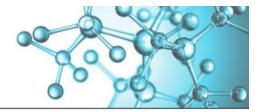


NeuroBo Pharmaceuticals, Inc.



NASDAQ: NRBO





Forward-Looking Statements

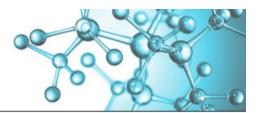
This presentation may contain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements include all statements that do not relate solely to historical or current facts and can be identified by the use of words such as "believes", "expects", "anticipates", "may", "will", "should", "seeks", "approximately", "intends", "projects", "plans", "estimates" or the negative of these words or other comparable terminology (as well as other words or expressions referencing future events, conditions or circumstances). Forward-looking statements are predictions, projections and ossumptions and, as a result, are subject to risks and uncertainties. These forward-looking statements include statements regarding the market size and potential growth opportunities of our current and future product candidates, capital requirements and use of proceeds, clinical development activities, the timeline for, and results of, clinical trials, regulatory submissions, and potential regulatory approval and commercialization of our current and future product candidates. Many factors could cause actual future events to differ materially from the forward-looking statements in this presentation, including, without limitation, those risks associated with our ability to execute on our commercial strategy; the timeline for regulatory submissions; ability to obtain regulatory approval through the development steps of our current and future product candidates, the ability to realize the benefits of the license agreement with Dong-A ST Co. Ltd., including the impact on future financial and operating results of NeuroBo; the cooperation of our contract manufacturers, clinical study partners and others involved in the development of our current and future product candidates; potential negative interactions between our product candidates and any other products with which they are combined for treatment; our ability to initiate and complete clinical trials on a timely basis; our ability to

While we may elect to update such forward-looking statements at some point in the future, except as required by law, we disclaim any obligation to do so, even if subsequent events cause our views to change. Although we believe the expectations reflected in such forward-looking statements are reasonable, we can give no assurance that such expectations will prove to be correct. These forward-looking statements should not be relied upon as representing our views as of any date subsequent to this presentation.

This presentation also may contain estimates and other statistical data made by independent parties and by us relating to market size and other data about our industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. In addition, projections, assumptions and estimates of our future performance and the future performance of the markets in which we operate are necessarily subject to a high degree of uncertainty and risk.



Strong Leadership Team



Executive Management



Hyung Heon Kim, Chief Executive Officer

- . 20+ years of experience in M&A, financing and corporate governance
- 10+ years of licensing, M&A and compliance with Dong-A Group
- Former General Counsel/SVP at Dong-A ST and Dong-A Socio Group
- BA Soonghsil University, JD Washington University School of Law

M

Marshall H. Woodworth, Chief Financial Officer

- · 35+ years of financial experience
- · 20+ years working with life science investors and analysts
- CFO of Nevakar Inc., Braeburn Pharmaceuticals Inc., Aerocrine AB and Furiex Pharmaceuticals Inc.
- BS University of Maryland, MBA Indiana University

Non-Executive Management



Mi-Kyung Kim, Ph.D., RPh, Chief Scientific Officer

- . 25+ years in drug discovery research at Dong-A ST
- · Specialized in diabetes, obesity, MASH, immune-mediated diseases
- · Ph.D., RPh, College of Pharmacy, Ewha Womans University



Chris Fang, MD, Advisor/Consulting Chief Medical Officer

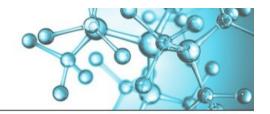
- 20+ years of experience in clinical development, R&D and medical affairs
- Career focused on obesity, MASH, diabetes and other indications
- Held key roles at Eli Lilly, IQVIA, Acer Health and Johnson & Johnson
- BA UCLA, Master of Health Science John Hopkins, MD Cornell, MBA Wharton



Robert Homolka, SVP Clinical Operations

- . 35+ years in pharmaceutical and biotech development
- Sr. director of clinical operations in Adiso Therapeutics
- Director of clinical operations at Shire/Takeda pharmaceuticals
- Director of experimental trial management at AstraZeneca





Compelling Investment Opportunity

Targeting Obesity and MASH with a Pipeline of Next Generation Therapeutics

Aiming to increase Shareholder Value through Multiple, Near-Term, Value Creating Milestones

DA-1726

- ✓ Ongoing Phase 1 trial for the treatment of obesity
- ✓ Part 1 (SAD) top line data from planned cohorts showed a strong safety profile
- o Additional cohort(s) are being added to Part 1 (SAD) to explore maximum tolerable dose
- o Part 2 (MAD) interim data readout from planned cohorts expected in Q1 2025

DA-1241

- ✓ Ongoing Phase 2a in subjects with presumed MASH
- Top-line data readout expected in Q4 2024
- Backed by Strategic Partner and Major Shareholder, Dong-A ST
- Well capitalized with approximately \$27.9 million in Cash at the end of Q2 2024. Additional \$50 million in aggregate gross proceeds may be received if all milestone-based warrants are fully exercised.

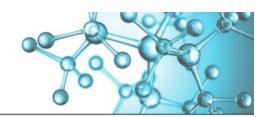




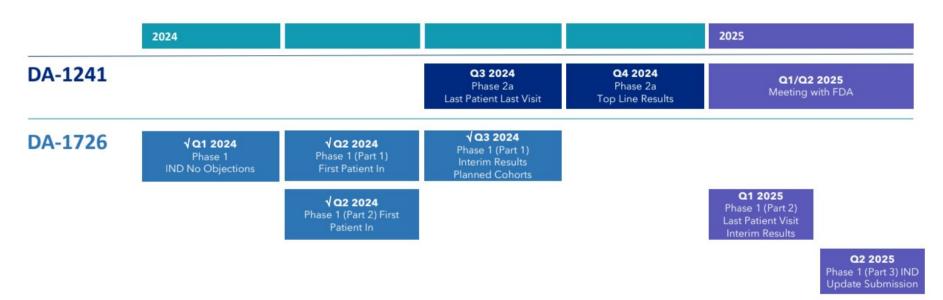




Multiple Near-Term Milestones: Targeting to Increase Shareholder Value



Investments in the **current DA-1241 Phase 2a** and **DA-1726 Phase 1** have the potential for significant returns in the event of clinical and regulatory success









DA-1726

A Novel **GLP1R/GCGR**Dual Agonist for the
Treatment of **Obesity**





DA-1726: Indication - Obesity - Competitive Differentiation

	Pemvidutide	DA-1726	Mazdutide	Survodutide	Semaglutide	Tirzepatide
Developer	Altimmune	NeuroBo	Innovent Biologics Lilly	Boehringer Ingelheim	Novo Nordisk	Lilly
Status	Phase 3 ready	Phase 1	Phase 3 (China, 9mg) Phase 2 (USA, 16mg) NDA in China for 6mg	Phase 3	Marketed (Obesity/Wegovy®) Marketed (T2D/Ozempic®)	Marketed (Obesity/Zepbound®) Marketed (T2D/Mounjaro®)
Action	GLP-1R/GCGR (Glucagon receptor) (1:1) * dual agonist	GLP-1R/GCGR (3:1) * dual agonist	GLP-1R/GCGR (Undisclosed) * dual agonist	GLP-1R/GCGR (8:1) * dual agonist	GLP-1R agonist (NA)	GLP-1R/GIPR (Unknown) dual agonist
Dosage	once weekly, injection	Exploratory dosing in Phase 1	once weekly, injection	once weekly, injection	once weekly, injection	once weekly, injection
Efficacy in Human	Body weight loss, 15.6% @ 48-week (high dose 2.4mg)	Exploratory efficacy in Phase 1	Body weight loss, 18.6% @ 48-week (placebo adjusted, 9mg)	Body weight loss, 18.7% @ 46-week	Body weight loss, 14.8% @ 68-week	Body weight loss, 20.9% @ 72-week
Safety in Human	Nausea, vomiting, diarrhea, etc. Discontinuations due to adverse events 19.6% (high dose 2.4mg)	Exploratory safety in Phase 1	Nausea, diarrhea, vomiting, abdominal distension. No discontinued treatment due to adverse events during 9mg Phase 2	Nausea, vomiting, diarrhea, constipation. Treatment discontinuations due to AEs: 24.6% (BI: due to rapid dose escalation)	Nausea, diarrhea, vomiting, constipation, abdominal pain. Treatment discontinuations due to AEs: 7% for 2.4mg	Nausea, diarrhea, decreased appetite, vomiting, constipation. Treatment discontinuations due to AEs: 6.2% for 15mg

Note: Above GLP-1R/GCGR relative ratio are based on publicly available data and internal research data.

These results may vary depending on methodologies used for calculation.



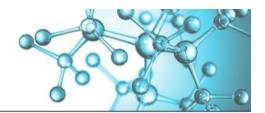


DA-1726: Potentially Best in Class Based on Key Attributes From Non-Clinical Studies

Attribute	DA-1726	Survodutide	Semaglutide	Tirzepatide
Change in Body Weight	Similar or Better Than Competition	DA-1726 ~7% More Body Weight Loss while Consuming More Calories 2024 84th ADA Poster 2058-LB	DA-1726 ~8% More Body Weight Loss while Consuming ~8% More Calories 2023 83rd ADA Poster 1676-P	DA-1726 Similar Body Weight Loss while Consuming ~20% More Calories 2023 83rd ADA Poster 1668-P
Tolerability / Compliance: Drop Out Rate and AE's	Similar or Better Than Competition To be confirmed in Phase 1 Part 3	DA-1726 ~7% More Body Weight Loss 2024 84th ADA Poster 2058-LB	DA-1726 ~8% More Body Weight Loss while Consuming ~8% More Calories 2023 83rd ADA Poster 1676-P	DA-1726 Similar Body Weight Loss while Consuming ~20% More Calories 2023 83rd ADA Poster 1668-P
Glucose Control & Insulin Sensitivity: HbA1c, Fasting Plasma Glucose, Fasting Plasma Insulin	Similar or Better Than Competition	DA-1726 effectively lowered T-CHO, TG and glucose levels 2024 84th ADA Poster 2058-LB	DA-1726 better HbA1c and Glycemic Control 2022 82nd ADA Poster 1403-P	DA-1726 Better Glucose Lowering in HF-Obese mice 2023 83rd ADA Poster 1668-P
Body Composition: Fat:Lean Mass Loss	Better Than Competition	DA-1726 demonstrated superior body fat mass reduction and relative lean body mass preservation 2024 84th ADA Poster 2058-LB	DA-1726 better expression of thermogenic genes in white adipose tissue 2022 82nd ADA Poster 1403-P 2023 83rd ADA Poster 1676-P	Not Available
MASH/NAFLD	Better Than Competition	Not Available	DA-1726 better NAFLD activity score and fibrosis resolution 2022 82nd ADA Poster 1333-P	Not Available
Weight Loss Metrics: BMI, Waist Circumference	Similar or Better Than Competition To be confirmed in Phase 1 Part 3	Not Available	Not Available	Not Available
Cardiovascular: Systolic & Diastolic Blood Pressure, Cholesterol	TBD To be confirmed in CV Outcome Trial	Not Available	Not Available	Not Available



DA-1726: Mechanism of Action



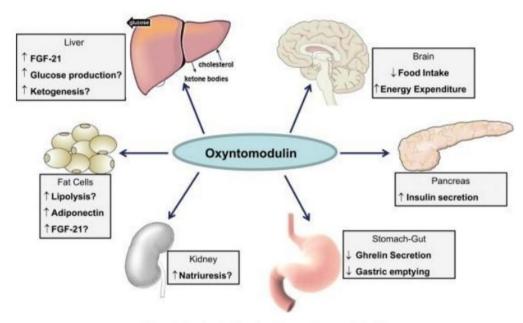
DA-1726 is a novel oxyntomodulin analogue functioning as a GLP1R/GCGR dual agonist for the

treatment of obesity

- Oxyntomodulin
 - · a gut hormone released from intestinal L-cells after meal ingestion resulting in dual agonism of the GLP-1 receptor and glucagon receptor
- Reduces food intake (GLP-1 R) and increases energy expenditure (GCGR) in humans, potentially resulting in superior body weight loss

Notes: GLP1R/GCGR (Glucagon-Like Peptide 1 Receptor/Glucagon Receptor);

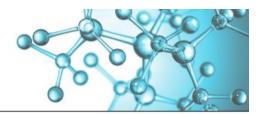
GLP-1 (Glucagon-Like Peptide 1) 1. Pocai A. Mol Metab.2014:3:241-51



Physiological effects of oxyntomodulin(1)

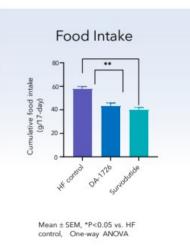


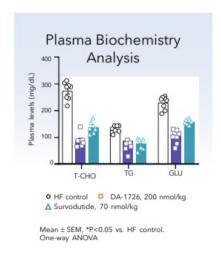
DA-1726: Comparative Study with Survodutide on Weight Loss & Lipid-Lowering

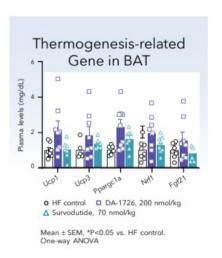


- DA-1726 demonstrated superior weight loss efficacy compared to Survodutide in HF-DIO mice despite more food consumption
- DA-1726 effectively lowered T-CHO, TG, and glucose levels while significantly increasing the expression of EE-related genes in brown adipose tissue









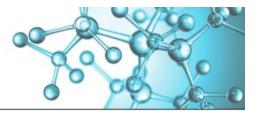
Notes: HF-DIO (High Fat-Diet Induced Obesity), EE (energy expenditure), BAT (brown adipose tissue)

1. Tae-Hyoung Kim et al. 84th Meeting of the American Diabetes Association. 2024; Abstract 2058-LB.

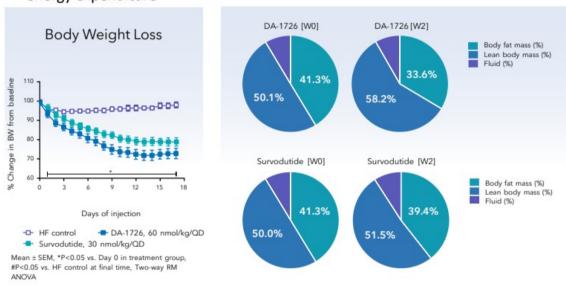
2. All treatments given as twice weekly injections for three weeks.

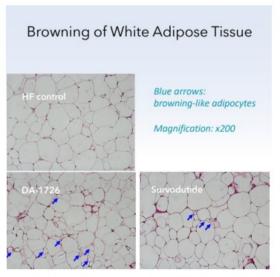


DA-1726: Comparative Study with Survodutide on Fat Mass Loss



- DA-1726 demonstrated superior weight loss efficacy compared to Survodutide in HF-DIO mice under similar dietary intake conditions
- DA-1726 demonstrated superior body fat mass reduction and lean body mass relative preservation compared to Survodutide
- The increase in beige or brown adipose-like cells in white adipose tissue by DA-1726 supports the mechanism of enhanced energy expenditure





Notes: HF-DIO (High Fat-Diet Induced Obesity), EE (energy expenditure), BAT (brown adipose tissue)

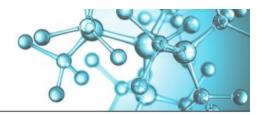


^{1.} Tae-Hyoung Kim et al. 84th Meeting of the American Diabetes Association. 2024; Abstract 2058-LB.

^{2.} All treatments given daily for three weeks.

^{3.} Browning of white adipose tissue analyzed using epididymal fat.

DA-1726: Potential in MASH



• DA-1726 further improved hepatic steatosis, inflammation, and fibrosis compared to semaglutide

Animals: male DIO-NASH mice
Regimen: Every three days S.C. injection
Dose: 100 & 200 nmol/kg DA-1726 vs. 250 nmol/kg semaglutide

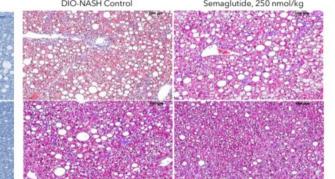
Steatosis & Inflammation (HE Staining)

DIO-NASH Control

Semaglutide, 250 nmol/kg

DIO-NASH Control

Semaglutide, 250 nmol/kg



Blue Color: Fibrosis

DA-1726, 200 nmol/kg

DA-1726, 100 nmol/kg

Arrow: Inflammation

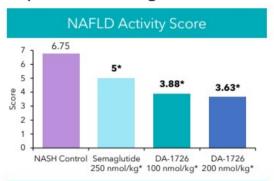
NASH (Non-Alcoholic Steatohepatitis); DIO (Diet Induced Obesity); S.C. (Subcutaneous); NAFLD (Non-Alcoholic Fatty Liver Disease); HE (Hematoxylin and Eosin); MT (Masson's Trichrome).

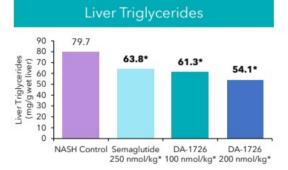
DA-1726, 200 nmol/kg

Dong-A Study Report 104854.

DA-1726, 100 nmol/kg

Jung IH et al. 82nd Meeting of the American Diabetes Association. 2022; Abstract 1333-P.

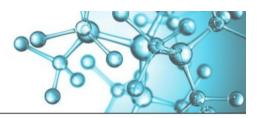




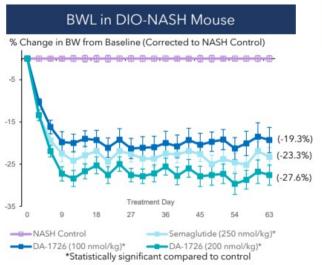
*Statistically significant compared to control

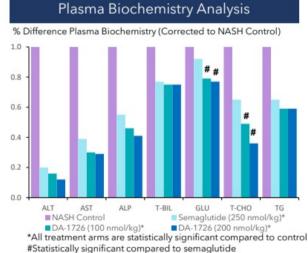


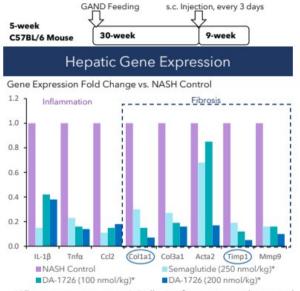
DA-1726: Potential in MASH



- DA-1726 reduced body weight and decreased plasma clinical chemistry parameters as well as decreased gene expression related to inflammation and liver fibrosis, with the low-dose group showing higher anti-NASH effects despite lower body weight loss compared to semaglutide
- Animals: male DIO-NASH mice
- · Regimen: Every three days S.C. injection
- Dose: 100 & 200 nmol/kg DA-1726 vs. 250 nmol/kg semaglutide







*All treatment arms are statistically significant compared to control

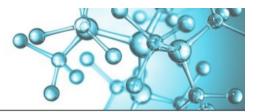
Notes: NASH (Non-Alcoholic Steatohepatitis); DIO (Diet Induced Obesity); S.C. (Subcutaneous).

Dong-A Study 104854

Jung IH et al. 82nd Meeting of the American Diabetes Association. 2022; Abstract 1333-P.



DA-1726: Phase 1 Part 1 & 2 to Evaluate Safety and Tolerability



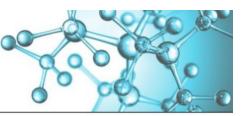
Rationale for study

- Gain a robust understanding of safety, tolerability of various dose levels in humans
- Superior weight loss compared with the pair-fed group, indicating much of the weight loss was attributed to reduced food intake via activation of GLP-1
- Superior to both the pair-fed and control groups in energy expenditure (secondary to glucagon activation)
- Potentially superior weight loss compared to approved obesity products

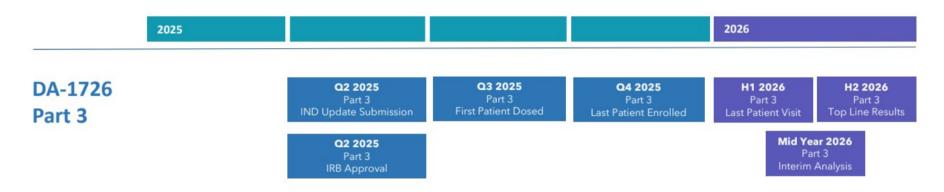
Phase I	
Study overview	 2-part study Part 1—Single ascending dose study Part 2—Multiple ascending dose study
Population	Obese otherwise healthy
No. of Subjects	 Approximately 100 subjects for both studies
Location	United States



DA-1726: Upcoming Phase 1 Part 3 Trial in Obesity Timeline

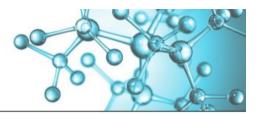


Phase 1 Part 3 will assess total weight loss at 24 weeks, exploring maximum titratable dose and dietary changes



Neuro Bo

DA-1726: Upcoming Phase 1 Part 3 to Evaluate Early Proof of Concept and Maximum Titratable Dose



Study Objectives

- Exploratory efficacy and early proof of concept after 24weeks of treatment
- Gain an understanding of drug titration and dosing including time to maximum-tolerated dose and individualized maximum-tolerated dose

Efficacy Endpoints

- Evaluate total weight loss at 24 weeks change in baseline at maximum-tolerated individualized dose to the end of treatment period
- Explore type of weight loss lean muscle mass versus fat loss
- Explore dietary changes including caloric intake and composition
- Evaluate durability of weight loss after discontinuation

Study Design	
Study Overview	 A multicenter, randomized, double-blind, placebo-controlled, Phase 1 clinical trial to evaluate the efficacy and safety of DA-1726 in obese, otherwise healthy subjects
Additional Endpoints	 Biomarker changes (PK, PD) Longer term safety (i.e., AEs, Lab, ECG)
Study Design	 3 Period design Titration Period – up to 12 weeks Treatment Period – at least 12 weeks at individualized maximum titratable dose Follow-up Period – 4 weeks
No. of Subjects and Location	 Approximately 80 subjects randomized in a 4:1 ratio of DA-1726 or Placebo at multiple centers in the United States
Enrollment (estimated)	■ FPFV Q3 2025 ■ LPLV 1H 2026

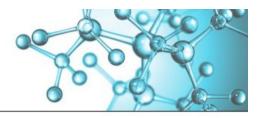




DA-1241

Orally Available, Potential First-in-Class GPR119 Agonist for the Treatment of **MASH**





DA-1241: Competitive Differentiation

	Resmetirom	DA-1241
Developer	Madrigal	NeuroBo
Indication	MASH	MASH
Status	Approved	Phase 2
Action	THR (Thyroid hormone receptor) β agonist	GPR119 agonist
Dosage	Once daily, oral	Once daily, oral
Efficacy in Human	MASH resolution with more than a 2-point reduction in MASH Activity Score (100mg: 30%, 80mg: 26%, Placebo: 10%) ⁽¹⁾	Effective in treating or modifying the progression of MASH, NAFLD Activity Score and Biomarkers
Safety in Human	Mild/transient diarrhea, mild nausea ⁽¹⁾	Headache, somnolence, fatigue, hypoglycemia, and cold sweat (reported in Phase I studies)
Differentiation	The first FDA approved treatment for MASH	 Unique mechanism of action. Works on inflammation associated with MASH Can be used as a monotherapy or in combination with other therapies Synergistic effect(s) when co-administered with a DPP4 or GLP1R agonist



DA-1241 Effect on Pathogenesis in MASH as a Monotherapy

therapy

GPR119 activation:

Monocytes and macrophages

- Macrophage activation
- Monocyte recruitment
- Macrophage differentiation
- → Reduction in hepatic and systemic inflammation

Hepatic stellate cells

Stellate cell activation

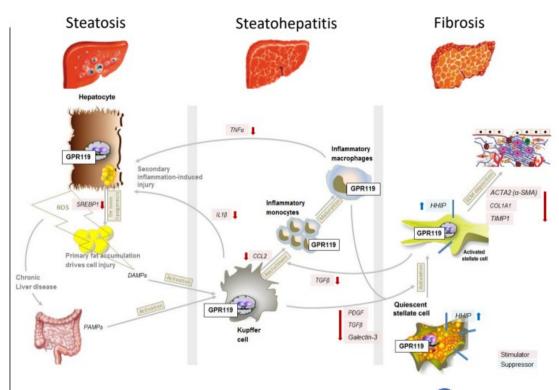
→ Reduce hepatic fibrogenesis

Hepatocytes and intestinal L-cells

De novo lipogenesis
Dietary fat absorption

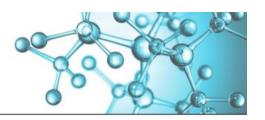
→ Reduce hepatic steatosis

DAMPs: danger-associated molecular patterns PAMPs: pathogen-associated molecular patterns ECM: extracellular matrix

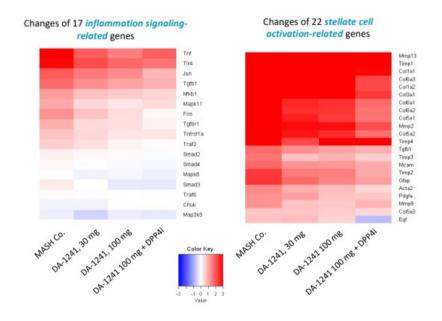


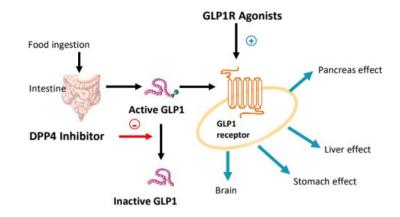


GPR119 in MASH Pathogenesis when Co-Administered with Other Therapies



- Effectively decreased hepatic inflammation
- Reduced systemic inflammation and fibrosis biomarkers
- Reduced hepatic lipid and collagen deposition in the liver of MASH mice



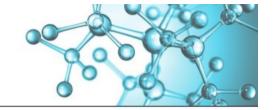


Activation of GLP1 Receptor Effects

- Pancreas
 - Increase proliferation of beta cells
 - Prevent the apoptosis of beta cells
 - Increase insulin biosynthesis
 - Increase insulin secretion
 - Increase insulin biosynthesis

- Liver
 - Decrease glucose production
- Stomach
 - Decrease gastric emptying
- Brain
 - Decrease appetite





DA-1241: Ongoing Phase 2a in MASH

Support use as a monotherapy

- DA-1241 modified the *progression of MASH* in Ob-MASH mice
- Exploring improved biomarkers (CCL2, TNFa, and TIMP1), liver fat content, and stiffness as measured by Fibroscan and MRI

Exploring Co-Administration with a DPP4 inhibitor

- Identify ability to effectively decreased hepatic inflammation
- Explore ability to reduce systemic inflammation and fibrosis biomarkers
- Reduced hepatic lipid and collagen deposition in Ob-MASH mice

Study Design	
Study Overview	 A multicenter, randomized, double-blind, placebo-controlled, parallel, Phase 2a clinical trial to evaluate the efficacy and safety of DA-1241 in subjects with presumed non-alcoholic steatohepatitis
Primary Endpoint	 ALT change from baseline in alanine transaminase
Study Design	 2 Part study Part 1: DA-1241 50mg, DA-1241 100mg, Placebo Part 2: DA-1241 100mg + Sitagliptin 100mg, Placebo
No. of Subjects	 Approximately 90 subjects with presumed MASH
Location	 Approximately 25 centers in the United States
Enrollment (planned)	■ FPI September 2023 ■ LPLV Q3

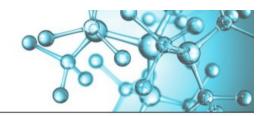
Notes: FPFV (First Patient First Visit); LPO (Last Patient Last Visit)





Financials and Capitalization





Cash Balance and Capitalization Table

Projected Cash Balance	As of June 30, 2024
Cash	\$27.9 million
Debt	None

Capitalization Table as of June 30, 2024	Common Stock Equivalents
Common Stock	8,221,038
Warrants (WAEP \$5.41) ⁽¹⁾	14,834,963
Options (WAEP \$398.30)	4,700
Restricted Stock Units	218,113
Common Stock Shares Available for Issuance under Equity Incentive Plans	385,921
Fully Diluted	23,664,735

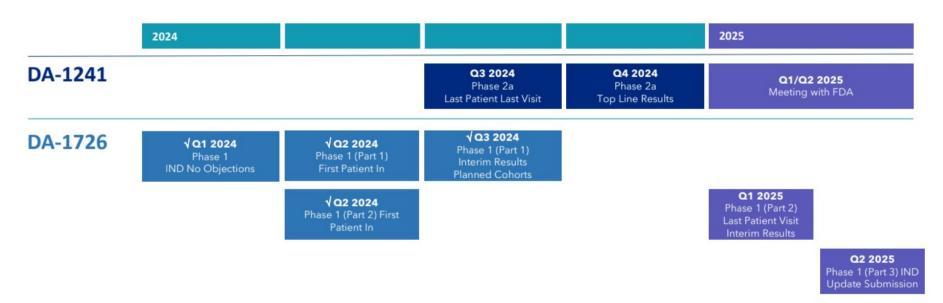
^{1.} Includes (i) 2024 Series A warrants to purchase 5,089,060 with an exercise price of \$3.93 per share; (ii) 2024 Series B warrants to purchase 7,633,591 with an exercise price of \$3.93 per share; (iii) 2024 Pre-Funded warrants to purchase 1,781,171 shares of common stock with an exercise price of \$0.001 per share; (iv) 2024 Placement Agent warrants to purchase 127,227 shares of common stock with an exercise price of \$4.9125 per share; (v) 2022 Series B warrants to purchase 177,938 shares of common stock with an assumed exercise price of \$0.00 per share; and (vi) 2021 and prior warrants totaling 25,976 with an weighted average exercise price of \$1,142.52 per share. No ratchets, price resets or anti-dilution provisions.

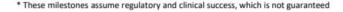


Multiple Near-Term Milestones: Targeting to Increase Shareholder Value



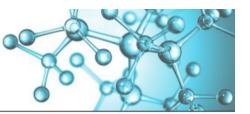
Investments in the **current DA-1241 Phase 2a** and **DA-1726 Phase 1** have the potential for significant returns in the event of clinical and regulatory success



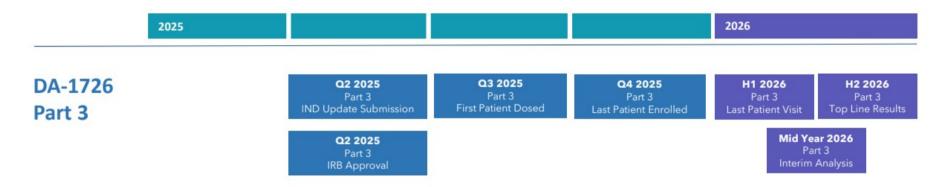




DA-1726: Upcoming Phase 1 Part 3 Trial in Obesity Timeline



Phase 1 Part 3 will assess total weight loss at 24 weeks, exploring maximum titratable dose and dietary changes.

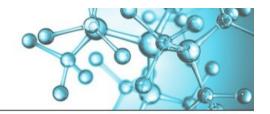






Investment Thesis





Compelling Investment Opportunity

Targeting Obesity and MASH with a Pipeline of Next Generation Therapeutics

Aiming to increase Shareholder Value through Multiple, Near-Term, Value Creating Milestones

DA-1726

- ✓ Ongoing Phase 1 trial for the treatment of obesity
- ✓ Part 1 (SAD) top line data from planned cohorts showed a strong safety profile
- o Additional cohort(s) are being added to Part 1 (SAD) to explore maximum tolerable dose
- o Part 2 (MAD) interim data readout from planned cohorts expected in Q1 2025

DA-1241

- ✓ Ongoing Phase 2a in subjects with presumed MASH
- o Top-line data readout expected in Q4 2024
- Backed by Strategic Partner and Major Shareholder, Dong-A ST
- Well capitalized with approximately \$27.9 million in Cash at the end of Q2 2024. Additional \$50 million in aggregate gross proceeds may be received if all milestone-based warrants are fully exercised.





Thank You!

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