discovery and development programs, including PRISM and the identification of potential drug discovery candidates, mainly due to increases in compensation.

related expenses. expenses and other external research and development expenses, partially offset by decreases in facilities-related expenses; and a decrease of \$2.7 million in external expenses related to our discontinued ALS and FTD program, WVE-004.

#### General and Administrative Expenses

General and administrative expenses were \$13.1 million \$13.5 million for the three months ended September 30, 2023 March 31, 2024, as compared to \$11.6 million \$12.2 million for the three months ended September 30, 2022 March 31, 2023. The increase is primarily driven by increases in professional fees and other external general and administrative expenses.

#### Other Income, (Expense), Net

Other income, net for For the three months ended September 30, 2023 March 31, 2024 and 2023, other income, net was \$2.1 million \$2.9 million for both periods and consisted primarily of dividend income. Other expense, net for the three months ended September 30, 2022 was \$0.1 million and was comprised of foreign exchange losses and other expenses, partially offset by dividend income and estimated refundable tax credits. The increase in other income year-over-year was primarily driven by an increase in dividend income and a decrease in foreign exchange losses.

#### Income Tax Benefit (Provision) Provision

During the three months ended September 30, 2023, March 31, 2024 and 2023, we recorded an no income tax benefit of \$0.7 million due to a provision to return adjustment in connection with the recent U.S. tax guidance relating to the capitalization of research and development expenditures. During the three months ended September 30, 2022, we did not record an income tax benefit or provision.

We maintained a full valuation allowance for the three months ended September 30, 2023 March 31, 2024 and 2022 2023 in all jurisdictions due to uncertainty regarding future taxable income.

#### Comparison of the nine months ended September 30, 2023 and 2022

	Nine Months Ended September 30,			Change
	2023	2022	(in thousands)	
Revenue	\$ 84,249	\$ 2,410	\$ 81,839	
Operating expenses:				
Research and development	95,935	84,778		11,157
General and administrative	37,628	36,789		839
Total operating expenses	133,563	121,567		11,996
Income (loss) from operations	(49,314)	(119,157)		69,843
Total other income (expense), net	7,380	1,043		6,337
Income (loss) before income taxes	(41,934)	(118,114)		76,180
Income tax benefit (provision)	677	—		677
Net income (loss)	\$ (41,257)	\$ (118,114)	\$ 76,857	
<b>Revenue</b>				

Revenue for the nine months ended September 30, 2023 was \$84.2 million and was earned under the GSK Collaboration Agreement and the Takeda Collaboration Agreement. Revenue for the nine months ended September 30, 2022 was \$2.4 million and was primarily earned under the Takeda Collaboration Agreement, as the GSK Collaboration Agreement became effective in January 2023. The year-over-year increase in revenue is driven by the \$47.4 million in revenue that was earned under the GSK Collaboration Agreement, which became effective in January 2023, as well as the \$28.0 million of revenue recognized related to the termination of the C9 program and the \$7.0 million related to the achievement of a development milestone under the Takeda Collaboration Agreement.

#### Research and Development Expenses

	Nine Months Ended September 30,			Change
	2023		2022	
	(in thousands)			
ALS and FTD program	\$ 8,614	\$ 8,240	\$ 374	
HD programs	10,290	5,178	5,112	
DMD programs	4,097	1,613	2,484	
AATD program	5,930	2,133	3,797	
PRISM and other research and development expenses (1)	67,004	67,614	(610)	
Total research and development expenses	\$ 95,935	\$ 84,778	\$ 11,157	

(1) Includes expenses related to discovery and development programs, identification of potential drug discovery candidates, compensation, internal manufacturing, equipment repairs and maintenance, facilities and other operating expenses, which are not allocated to specific programs.

Research and development expenses were \$95.9 million for the nine months ended September 30, 2023, compared to \$84.8 million for the nine months ended September 30, 2022. The increase of approximately \$11.2 million was due to the following:

- an increase of \$0.4 million in external expenses related to our ALS and FTD program, WVE-004 (PN-modified silencing oligonucleotide), which we discontinued in 2023;
- an increase of \$5.1 million in external expenses related to our HD programs, including WVE-003 (PN-modified silencing oligonucleotide);
- an increase of \$2.5 million in external expenses related to our DMD programs, including WVE-N531 (PN-modified splicing oligonucleotide);
- an increase of \$3.8 million in external expenses related to our AATD program, WVE-006 (PN-modified RNA editing oligonucleotide); and
- a decrease of \$0.6 million in internal and external research and development expenses that are not allocated on a program-by-program basis and are related to other discovery and development programs, including PRISM and the identification of potential drug discovery candidates, primarily due to decreases in external research and development expenses and depreciation expenses, partially offset by increased facilities-related expenses and compensation-related expenses.

#### General and Administrative Expenses

General and administrative expenses were \$37.6 million for the nine months ended September 30, 2023, as compared to approximately \$36.8 million for the nine months ended September 30, 2022. The increase of \$0.8 million was primarily due to increases in external general and administrative expenses.

#### Other Income (Expense), Net

Other income, net for the nine months ended September 30, 2023 was \$7.4 million and consisted primarily of dividend income, as well as estimated refundable tax credits. Other income, net for the nine months ended September 30, 2022 was \$1.0 million and primarily related to estimated refundable tax credits. The increase year-over-year was primarily driven by an increase in dividend income.

#### Income Tax Benefit (Provision)

During the nine months ended September 30, 2023, we recorded an income tax benefit of \$0.7 million due to a provision to return adjustment in connection with the recent U.S. tax guidance relating to the capitalization of research and development expenditures. During the nine months ended September 30, 2022, we did not record an income tax benefit or provision.

We maintained a full valuation allowance for the nine months ended September 30, 2023 and 2022 in all jurisdictions due to uncertainty regarding future taxable income.

#### Liquidity and Capital Resources

Since our inception, we have not generated any product revenue and have incurred recurring net operating losses. To date, we have primarily funded our operations through public and other registered offerings of our ordinary shares and other securities, collaborations with third parties and private placements of debt and equity securities. Through September 30, 2023 March 31, 2024, we have received an aggregate of approximately \$1,194.3 million \$1,330.2 million in net proceeds from these transactions, consisting of

\$634.0 million \$741.6 million in net proceeds from public and other registered offerings of our ordinary shares \$471.0 million and other securities, \$499.3 million from our collaborations and \$89.3 million in net proceeds from private placements of our debt and equity securities.

In January 2024, the representatives of the underwriters in connection with the previously disclosed underwritten public offering (the "December 2023 Offering") exercised their option to purchase an additional 3,000,000 ordinary shares at a price of \$5.00 per ordinary share as a part of the December 2023 Offering. We received an additional \$14.0 million in net proceeds from the December 2023 Offering in January 2024.

As of September 30, 2023 March 31, 2024, we had cash and cash equivalents totaling \$139.9 million \$180.9 million, restricted cash of \$3.7 million and an accumulated deficit of \$1,008.6 million \$1,056.4 million.

We expect that our existing cash and cash equivalents will be sufficient to fund our operations for at least the next twelve months. We have based this expectation on assumptions that may prove to be incorrect, and we may use our available capital resources sooner than we currently expect. In addition, we may elect to raise additional funds before we need them if the conditions for raising capital are favorable due to market conditions or strategic considerations, even if we expect we have sufficient funds for our current or future operating plans.

Our operating lease commitments as of September 30, 2023 March 31, 2024 total approximately \$39.9 million \$36.1 million, of which \$1.5 million \$7.0 million is related to payments in 2023 2024 and \$38.4 million approximately \$29.1 million is related to payments beyond 2023 2024.

Until we can generate significant revenue from product sales, if ever, we expect to continue to finance our operations through a combination of public or private equity or debt financings or other sources, which may include collaborations with third parties. In May 2019, we filed a shelf registration statement on Form S-3ASR with the SEC pursuant to which we registered for sale an indeterminate amount of any combination of our ordinary shares, debt securities, warrants, rights and/or units from time to time and at prices and on terms that we may determine. Our shelf registration statement on Form S-3ASR also included a prospectus covering up to an aggregate of \$250.0 million in ordinary shares that we may could issue and sell from time to time, through Jefferies LLC ("Jefferies") acting as our sales agent, pursuant to the open market sales agreement that we entered into with Jefferies in May 2019, as amended in March 2020 and March 2022 (as amended, the (the "Sales Agreement"), for our "at-the-market" equity program. Since we no longer qualified as a "well-known seasoned issuer" at the time of the filing of our Annual Report on Form 10-K for the year ended December 31, 2019, we previously amended the shelf registration statement to register for sale up to \$500.0 million of any combination of our ordinary shares, debt securities, warrants, rights and/or units from time to time and at prices and on terms that we may determine, including the \$250.0 million in ordinary shares that we may issue and sell from time to time pursuant to our "at-the-market" equity program. This registration statement, which we refer to as the "2019 Form S-3," remained effective until our 2022 Form S-3 (as defined below) was declared effective on May 4, 2022, after which time we may no longer offer or sell any securities under the 2019 Form S-3.

On March 3, 2022, we filed a new universal shelf registration on Form S-3 with the SEC, which was declared effective by the SEC on May 4, 2022, pursuant to which we registered for sale up to \$500.0 million of any combination of our ordinary shares, debt securities, warrants, rights and/or units from time to time and at prices and on terms that we may determine, which we refer to as the "2022 Form S-3." The 2022 Form S-3 includes a prospectus covering up to approximately \$132.0 million in ordinary shares that had not yet been issued or sold under our Sales Agreement with Jefferies. During Jefferies at the nine months ended September 30, 2023, we sold 751,688 ordinary shares under our at-the-market equity program for aggregate gross proceeds of \$3.3 million. time the 2022 Form S-3 was declared effective. As of September 30, 2023 March 31, 2024, we have \$426.7 million \$311.7 million in securities available for issuance under the 2022 Form S-3, including approximately \$128.7 million in ordinary shares available for issuance under our at-the-market equity program.

Adequate additional financing may not be available to us on acceptable terms, or at all. Our inability to raise capital as and when needed would have a negative impact on our financial condition and our ability to pursue our business strategy. We will need to generate significant revenue to achieve profitability, and we may never do so.

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## Cash Flows

The following table summarizes our cash flow activity:

	Nine Months Ended September 30,		Three Months Ended March 31,	
	2023		2024	
	(in thousands)		(in thousands)	
Net cash provided by (used in) operating activities	\$ 13,808	\$ (94,341)	\$ (33,432)	\$ 85,522
Net cash used in investing activities	(759)	(26,095)	(417)	(489)
Net cash provided by financing activities	38,572	67,133	14,510	35,053

Effect of foreign exchange rates on cash, cash equivalents and restricted cash	(153)	(304)
Net increase (decrease) in cash, cash equivalents and restricted cash	\$ 51,468	\$ (53,607)
Effect of foreign exchange rates on cash, cash equivalents, and restricted cash		(74)
Net increase (decrease) in cash, cash equivalents, and restricted cash		\$ (19,413) \$ 120,065

#### Operating Activities

During the **nine** three months ended **September 30, 2023** **March 31, 2024**, operating activities **provided \$13.8 million** **used \$33.4 million** of cash, due to our net loss of **\$41.3 million**, offset by non-cash charges of **\$14.5 million** **\$31.6 million** and changes in operating assets and liabilities of **\$40.6 million** **\$6.9 million**, offset by non-cash charges of **\$5.1 million**. The largest non-cash charge was the **\$7.4 million** of share-based compensation. The largest change changes in operating assets and liabilities was a **\$62.3 million** were the **\$21.1 million** decrease in accounts receivable related to collection of accounts receivable under the GSK Collaboration Agreement, the **\$12.5 million** decrease in deferred revenue, and the **\$10.2 million** decrease in accrued expenses and other current liabilities.

During the three months ended March 31, 2023, operating activities provided \$85.5 million of cash, primarily due to the **\$126.4 million** increase in deferred revenue, mainly driven by our GSK Collaboration Agreement, which became effective in January 2023, which was partially offset by the second largest change in operating assets and liabilities, the **\$7.0 million** increase in accounts receivable related to the achievement of a milestone under the Takeda Collaboration Agreement.

During the nine months ended September 30, 2022, operating activities used \$94.3 million of cash, primarily due to our net loss of **\$118.1 million** **\$27.4 million**, partially offset by non-cash charges of **\$21.9 million** which mainly consisted of share-based compensation expense the **\$9.9 million** decrease in accrued expenses and depreciation expense other current liabilities and the **\$4.7 million** decrease in accounts payable.

#### Investing Activities

During the **nine** three months ended **September 30, 2023** **March 31, 2024**, investing activities used **\$0.8 million** **\$0.4 million** of cash, related to purchases of property and equipment.

During the **nine** three months ended **September 30, 2022** **March 31, 2023**, investing activities used **\$26.1 million** **\$0.5 million** of cash, of which **\$75.0 million** related to purchases of short-term investments, **\$50.0 million** of which subsequently matured, and **\$1.1 million** related to purchases and sales of property and equipment.

#### Financing Activities

During the **nine** three months ended **September 30, 2023** **March 31, 2024**, net cash provided by financing activities was **\$38.6 million** **\$14.5 million**, primarily due to the **\$14.0 million** in net proceeds from the January 2024 exercise of the underwriters' option to purchase an additional 3,000,000 shares under the December 2023 Offering.

During the three months ended March 31, 2023, net cash provided by financing activities was **\$35.1 million**, which was primarily due to the GSK Equity Investment (as defined in Note 5 - Collaboration Agreements to our consolidated financial statements appearing elsewhere in this Quarterly Report on Form 10-Q) 5).

During the nine months ended September 30, 2022, net cash provided by financing activities was **\$67.1 million**, which was primarily due to the net proceeds from our previously disclosed June 2022 underwritten offering, which was comprised of sales of ordinary shares and Pre-Funded Warrants.

#### Funding Requirements

We expect to continue to incur significant expenses in connection with our ongoing research and development activities and our internal cGMP manufacturing activities. Furthermore, we anticipate that our expenses will continue to vary if and as we:

- continue to conduct our clinical trials evaluating our product candidates in patients;
- conduct research and preclinical development of discovery targets and advance additional programs into clinical development;
- file clinical trial applications with global regulatory agencies and conduct clinical trials for our programs;
- make strategic investments in continuing to innovate our research and development platform, PRISM, and in optimizing our manufacturing processes and formula;
- maintain our manufacturing capabilities through our internal facility and our CMOs;
- maintain our intellectual property portfolio and consider the acquisition of complementary intellectual property;
- seek and obtain regulatory approvals for our product candidates;

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- respond to the impacts of the COVID-19 local and global pandemic, health epidemics, the conflict involving Russia and Ukraine, the conflict in the Middle East, global economic uncertainty, rising inflation, rising interest rates or market disruptions on our business; and
- establish and build capabilities to market, distribute and sell our product candidates.

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We may experience delays or encounter issues with any of the above, including but not limited to failed studies, complex results, safety issues or other regulatory challenges.

Because of the numerous risks and uncertainties associated with the development of drug candidates and because the extent to which we may enter into collaborations with third parties for development of product candidates is unknown, we are unable to estimate the amounts of future capital outlays and operating expenses associated with completing the research and development for our therapeutic programs. Our future capital requirements for our therapeutic programs will depend on many factors, including:

- the progress, results and costs of conducting research and continued preclinical and clinical development for our therapeutic programs and future potential pipeline candidates;
- the number and characteristics of product candidates and programs that we pursue;
- the cost of manufacturing clinical supplies of our product candidates;
- whether and to what extent milestone events are achieved under our collaborations with Takeda and GSK or any potential future licensee or collaborator;
- the costs, timing and outcome of regulatory review of our product candidates;
- our ability to obtain marketing approval for our product candidates;
- the impacts of the COVID-19 local and global pandemic, health epidemics, the conflict involving Russia and Ukraine, the conflict in the Middle East, global economic uncertainty, rising inflation, rising interest rates or market disruptions on our business;
- the costs and timing of future commercialization activities, including manufacturing, marketing, sales and distribution, for any of our product candidates for which we receive marketing approval;
- market acceptance of our product candidates, to the extent any are approved for commercial sale, and the revenue, if any, received from commercial sales of our product candidates for which we receive marketing approval;
- the costs and timing of preparing, filing and prosecuting patent applications, maintaining and enforcing our intellectual property rights and defending any intellectual property-related claims;
- the effect of competing technological and market developments; and
- the extent to which we acquire or invest in businesses, products and technologies, including entering into licensing or collaboration arrangements for product candidates.

Identifying potential product candidates and conducting preclinical testing and clinical trials is a time-consuming, expensive and uncertain process that takes years to complete, and we may never generate the necessary data or results required to obtain marketing approval and achieve product sales. In addition, our product candidates, if approved, may not achieve commercial success. Our product revenue, if any, will be derived from sales of products that we do not expect to be commercially available for many years, if ever. Accordingly, we will need to obtain substantial additional funds to achieve our business objectives.

Adequate additional funds may not be available to us on acceptable terms when we need them, or at all. We do not currently have any committed external source of funds, except for possible future payments from Takeda or GSK under our collaborations with them. To the extent that we raise additional capital through the sale of equity or convertible debt securities, the ownership interest of our existing shareholders will be diluted, and the terms may include liquidation or other preferences that adversely affect the rights of our shareholders. Additional debt financing and preferred equity financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures or declaring dividends and may require the issuance of warrants, which could potentially dilute our shareholders' ownership interests.

If we raise additional funds through collaborations, strategic alliances or licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies, future revenue streams, research programs or product candidates or grant licenses on terms that may not be favorable to us. If we are unable to raise additional funds through equity or debt financings when needed, we may be required to delay, limit, reduce or terminate our product development programs or any future commercialization efforts or grant rights to develop and market product candidates that we would otherwise prefer to develop and market ourselves.

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### Item 3. Quantitative and Qualitative Disclosures About Market Risk

Market risk represents the risk of loss that may impact our financial position due to adverse changes in financial market prices and rates. Our market risk exposure is primarily the result of fluctuations in interest rates and foreign exchange rates, as well as, to a lesser extent, inflation and capital market risk.

#### Interest Rate Risk

We are exposed to interest rate risk in the ordinary course of our business. Our cash and cash equivalents are comprised of funds held in checking accounts and money market accounts.

#### **Foreign Currency Risk**

Due to our operations outside of the United States, we are exposed to market risk related to changes in foreign currency exchange rates. Historically, we have not hedged our foreign currency exposure. Changes in the relative values of currencies occur regularly and, in some instances, could materially adversely affect our business, our financial conditions, our results of operations or our cash flows. For the three and nine months ended **September 30, 2023** **March 31, 2024** and **2022, 2023**, changes in foreign currency exchange rates did not have a material impact on our historical financial position, our business, our financial condition, our results of operations or our cash flows.

#### **Inflation Risk**

We do not believe that inflation had a material effect on our business, financial condition, results of operations or cash flows in the last two years. If global inflation trends continue, we expect appreciable increases in clinical trial, labor, and other operating costs.

#### **Capital Market Risk**

We currently have no product revenues and depend on funds raised through other sources. One possible source of funding is through further equity offerings. Our ability to raise funds in this manner depends upon capital market forces affecting our share price, including impacts of global economic uncertainty on the capital markets.

### **Item 4. Controls and Procedures**

#### **Evaluation of Disclosure Controls and Procedures**

Our management, with the participation of our principal executive officer and principal financial officer, evaluated the effectiveness of our disclosure controls and procedures as of **September 30, 2023** **March 31, 2024**. The term "disclosure controls and procedures," as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act, means controls and other procedures of a company that are designed to ensure that information required to be disclosed by a company in the reports that it files or submits 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 information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is accumulated and communicated to its management, including its principal executive and principal financial officers, as appropriate to allow timely decisions regarding required disclosure. Management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives and management necessarily applies its judgment in evaluating the cost-benefit relationship of possible controls and procedures. Based on the evaluation of our disclosure controls and procedures as of **September 30, 2023** **March 31, 2024**, our principal executive officer and principal financial officer concluded that, as of such date, our disclosure controls and procedures were effective at the reasonable assurance level.

#### **Changes in Internal Control over Financial Reporting**

There were no changes in our internal control over financial reporting identified in connection with the evaluation of such internal control required by Rule 13a-15(d) and 15d-15(d) of the Exchange Act that occurred during the three months ended **September 30, 2023** **March 31, 2024** that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

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### **PART II – OTHER INFORMATION**

#### **Item 1. Legal Proceedings**

We are not currently a party to any material legal proceedings.

#### **Item 1A. Risk Factors**

In addition to the other information set forth in this Quarterly Report on Form 10-Q, you should carefully consider the factors discussed under the caption "Risk Factors" that appear in Item 1A of our **2022** **2023** Annual Report on Form 10-K.

#### **Item 2. Unregistered Sales of Equity Securities and Use of Proceeds and Issuer Purchases of Equity Securities**

#### **Recent Unregistered Sales of Equity Securities**

None.

#### **Issuer Purchases of Equity Securities**

We did not repurchase any of our equity securities during the three months ended **September 30, 2023** **March 31, 2024**.

#### **Item 3. Defaults Upon Senior Securities**

None.

#### **Item 4. Mine Safety Disclosures**

Not applicable.

#### **Item 5. Other Information**

None.

#### **34 Rule 10b5-1 Trading Plans**

During the three months ended March 31, 2024, certain of our officers (as defined in Rule 16a-1(f) of the Exchange Act) entered into contracts, instructions or written plans (each, a "Rule 10b5-1 Trading Plan" and collectively, the "Rule 10b5-1 Trading Plans") for the purchase or sale of our securities that are intended to satisfy the conditions specified in Rule 10b5-1(c) under the Exchange Act for an affirmative defense against liability for trading in securities on the basis of material nonpublic information. We describe the material terms of these Rule 10b5-1 Trading Plans below.

On March 19, 2024, Paul B. Bolno, M.D., MBA, our President and Chief Executive Officer, adopted a Rule 10b5-1 Trading Plan providing for the sale of up to an aggregate of 435,594 of our ordinary shares pursuant to the terms of such Rule 10b5-1 Trading Plan. Dr. Bolno's Rule 10b5-1 Trading Plan is active until September 30, 2024, or earlier, if and when all transactions under the Rule 10b5-1 Trading Plan are completed.

On March 19, 2024, Chandra Vargeese, Ph.D., our Chief Technology Officer, Head of Platform Discovery Sciences, adopted a Rule 10b5-1 Trading Plan providing for the sale of up to an aggregate of 91,754 of our ordinary shares pursuant to the terms of such Rule 10b5-1 Trading Plan. Dr. Vargeese's Rule 10b5-1 Trading Plan is active until February 28, 2025, or earlier, if and when all transactions under the Rule 10b5-1 Trading Plan are completed.

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#### **Item 6. Exhibits**

Exhibit Number	Exhibit Description	Incorporated by			SEC File/Reg. Number
		Filed with this Report	Reference herein from Form or Schedule	Filing Date	
10.1+	<a href="#">Non-Employee Director Compensation Policy, effective as of August 7, 2023</a>	X			
10.2+	<a href="#">Wave Life Sciences Ltd. 2021 Equity Incentive Plan, as amended</a>		Form 8-K (Exhibit 10.1)	08/07/2023	001-37627
10.3+	<a href="#">Wave Life Sciences Ltd. 2019 Employee Share Purchase Plan, as amended</a>		Form 8-K (Exhibit 10.2)	08/07/2023	001-37627
31.1	<a href="#">Rule 13a-14(a)/15d-14(a) Certification of Principal Executive Officer</a>	X			
31.2	<a href="#">Rule 13a-14(a)/15d-14(a) Certification of Principal Financial Officer</a>	X			
32*	<a href="#">Section 1350 Certifications of Principal Executive Officer and Principal Financial Officer</a>	X			

101.INS	Inline XBRL Instance Document – The instance document does not appear in the <b>interactive data file</b> <b>Interactive Data File</b> because its <b>Inline</b> XBRL tags are embedded within the Inline XBRL document	X
101.SCH	Inline XBRL Taxonomy Extension Schema Document	X
101.CAL	Inline XBRL Taxonomy Extension Calculation With Embedded Linkbase Document	X
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document	X
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document	X
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document Documents	X
104	Cover Page Interactive Data File (formatted in Inline XBRL and contained in Exhibit 101)	X

(\*) The certifications attached as Exhibit 32 that accompany this Quarterly Report on Form 10-Q are not deemed filed with the Securities and Exchange Commission and are not to be incorporated by reference into any filing of Wave Life Sciences Ltd. under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended (whether made before or after the date of such Form 10-Q), irrespective of any general incorporation language contained in such filing.

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#### SIGNATURES

Pursuant 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.

WAVE LIFE SCIENCES LTD.

Date: November 9, 2023 May 10, 2024

By: /s/ Paul B. Bolno, M.D., MBA

Paul B. Bolno, M.D., MBA

President and Chief Executive Officer

(Principal Executive Officer)

Date: November 9, 2023 May 10, 2024

By: /s/ Kyle Moran

Kyle Moran

Chief Financial Officer (Principal Financial Officer and Principal Accounting Officer)

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Exhibit 10.1

**Effective: Upon the date of receipt of final voting results (August 7, 2023) evidencing requisite shareholder approval of non-employee director compensation proposal at 2023 Annual General Meeting through 2024 Annual General Meeting**

## WAVE LIFE SCIENCES LTD.

### 2023 NON-EMPLOYEE DIRECTOR COMPENSATION POLICY

#### **A. Introduction**

The Board of Directors (the "Board") of Wave Life Sciences Ltd. (the "Company") has approved the following 2023 Non-Employee Director Compensation Policy (this "Policy"), which establishes compensation to be paid to non-employee directors of the Company to provide an inducement to obtain and retain the services of qualified persons to serve as members of the Board. Except as otherwise indicated herein, this Policy shall be effective as of the date of receipt of the final voting results evidencing requisite shareholder approval of the non-employee director compensation proposal at the 2023 annual general meeting (the "Effective Date") through the date of the Company's 2024 annual general meeting, at which time the shareholders of the Company will be asked to approve the key parameters of a new or extended non-employee director compensation policy for the following year. Subject to receipt of shareholder approval, such new or extended policy shall take effect and that cycle will continue from annual general meeting to annual general meeting.

#### **B. Applicable Persons**

This Policy shall apply to each director of the Company who is not an employee of the Company or any Affiliate (each, an "Outside Director"). "Affiliate" shall mean a corporation which is a direct or indirect parent or subsidiary of the Company, as determined pursuant to Section 424 of the Internal Revenue Code of 1986, as amended.

#### **C. Equity Compensation - Share Option Grants**

All share amounts set forth herein shall be subject to automatic adjustment in the event of any share split or other recapitalization affecting the Company's ordinary shares (the "Ordinary Shares") following the Effective Date.

##### **(1) Initial Share Option Grants for Newly Appointed or Elected Directors**

Each new Outside Director appointed or elected on or after the Effective Date shall be granted a non-qualified share option to purchase 90,000 Ordinary Shares under the Company's then-effective equity incentive plan (the "Equity Incentive Plan"), on the date of their initial appointment or election to the Board (an "Initial Share Option Grant"). Initial Share Option Grants shall (i) vest as to 12.5% of the shares on a quarterly basis during the two-year period following the grant date, subject to the Outside Director's continued service on the Board; provided that such options shall become exercisable in full immediately prior to and contingent upon the closing of a Change of Control of the Company (as defined in the applicable award agreement); (ii) have an exercise price equal to the fair market value of the Ordinary Shares on the grant date; (iii) expire and no longer be exercisable after the five-year anniversary of the grant date; and (iv) contain such other terms and conditions as the Board or the Compensation Committee shall determine.

##### **(2) Refresh Share Option Grants for Long-Term Service**

Section 77 of the Companies Act (Cap. 50 of Singapore) ("Companies Act") imposes a five-year maximum term for share options granted to non-employee directors of public companies (as defined in the Companies Act). Due to this limitation, on the Effective Date, subject to receiving shareholder approval at the 2023 annual general meeting, each Outside Director who holds an initial share option that was granted in connection with their initial

appointment or election to the Board and which has an expiration date within twelve months following the 2023 annual general meeting shall be granted a non-qualified share option to purchase 90,000 Ordinary Shares under the Equity Incentive Plan (a "Refresh Share Option Grant"). Refresh Share Option Grants shall (i) vest as to 12.5% of the shares on a quarterly basis during the two-year period following the grant date, subject to the Outside Director's continued service on the Board; provided that such options shall become exercisable in full immediately prior to and contingent upon the closing of a Change of Control of the Company (as defined in the applicable award agreement); (ii) have an exercise price equal to the fair market value of the Ordinary Shares on the grant date; (iii) expire and no longer be exercisable after the five-year anniversary of the grant date; and (iv) contain such other terms and conditions as the Board or the Compensation Committee shall determine.

##### **(3) Annual Share Option Grants**

On the Effective Date, subject to receiving shareholder approval at the 2023 annual general meeting, each Outside Director (other than an Outside Director receiving an Initial Share Option Grant or a Refresh Share Option Grant) shall be granted a non-qualified share option to purchase 45,000 Ordinary Shares under the Equity Incentive Plan (an "Annual Share Option Grant"). Annual Share Option Grants shall (i) vest as to 100% of the shares on the earlier of the 2024 annual general meeting or the first anniversary of the grant date, subject to the Outside Director's continued service on the Board during that period; provided that such options shall become exercisable in full immediately prior to and contingent upon the closing of a Change of Control of the Company (as defined in the applicable award agreement); (ii) have an exercise price equal to the fair market value of the Ordinary Shares on the grant date; (iii) expire and no longer be exercisable after the five-year anniversary of the grant date; and (iv) contain such other terms and conditions as the Board or the Compensation Committee shall determine.

For the avoidance of doubt, an Outside Director shall be eligible to receive only one type of option grant on the Effective Date, which shall be an Initial Share Option Grant, a Refresh Share Option Grant or an Annual Share Option Grant.

#### **D. Cash Compensation**

##### **(1) Annual Cash Fees**

The following annual cash fees shall be paid to the Outside Directors serving on the Board and the Audit Committee, Compensation Committee, Nominating and Corporate Governance Committee, and Research and Development Committee, as applicable.

	Annual Amount for
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Board or Committee of Board	Annual Amount for Chair	Member
Board	\$75,000	\$40,000
Audit Committee	\$18,000	\$9,000
Compensation Committee	\$15,000	\$7,500
Nominating and Corporate Governance Committee	\$15,000	\$7,500
Research and Development Committee	\$15,000	\$7,500

#### (2) Payment Terms for All Cash Fees

Except as otherwise indicated herein, cash fees payable to Outside Directors shall be paid quarterly in arrears as of the last day of each fiscal quarter commencing on the later of the Effective Date or an Outside Director's first election or appointment to the Board, prorated from the Effective Date or such Outside Director's election or appointment date, as applicable. If an Outside Director dies, resigns or is removed during any quarter, he or she shall be entitled to a cash fee on a prorated basis through their last day of Board service.

#### E. Expenses

Upon presentation of documented expenses, reasonably satisfactory to the Company, each Outside Director shall be reimbursed for their reasonable, documented out-of-pocket business expenses incurred in connection with attending meetings of the Board and Committees thereof, or general meetings of shareholders, or in connection with other business related to their Board service.

#### F. Amendments

The Compensation Committee or the Board, as appropriate, shall review this Policy from time to time to assess whether any changes in the type or amount of compensation provided herein should be adjusted in order to fulfill the objectives of this Policy, provided, however, that changes to this Policy which require shareholder approval under applicable law shall require such shareholder approval to be obtained before taking effect.

Exhibit 31.1

#### CERTIFICATIONS UNDER SECTION 302

I, Paul B. Bolno, M.D., MBA, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Wave Life Sciences Ltd.;
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 registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-1 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 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 registrant'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 registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant'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 registrant'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 registrant's internal control over financial reporting.

Dated: November 9, 2023 May 10, 2024

By: /s/ Paul B. Bolno, M.D., MBA

Paul B. Bolno, M.D., MBA

President and Chief Executive Officer  
(Principal Executive Officer)

**Exhibit 31.2**

**CERTIFICATIONS UNDER SECTION 302**

I, Kyle Moran, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Wave Life Sciences Ltd.;
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 registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-1 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 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 registrant'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 registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant'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 registrant'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 registrant's internal control over financial reporting

Dated: **November 9, 2023** **May 10, 2024**

By: /s/ Kyle Moran  
Kyle Moran  
Chief Financial Officer  
(Principal Financial Officer)

div>

**Exhibit 32**

CERTIFICATIONS UNDER SECTION 906

Pursuant to section 906 of the Sarbanes-Oxley Act of 2002 (subsections (a) and (b) of section 1350, chapter 63 of title 18, United States Code), each of the undersigned officers of Wave Life Sciences Ltd. (the "Company"), does hereby certify, to such officer's knowledge, that:

The Quarterly Report for the quarter ended **September 30, 2023** **March 31, 2024** (the "Form 10-Q") of the Company fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, and the information contained in the Form 10-Q fairly presents, in all material respects, the financial condition and results of operations of the Company.

Dated: **November 9, 2023** **May 10, 2024**

/s/ Paul B. Bolno, M.D., MBA

Paul B. Bolno, M.D., MBA

President and Chief Executive Officer

(Principal Executive Officer)

/s/ Kyle Moran

Kyle Moran

Chief Financial Officer

(Principal Financial Officer)

Dated: **November 9, 2023** **May 10, 2024**

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