BIONGE

Corporate Presentation 4Q24

Disclaimer

BioAge Labs, Inc. (the "Company") does not (nor their respective affiliates, directors, members, officers, employees or agents) make any representation or warranty, express or implied, as to, and no reliance should be placed on, the fairness, accuracy, completeness or correctness of the information and opinions contained in this Presentation or any other written or oral information made available to any interested party or its advisors and any liability therefor is hereby expressly disclaimed. This Presentation includes certain statements, estimates, targets and projections (including, without limitation, projected revenue, growth and demand expectations and estimated costs) provided by the Company with respect to the anticipated future performance of the assets described herein which reflect significant assumptions and subjective judgments by the Company's management. The Company believes that it is important to communicate its future assumptions and expectations to current and prospective investors. These assumptions and judgments may or may not prove to be correct, are subject to significant business, economic and competitive uncertainties and contingencies, many of which are beyond the control of the Company, and there can be no assurance that any estimates, targets or projections are attainable or will be realized. The actual results may vary from the projected results and such variations may be material. Any forward-looking statement made by the Company in this Presentation speaks only as of the date on which it was made. The Company, and their respective affiliates, directors, members, officers, employees and agents shall have no liability whatsoever (in negligence or otherwise) for the accuracy or sufficiency of the information contained herein, any errors, omissions or misstatements relating hereto, or any direct, indirect, consequential or other loss howsoever arising from any use of this Presentation or its contents or otherwise arising in connection with this Presentation. The Company undertakes no obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise. Nothing contained within this Presentation is or should be relied upon as a promise or representation as to the future. Interested parties should conduct their own investigation and analysis of the business, data and property described herein and the information contained in this Presentation. Only those representations or warranties that are made to the recipient in a definitive written purchase agreement when, as, and if it is executed, and subject to such limitations and restrictions as may be specified in such agreement, shall have any legal effect. By receiving this document the recipient agrees to be bound by the foregoing limitations. This Presentation shall remain the property of the Company, and is for the exclusive use of the recipient to whom it is addressed. The recipient agrees that, unless and until a definitive written purchase agreement has been executed, the Company will not be under any legal obligation of any kind. The recipient further acknowledges and agrees that the Company reserves the right, in its sole discretion without advance notice, to reject any and all proposals made by the recipient with regard to the project and to terminate discussions and negotiations with the recipient at any time and for any or no reason.

Trade names, trademarks and service marks of other companies appearing in this presentation are the property of their respective owners. Solely for convenience, the trademarks and trade names referred to in this presentation appear without the * and TM symbols, but those references are not intended to indicate, in any way, that we will not assert, to the fullest extent under applicable law, our rights, or the rights of the applicable licensor to these trademarks and tradenames.

This presentation concerns products that are under clinical investigation and which have not yet been approved for marketing by the U.S. Food and Drug Administration. It is currently limited by federal law to investigational use, and no representation is made as to its safety or effectiveness for the purposes for which it is being investigated.

Diverse professional experience across the biopharma ecosystem and an established track record of success

LEADERSHIP TEAM



Kristen Fortney, PhD
Co-Founder, CEO



Eric Morgen, MDCo-Founder, COO



Paul Rubin, MD
CMO & EVP Research



Ann Neale



Dov Goldstein, MD, MBA



Peng Leong, PhD, MBA CBO & TA Head, Brain Aging



BJ Sullivan, PhD Chief Strategy Officer

~800

~130

~95
US regulatory approvals*











SCHRÖDINGER.

















We are supported by an accomplished roster of board members and advisors

BOARD MEMBERS



Jean-Pierre Garnier, PhD Former CEO, GSK



Patrick Enright, MBA Managing Partner, Longitude Capital



Eric Morgen, MD Co-Founder, COO



Michael Davidson, MD CEO, NewAmsterdam Pharma



James Healy, MD, PhD Managing Partner, Sofinnova Investments



Rekha Hemrajani, MBA Public company CEO / CFO experience



Vijay Pande, PhD General Partner a16z Bio+Health



We are
harnessing
the biology of
human aging
to develop new
therapies for
metabolic
diseases





Azelaprag: an oral exercise mimetic for obesity in Ph2

3 key potential benefits: increased weight loss, improved tolerability, improved body composition

- Mechanism: small molecule apelin receptor APJ agonist
- Core value proposition: potential injectable-like weight loss (20%+) in an all-oral incretin combination
- Potential for significant upside: improved body composition & tolerability
- Clinical results: promoted muscle metabolism in Ph1b; well tolerated in 265 subjects
- Preclinical results: 2x overall weight loss with incretins; strong synergy with other satiety mechanisms
- 3x Ph2 trials planned: STRIDES with Zepbound (ongoing);
 STRIDES 2 with Wegovy; STRIDES T2D in type 2 diabetes

Oral NLRP3 inhibitor

- Internally discovered compound
- High potency & brain penetration
- Novel structure, mechanism, and binding site

BioAge platform

- Target discovery platform focused on muscle and metabolic health
- Proprietary multi-omics spanning 50+ years of human aging

Pipeline overview



Exercise mimetics can address key unmet needs in obesity

Exercise mimetics for obesity

Benefits of targeting exercise

- Safe way to increase energy expenditure
- Highly translational benefits

Key potential clinical value propositions

- Increased oral weight loss
- Improved body composition
- Improved tolerability



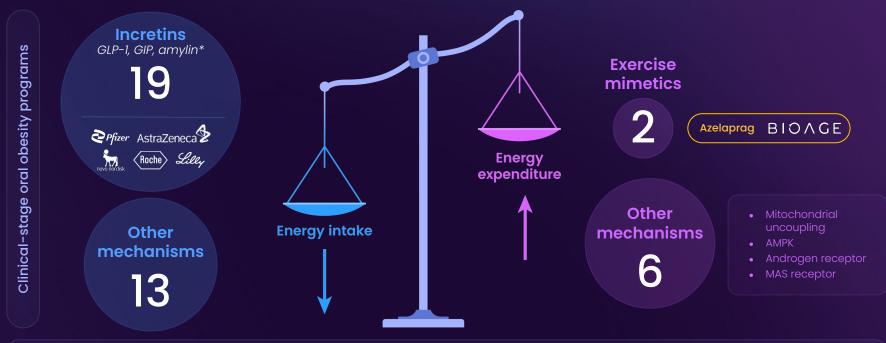
Therapeutic approach

Incretins + exercise mimetic



Potential pharmacological parallel to diet and exercise

Optimizing energy balance: the vast majority of oral development in obesity targets energy intake; far fewer target energy expenditure

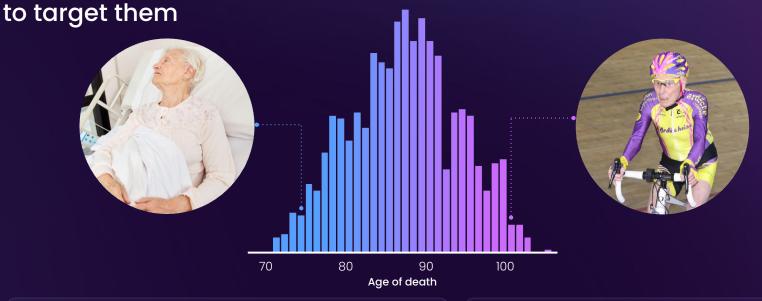


Energy intake + energy expenditure

complementary mechanisms that can be combined to enhance weight loss quantity and quality

Azelaprag Obesity

We know there are many pathways that impact human lifespan and metabolic health; it is our mission to find them and develop therapeutics



A 50+ year natural human experiment

50M+
Molecular data points

10K+
Profiles generated

50+ Years of follow-up

Detailed healthspan trajectories





- Grip strength
- Walking speed
- Mobility



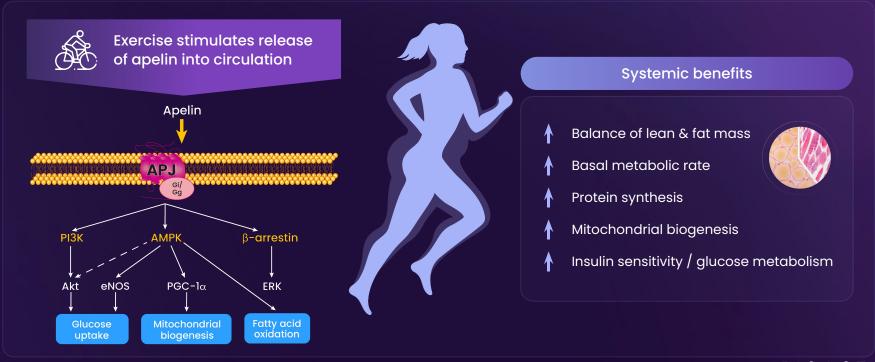
Metabolism

- BMI
- Skinfold thickness
- Waist / hip circumference

BIONGE

Apelin is an exerkine and mimics many benefits of exercise

Shared biology between apelin & exercise



Azelaprag has a favorable tolerability profile in 265 subjects across Phase 1 studies

Treatment-emergent adverse events with >3% incidence

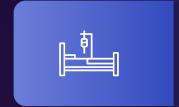
		Placebo (N=62)	Azelaprag (N=265)
Severe None have been reported	Headache	0	0
	Dizziness	0	0
	Back Pain	0	0
Moderate Only headaches observed in both active and placebo groups	Headache	1 (1.6%)	1 (0.4%)
	Dizziness	0	0
	Back Pain	0	0
Mild	Headache	2 (3.2%)	21 (7.9%)
	Dizziness	2 (3.2%)	5 (1.9%)
	Back Pain	2 (3.2%)	2 (0.8%)



Toxicology coverage

- No observed adverse effect level = highest dose tested
- 5-10x safety margin for Ph2 doses

Azelaprag significantly improved muscle atrophy and metabolism in our Ph1b trial of older subjects bed rest for 10 days



Healthy volunteers age 65+

N=10 placebo N=11 azelaprag 240mg delivered daily via IV

10 days of bed rest & dosing





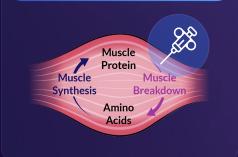
Muscle size



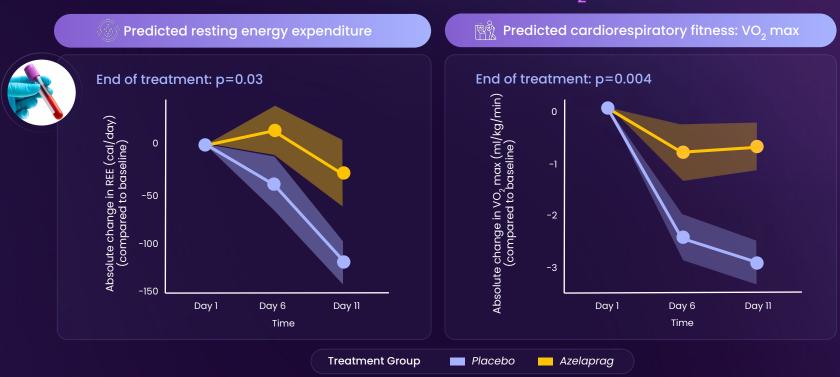
Fat infiltration



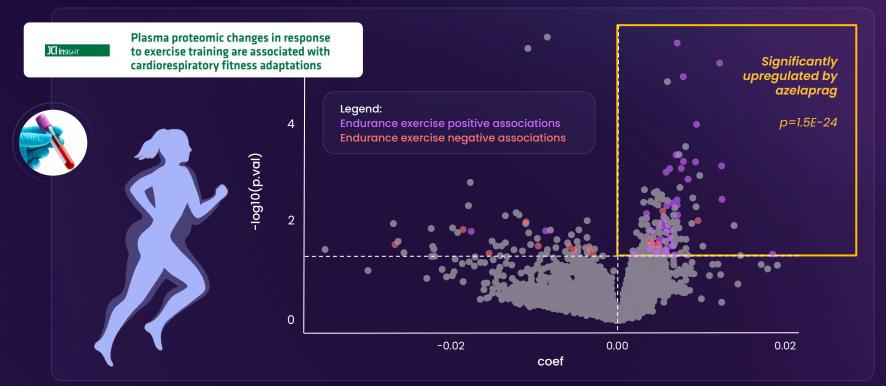
Muscle metabolism



Azelaprag induced shifts in the serum proteome that are indicative of preserved resting energy expenditure and VO₂ max



Azelaprag shifted the serum proteome consistent with being an exercise mimetic



Apelin genetics reinforce beneficial role in systemic metabolism







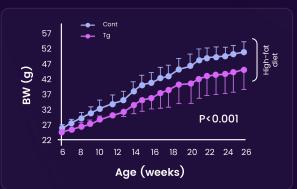
transo ↓ weigh high fat ↑ Basal

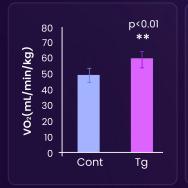
Apelin transgenic

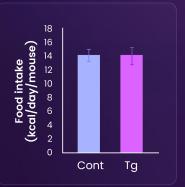
↓ weight gain on high fat diet

↑ Basal metabolic rate

No impact on energy intake





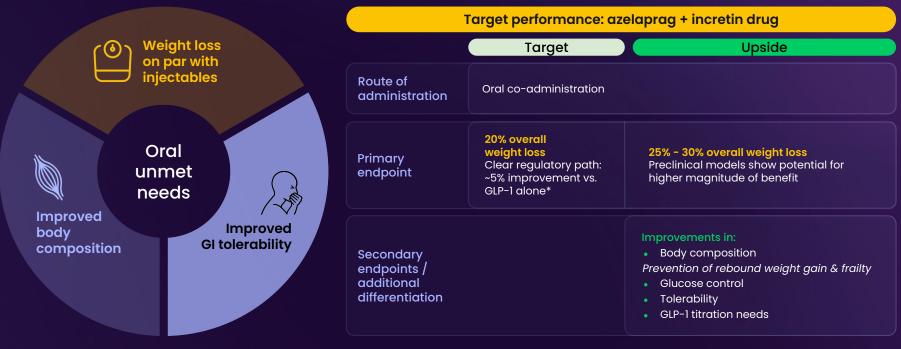




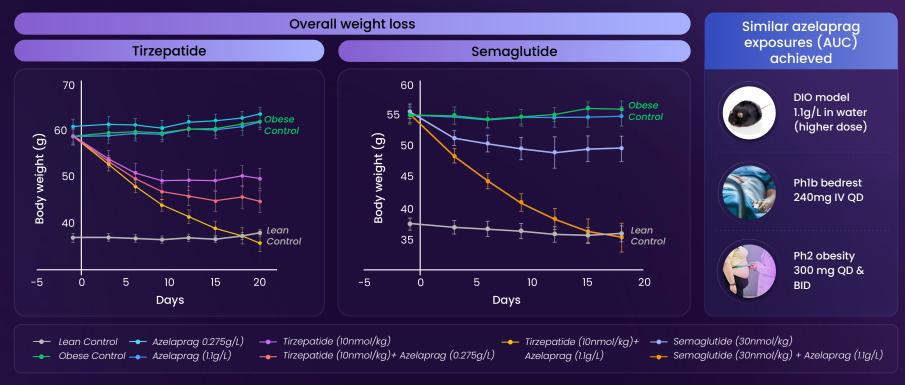
Consistent genetic evidence in humans:

Genome-wide significant associations for the apelin receptor APJ include BMI, lean mass, and serum lipids

Many ways to win: azelaprag, in combination with an incretin, has the potential to address key unmet needs, including oral weight loss, tolerability, and body composition



In preclinical obesity models, azelaprag more than doubled weight loss with incretins; similar results observed with other satiety mechanisms





Addition of azelaprag to tirzepatide restored body composition to that of lean controls in a dose-dependent fashion



ALLELAN NATIONAL OBLIGATION

We intend to initiate 3 clinical trials with azelaprag



Ongoing Ph2 STRIDES trial of azelaprag + tirzepatide in older obese patients

- 90% power for weight loss corresponding to an approvable difference
- 5 mg dose of tirzepatide mimics the magnitude of current oral weight loss





We are collaborating with Lilly on the Ph2 STRIDES trial

Lilly & Lilly Chorus are providing:

- Tirzepatide supply at no cost
- Therapeutic area expertise (e.g., regulatory, clinical science)
- Study execution (e.g., sites, vendors)

We also plan to initiate a second Ph2 trial with semaglutide; topline anticipated by end of 2026

Goal

Maximize program value & post-Ph2 optionality by demonstrating:

- An incretin class effect
- Full year of weight loss kinetics



Efficacy in younger patients

Base case: We are targeting a class label as an incretin add-on therapy

Incretin-agnostic add-on therapy



- Target profile: oral product that can be added to <u>any</u> <u>incretin</u> to increase weight loss and improve tolerability & body composition
- Flexible potential use: could be combined with oral and injectable incretins
- Key addressable patients: high BMI; poor incretin response (efficacy, tolerability)

Ph3 development

Financeable from follow-on post Ph2 data

Approvable efficacy +5% overall weight loss at 1 year

Database required for approval placebo-controlled trials with 3K patients on active treatment

Potential trial designs to support incretinagnostic label:

- Azelaprag + tirzepatide
 vs. tirzepatide monotherapy
- Azelaprag + semaglutide vs. semaglutide monotherapy

There is an additional attractive path as part of an all-oral fixed-dose combination

Oral fixed-dose combination (likely through pharma partnership)



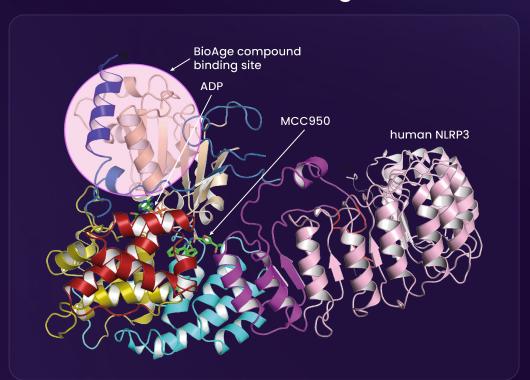


- Target profile: potential best-in-class oral weight loss in a single product
- Key addressable patients: Broad 77% who prefer orals
- Best positioned partners: pharma with an oral small molecule incretin or appetite-suppressing agent
- Commercial advantages: LOE extension given new formulation IP

Approvable efficacy & database required for approval are the same between development paths

NLRP3 Neuroinflammation

We have discovered structurally and mechanistically novel NLRP3 inhibitors bind in distinct region



Collaborator profile



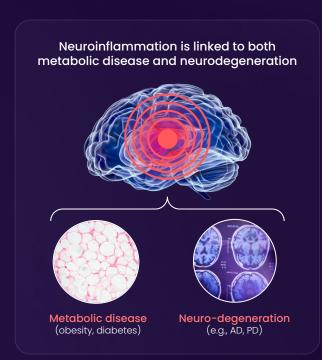
Matthias Geyer, PhD Director, Institute of

Structural Biology University of Bonn

Expert in NLRP3 structural biology

Identified the structure of NLRP3 decamer bound to MCC950

We are developing NLRP3 inhibitors well positioned to address the neuroinflammation that drives metabolic and neuro diseases







Potential best-in-class potency

Low single-digit nanomolar IC₉₀ in human microglia



CNS penetrant

Brain / plasma ratio up to ~1 & high free fraction



Selective. reversible inhibition of NLRP3



First patent granted July 18, 2023

Ph1 SAD / MAD goals

Human potency & duration of effect

CNS penetration



Strong in vitro safety profile

Highlights & key milestones

Azelaprag, an oral exercise mimetic for obesity: potential for improved weight loss, tolerability, and body composition

l Amexp

Amgen asset with meaningful clinical experience

Well tolerated in 265 subjects across eight Ph1 studies; metabolic benefits consistent with exercise in Ph1b



Established APJ biology & genetics highlight promise of azelaprag in obesity and metabolic indications 2x overall weight loss with incretins in preclinical studies



Highly differentiated opportunity to create an all-oral weight loss regimen

Well tolerated, complementary oral mechanism that enhances weight loss with oral GLP-1

NLRP3: highly potent, CNS penetrant, oral compounds for neuroinflammation; emerging promise in obesity





BIONGE