



YE:2025 Business Update and Financial Results

February 25, 2026

Nasdaq: IONS



Yajaira (with family)
Living with sHTG

On Today's Earnings Call



Brett Monia, Ph.D.
Chief Executive Officer



Holly Kordasiewicz, Ph.D.
Chief Development Officer



Kyle Jenne
Chief Global Product
Strategy Officer



Beth Hougen
Chief Financial Officer



Eugene Schneider, M.D.
Chief Clinical
Development Officer



Eric Swayze, Ph.D.
Executive Vice President,
Research

Forward-Looking Statements

This presentation includes forward-looking statements regarding our business, financial guidance and the therapeutic and commercial potential of our commercial medicines, additional medicines in development and technologies and our expectations regarding development and regulatory milestones. Any statement describing Ionis' goals, expectations, financial or other projections or guidance, intentions or beliefs is a forward-looking statement and should be considered an at-risk statement. Such statements are subject to certain risks and uncertainties including but not limited to those related to our commercial products and the medicines in our pipeline, and particularly those inherent in the process of discovering, developing and commercializing medicines that are safe and effective for use as human therapeutics, and in the endeavor of building a business around such medicines. Ionis' forward-looking statements also involve assumptions that, if they never materialize or prove correct, could cause its results to differ materially from those expressed or implied by such forward-looking statements. Although Ionis' forward-looking statements reflect the good faith judgment of its management, these statements are based only on facts and factors currently known by Ionis. Except as required by law, we undertake no obligation to update any forward-looking statements for any reason. As a result, you are cautioned not to rely on these forward-looking statements. These and other risks concerning Ionis' programs are described in additional detail in Ionis' annual report on our Form 10-K for the year ended December 31, 2024, and our most recent Form 10-Q quarterly filing, which are on file with the SEC. Copies of these and other documents are available at www.ionis.com.

In this presentation, unless the context requires otherwise, "Ionis," "Company," "we," "our," and "us" refers to Ionis Pharmaceuticals and its subsidiaries.

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Introduction

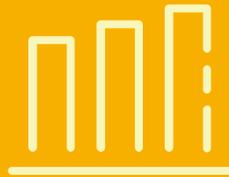
Brett Monia, Ph.D.
Chief Executive Officer

Strong Track Record of Industry-Leading Success¹⁻⁴

Key Recent Achievements

6

Positive Phase 3
Data Readouts



4

Approved
Medicines

 Tryngolza[®]
(olezarsen) 80 mg
injection

 DAWNZERA[™]
(donidalorsen) 80 mg/0.8 mL
injection

 WAINUA[®]
(eplintersen) 45 mg
injection for subcutaneous use

 QALSODY[®]
(tofersen) 100 mg/15 mL
injection

2

Independent
Launches

 Tryngolza[®]
(olezarsen) 80 mg
injection

 DAWNZERA[™]
(donidalorsen) 80 mg/0.8 mL
injection

11

Medicines in
Late-Stage Development



1. TRYNGOLZA is approved in the U.S. for Familial Chylomicronemia Syndrome (FCS) in adults as an adjunct to diet; see [Full Prescribing Information](#); Approved in the EU as an adjunct to diet in adult patients for the treatment of genetically confirmed FCS. 2. DAWNZERA is approved in the U.S. for hereditary angioedema in adults and pediatric patients 12 years of age and older; see [Full Prescribing Information](#). 3. QALSODY.com. 4. WAINUA.com.

Strong Momentum Across the Business

Providing multi-billion-dollar revenue potential for Ionis¹

First Independent Launch Exceeding Expectations



First FDA-approved treatment for FCS

YE:25 net sales of \$108M

EU Launch underway²

Second Independent Launch Underway



Positioned to transform the HAE Treatment Paradigm

Early excitement seen with DAWNZERA from physicians and patients

Recently approved in the EU³

Preparations on Track for First Broad Patient Population Launch

Olezarsen in sHTG

Groundbreaking Phase 3 results position olezarsen to be the new standard of care for sHTG

sNDA submitted

On track to be launch ready by June 2026⁴

Preparations on Track for First Independent Neurology Launch

Zilganersen in AxD

First ever investigational medicine to show a disease-modifying effect in Alexander disease

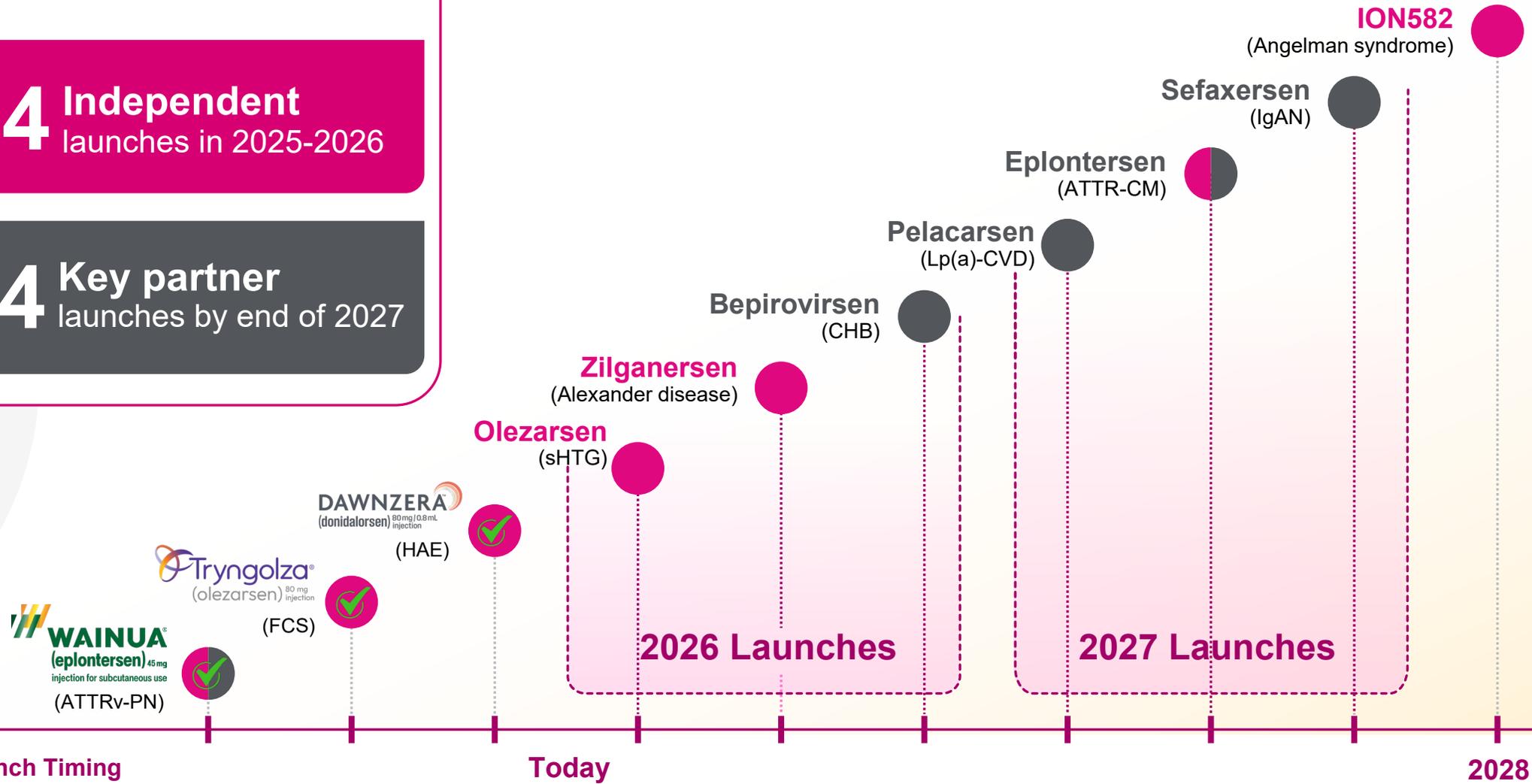
NDA submitted

Launch on track for H2:2026

1. Timing expectations and peak sales estimates based on current assumptions and subject to change. 2. Sobi is responsible for commercializing TRYNGOLZA in the EU. 3. Otsuka is responsible for commercializing DAWNZERA in the EU. 4. Approval anticipated in June 2026 under Priority Review or October under Standard Review.

Delivering a Steady Cadence of New Medicines^{1,2}

- 4 Independent launches in 2025-2026
- 4 Key partner launches by end of 2027



1. Assuming approval. 2. Based on current timing assumptions, subject to change.



Delivering Important Pipeline Achievements

Holly Kordasiewicz, Ph.D.
Chief Development Officer

Olezarsen:

Positioned to be the
New Standard of Care
for Severe
Hypertriglyceridemia¹

Groundbreaking clinical results²:

- › **Highly statistically significant and clinically meaningful mean reductions in fasting triglycerides of up to 72% on top of standard of care**
 - › 86% of olezarsen-treated patients achieved triglyceride levels below 500 mg/dL
 - › Up to 54% of olezarsen-treated patients achieved normal triglyceride levels
- › **First and only** investigational treatment to **significantly reduce acute pancreatitis** events in people with sHTG
 - › 85% reduction in acute pancreatitis events compared to placebo
- › **Favorable safety and tolerability**

sNDA submitted; On track to be launch ready by June 2026^{1,3}

1. Timing expectations based on current assumptions and subject to change. 2. Marston NA, Bergmark BA, Alexander VJ, et al. Olezarsen for managing severe hypertriglyceridemia and pancreatitis risk. *N Engl J Med*. 2026;394(5):429-441. doi:10.1056/NEJMoa2512761. 3. Approval anticipated in June 2026 under Priority Review or October under Standard Review.

Late-Stage Ionis-Owned Neurology Opportunities: Zilganersen and Obudanersen¹

Zilganersen for the Treatment of Alexander Disease

First and only investigational **medicine** to demonstrate **clinically meaningful disease-modifying impact**

Prevalence: ~1 in 1-3 million; accounts for ~2-8% of leukodystrophies, although likely underreported²

U.S. and EU Orphan designation; U.S. Fast Track designation

NDA submitted; Launch H2:2026; EAP underway³

Obudanersen for the Treatment of Angelman Syndrome

Significant unmet need with no approved disease-modifying treatments

HALOS long-term extension data continues to support development

>100k people in major geographies⁴

Granted Breakthrough Therapy designation

Full enrollment of pivotal Phase 3 REVEAL study expected in **2026**; **data** expected in **2027³**

Leading the Way in the Treatment of Neurological Diseases

6

Wholly Owned Medicines in Clinical Development



6

Partnered Medicines in Clinical Development

12

Medicines in Clinical Development

Approved Medicines¹⁻³



Wholly Owned Medicines

	Indication	Preclinical	Ph1	Ph2	Ph3
Zilganersen (GFAP)	Alexander disease	NDA submitted			
ION582 (UBE3A-ATS)	Angelman syndrome				
ION464 (SNCA)	Multiple System Atrophy				
ION717 (PRNP)	Prion disease				
ION356 (PLP1)	Pelizaeus-Merzbacher disease				
ION440 (MECP2)	MECP2 Duplication syndrome				
ION337 (SCN1A)	Dravet syndrome				

Partnered Medicines

Ulefnersen (FUS)	Amyotrophic Lateral Sclerosis (ALS)				
Tofersen (SOD1)	ALS (Presymptomatic SOD1)				
Salanersen (SMN2)	Spinal Muscular Atrophy				
IONIS-MAPT _{Rx} (TAU)	Alzheimer's disease				
Tominersen (HTT)	Huntington's disease				
RG6496 (HTT SNP)	Huntington's disease				

1. SPINRAZA.com 2. QALSODY.com. 3. WAINUA.com.

2026 Key Value-Driving Events¹

Clinical Events

Phase 3

✓ **Bepirovirsen**
B-Well data
(CHB)

Pelacarsen
Lp(a) HORIZON data
(Lp(a)-CVD)

Eplontersen
CARDIO-TTRansform data
(ATTR-CM)

Ulefnersen
FUSION data
(FUS-ALS)

Sefaxersen
IMAGINATION data
(IgAN)

Sapablursen
Phase 3 initiation
(PV)

ION582
Enrollment completion
(Angelman syndrome)

Salanersen
Phase 3 initiation
(SMA)

Phase 2

IONIS-MAPT_{Rx}
CELIA data
(Alzheimer's disease)

Tominersen
GENERATION HD2 data
(Huntington's disease)

Tonlamarsen
Phase 2 data
(Uncontrolled hypertension)

Regulatory Actions

✓ **Donidalorsen**
EU approval
(HAE)

Olezarsen
U.S. approval
EU submission
(sHTG)

Zilganersen
U.S. submission
U.S. approval
(AxD)

High Dose Nusinersen²
U.S. approval
✓ EU approval
(SMA)

Bepirovirsen
Submission &
approval
(CHB)

Pelacarsen
U.S. submission
(Lp(a)-CVD)

Eplontersen
U.S. submission
(ATTR-CM)

Product Launches

✓ **DAWNZERA**
EU
(HAE)

Olezarsen
U.S.
(sHTG)

Zilganersen
U.S.
(Alexander disease)

Bepirovirsen
U.S. & Japan
(CHB)

1. Timing expectations are based on current assumptions and are subject to change, timing of partnered program catalysts based on partners' most recent publicly available disclosures. Green checkmark indicates event was achieved. 2. Refiled with the FDA.



Building on our Commercial Success

Kyle Jenne

Chief Global Product Strategy Officer

TRYNGOLZA Outperforms Expectations in First Year of Launch as the First FDA-Approved Treatment for FCS¹



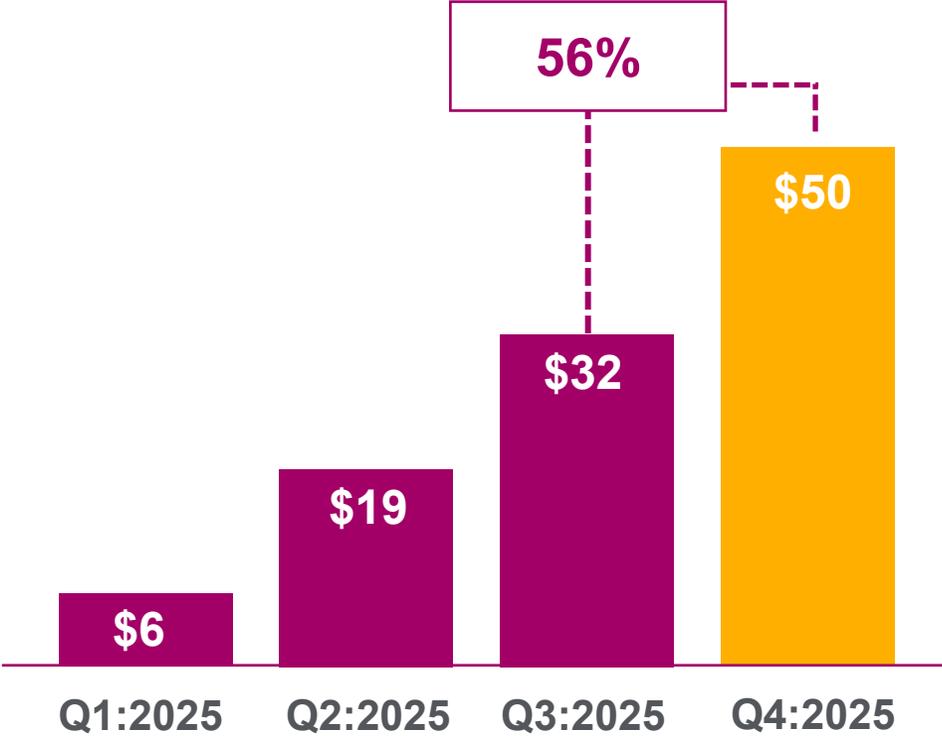
Robust efficacy and safety

- Significant and sustained triglyceride reductions
- Substantial reduction in acute pancreatitis events

Convenience of once-monthly self-administration with an autoinjector

EU launch now underway²

Generated \$108 million in 2025



TRYNGOLZA, U.S. Product Sales, net (millions)

1. TRYNGOLZA is approved in the U.S. for Familial Chylomicronemia Syndrome in adults as an adjunct to diet; see [Full Prescribing Information](#). 2. Approved in the EU as an adjunct to diet in adult patients for the treatment of genetically confirmed familial chylomicronemia syndrome (FCS).

Strong Commercial Execution and Compelling Product Profile Driving Increasing TRYNGOLZA Demand^{1,2}



Strong Uptake

Effective patient identification efforts; strong referral and patient growth

No meaningful impact on cancellations or discontinuation rates following new market entrant

Breadth and depth of unique physicians prescribing TRYNGOLZA growing



Robust Physician Engagement

Targeting ~20,000 physicians with expanded field team

Leveraging omnichannel capabilities to reach >30k HCPs

TRYNGOLZA awareness gaining traction

High satisfaction with prescribing experience and overall TRYNGOLZA profile



Broad Patient Access

Broad FCS access and coverage

Effectively managing evolving pricing dynamics to preserve access and coverage

Coverage split: ~60% commercial, ~40% government

>90% of patients had \$0 out-of-pocket costs in commercial setting

sHTG Launch Preparations Confirm Strong Enthusiasm for Olezarsen



Groundbreaking Pivotal sHTG Results¹

Highly statistically significant and clinically meaningful reductions in fasting triglycerides

First and only investigational treatment to significantly reduce acute pancreatitis events in people with sHTG



Robust HCP Demand

Strong enthusiasm for olezarsen and its potential to address the unmet needs of people with sHTG



Ongoing Payer Engagement

Educating on clinical and economic burden of disease and associated budget impact

Maximizing value with broad access

1. Marston NA, Bergmark BA, Alexander VJ, et al. Olezarsen for managing severe hypertriglyceridemia and pancreatitis risk. *N Engl J Med*. 2026;394(5):429-441. doi:10.1056/NEJMoa2512761.

Olezarsen: Poised to Become Ionis' First Blockbuster Medicine



>3 million people with sHTG in the U.S.¹

- Includes >1 million people with high-risk sHTG¹
- Early launch focus on high-risk sHTG with >880 mg/dL or ≥500 mg/dL + AP history and/or comorbidities



- **Highly statistically significant** and **clinically meaningful** reductions in fasting **triglycerides**²
- **First and only** investigational treatment to **significantly reduce acute pancreatitis** events in **people with sHTG**²



Simplicity of **monthly self-administration** with a patient-friendly **autoinjector**



- **First mover advantage**
- **Full field team onboard** and **deployed**
- **sNDA submitted; On track to be launch ready by June 2026**³

Annual Peak Product Revenue Opportunity³

Increased to

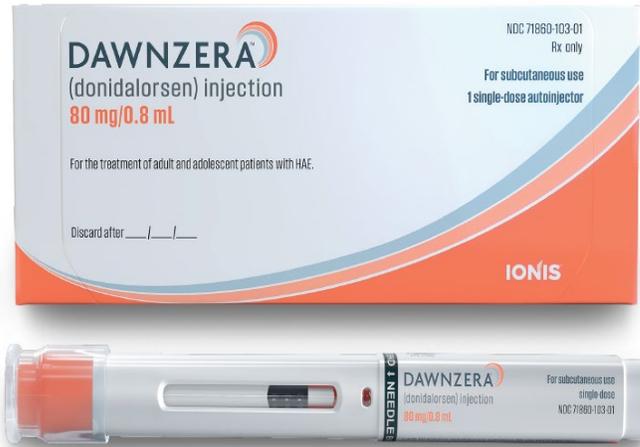
>\$2B

—
(Previous: >\$1 billion)

DAWNZERA Launch off to Encouraging Start¹

Delivering on What HAE Patients Need Most

First and Only RNA-Targeted Treatment to Prevent HAE Attacks



Indicated for prophylaxis to prevent attacks of HAE in adult and pediatric patients ≥12 years old

The Opportunity

- ~7,000 people with HAE in the U.S.²
- Substantial patient dissatisfaction

Compelling Product Profile

- Substantial and durable efficacy, with favorable safety and tolerability
- Switch study demonstrated strong patient preference for DAWNZERA
- Longest dosing interval option³
- Self-administration with an autoinjector

Encouraging Early Launch Momentum

Prescriptions written for all patient segments:

- Switches from other long-term prophylactic treatments
- Previously on-demand treatment only
- Treatment naïve

Growing number of repeat prescribers

Approved in U.S. and EU⁴

1. DAWNZERA is approved in the U.S. for hereditary angioedema in adults and pediatric patients 12 years of age and older; see [Full Prescribing Information](#). 2. Christiansen SC, Wilmot J, Castaldo AJ, Zuraw BL. The US Hereditary Angioedema Association Scientific Registry: hereditary angioedema demographics, disease severity, and comorbidities. *Ann Allergy Asthma Immunol.* 2023 Dec;131(6):766-774.e. 3. Market data on file. 4. Otsuka is responsible for commercializing DAWNZERA in the EU.

Zilganersen: Our First Anticipated Neurology Launch on Track for H2:2026^{1,2}

Substantial Unmet Need

Alexander disease is a **rare, progressive** and **often fatal** neurological condition

No approved disease-modifying treatments

Groundbreaking Phase 3 Data

First time an investigational **medicine** has shown a **positive disease-modifying impact in Alexander disease**

Demonstrated **statistically significant** and **clinically meaningful stabilization** on the **primary endpoint**

Well-Established Patient Community

Strong partnership with the Alexander disease **patient community**

Strategy to Reach Patients

Evaluation and **diagnosis**

Treatment management

Access and **adherence**

Innovative Commercial Organization with Proven Ability to Bring Medicines to People with Serious Diseases



**Top-Tier
Team**



**Demonstrated
Strong Initial
Launch Execution**



**Scaling Capabilities
for Upcoming
Launches**



YE:2025 Financial Performance and 2026 Financial Guidance

Beth Hougen

Chief Financial Officer

YE:2025 Financial Highlights¹

Exceeded 2025 Guidance

Revenues
\$944M

Commercial Revenue: \$436M

- \$108M in TRYNGOLZA product sales
- Total commercial revenues increased ~49% YoY

R&D Revenue: \$508M

- Reflects the value Ionis' technology creates as partnered programs advance

Operating Expenses²
\$1,192M

R&D Expenses²: \$826M

- Large majority funding late-stage programs

SG&A Expenses²: \$352M

- YoY increase fueling ongoing and planned launches

Operating Loss²
(\$248M)

- Reflects strong revenue generation from multiple sources and disciplined expense management

Cash & Short-term Investments
\$2.7B

- Enables investments in launches and Ionis-owned pipeline
- Includes \$433M earmarked to repay the 2026 convertible notes

2026 Revenue Guidance Reflects Growing Commercial Revenue and Substantial Partner Revenue¹

Revenue: \$800-\$825 million²
+ ~20% vs 2025³

Assumes olezarsen standard review

TRYNGOLZA

Strong FCS patient demand expected to continue

Engaging with payers to ensure broad access

Meaningful revenue decline expected ahead of anticipated sHTG approval²

Accelerating growth following sHTG launch²

DAWNZERA

Strong launch fundamentals in place: increasing demand, high referral-to-start conversion rate

Meaningful contribution to total commercial revenue growth

Royalties

SPINRAZA to remain resilient; H1 to reflect annual tiered royalty reset

WAINUA expected to continue upward trajectory

R&D Revenue

Multiple opportunities to generate R&D revenue

\$65M in milestone payments already achieved

2026 Financial Guidance Reflects Fully Integrated Commercial-Stage Biotech Launching Multiple Medicines¹⁻³

Revenue
\$800-\$825 million
+ ~20% vs 2025⁴

Numerous diverse revenue sources

TRYNGOLZA and DAWNZERA product level guidance to be provided at Q1:26 Earnings⁴

Operating Loss
\$500-550 million³
Similar level to 2025⁴

Investing in multiple launches, including broad sHTG indication

Investing in advancing pipeline

Improved operating leverage

Cash
~\$1.6 billion

Investments for launches, pipeline and technology

Reflects use of \$433M to repay 2026 Convertible Notes

On track to achieve cash flow breakeven in 2028

1. Based on current assumptions, subject to change. 2. Assumes standard review and approval in late October 2026. 3. Excluding the \$280 million license fee for sapablursen in 2025. 4. Non-GAAP – please see reconciliation to GAAP in YE:2025 press release.



Conclusion

Brett Monia, Ph.D.
Chief Executive Officer

Well Positioned to Continue Driving Accelerating Growth

Key Catalysts in 2026¹

5
Phase 3
Data
Readouts

✓ Bepirovirsen
Pelacarsen
Eplontersen
Sefaxersen
Ulefnersen

4
NDA
Submissions

Zilganersen
Bepirovirsen
Pelacarsen
Eplontersen

3
Launches

Olezarsen
Zilganersen
Bepirovirsen

Multiple
Phase 2 Data Readouts

Alzheimer's Disease (TAU) | Huntington's Disease (HTT)
Uncontrolled Hypertension (AGT)

1. Based on current assumptions, subject to change.



Q&A

Breakthrough Therapies Driving Accelerating Growth

