



**Age stronger,
live longer...**



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Ridgeline overview

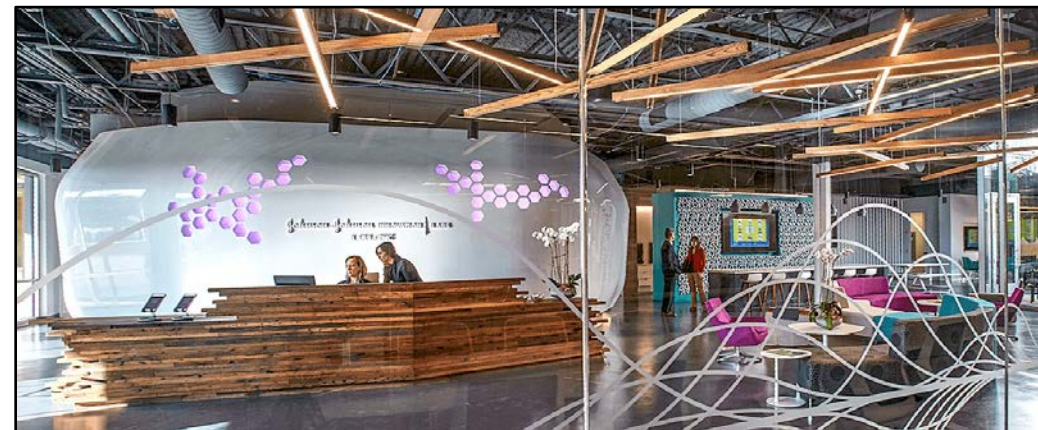
- Biotech company based in the Texas Medical Center (Houston, TX)
- Part of Johnson & Johnson Innovation (JLABS) network
- Focused on novel targets to treat
 - ✓ sarcopenia, frailty, muscle repair
 - ✓ obesity & obesity-linked diseases
 - ✓ weight loss-induced muscle dysfunction
- Healthy Longevity Catalyst awardee (US Nat. Academy of Medicine)
- Raised >\$10M in non-dilutive funding



Houston, TX



Texas Medical Center



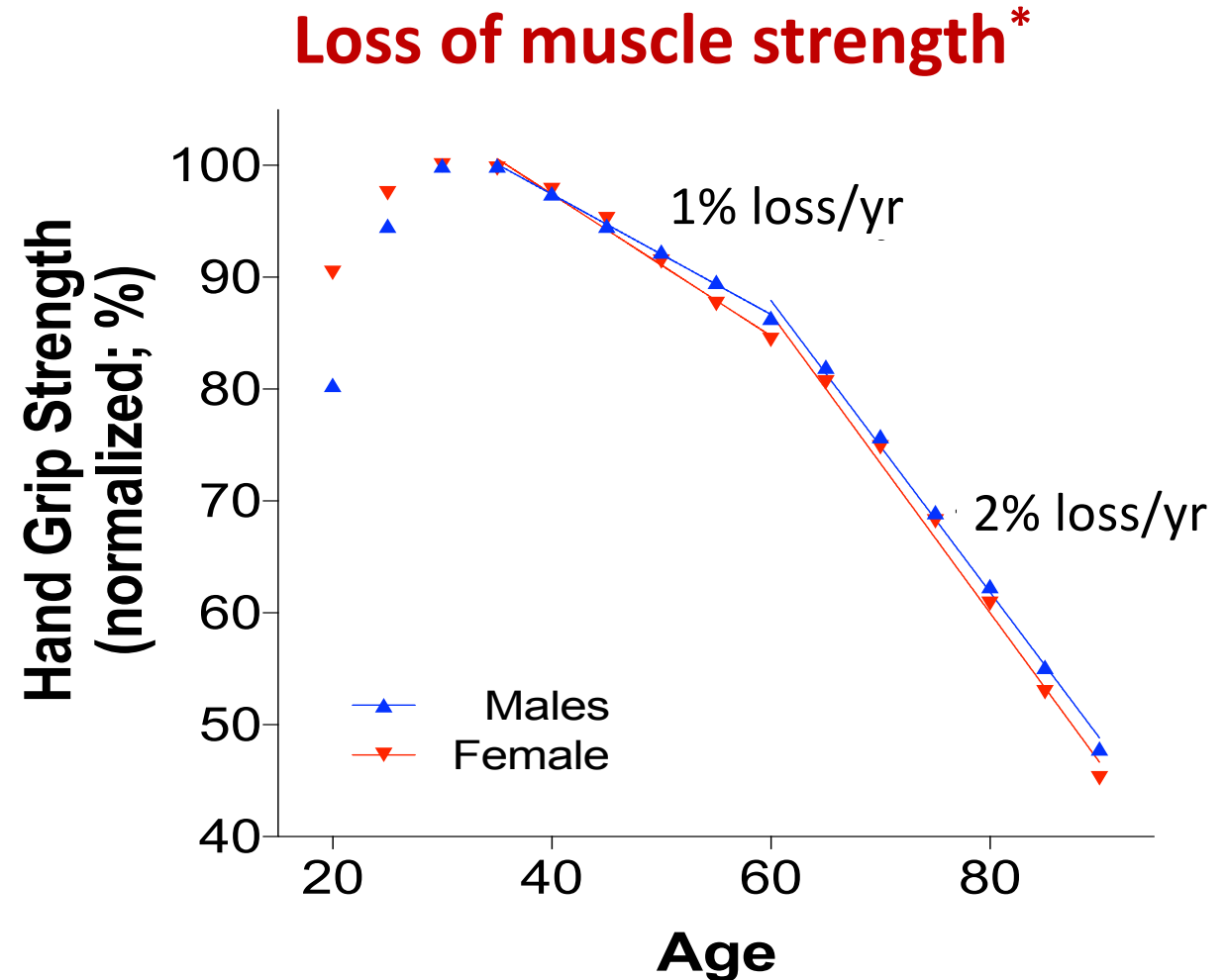
JLABS@TMC



Muscle strength relentlessly declines with age

All adults become

- 25% weaker by age 60
- 50% weaker by age 80
(compared to age 35)





Age-linked muscle decline leads to...

Loss of

- quality of life
- mobility
- independent living
- cognitive function



Increase in

- heart & pulmonary diseases
- falls & fractures
- metabolic disease (e.g., diabetes)
- all-cause mortality



There are no FDA-approved therapies to reverse age-linked muscle decline



Our solution: RT-002 daily pill to restore muscle

- Will be the first FDA-approved oral drug to reverse age-linked muscle decline & weakness
- First-in-class oral drug to build muscle mass & strength in aging individuals
- Targets a novel mechanism of action
- Reactivates muscle stem cells to repair and regenerate aging muscles
- Strategic clinical path to accelerate FDA approval

THIS



NOT
THIS



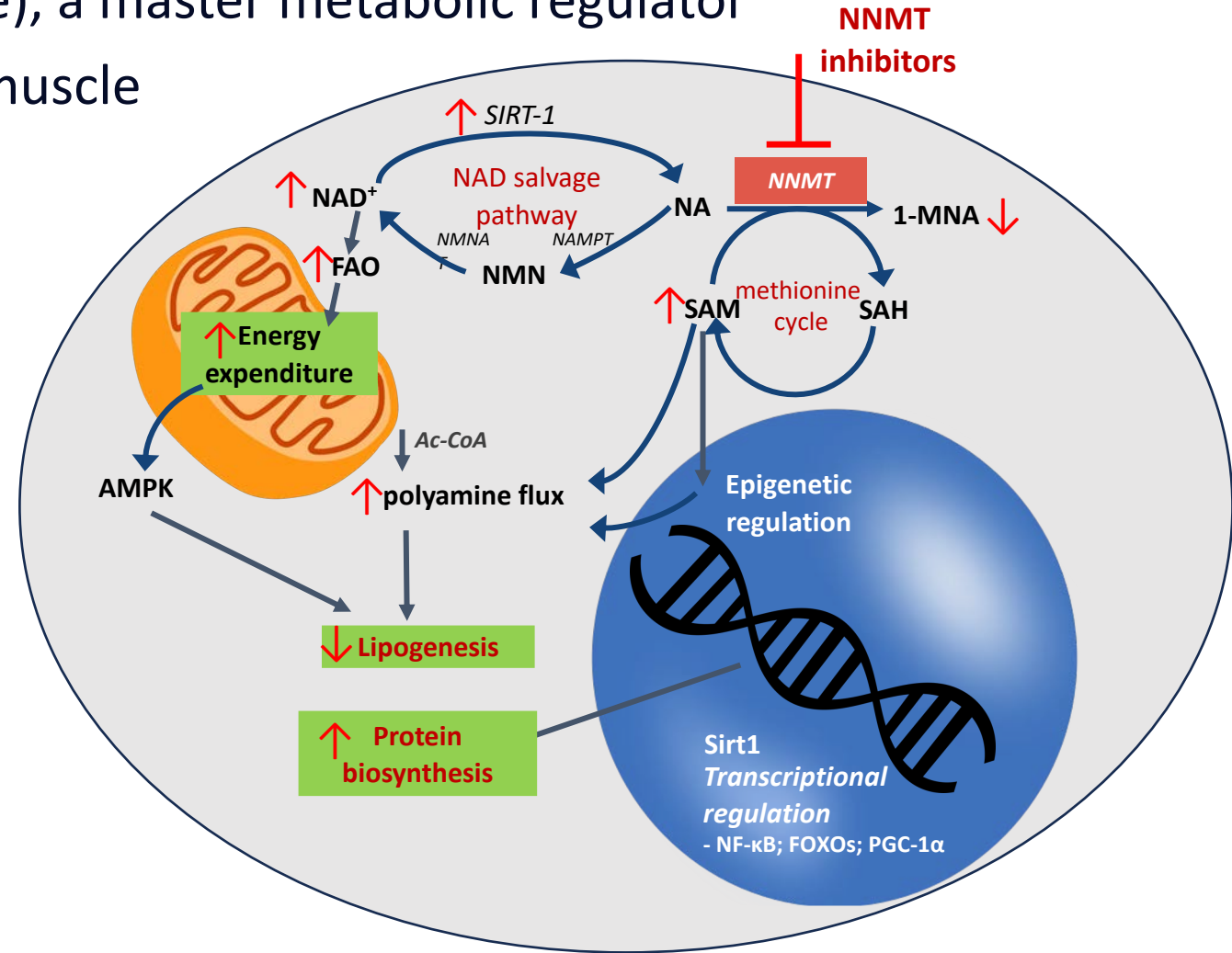


RT-002 inhibits a novel cellular target

- NNMT (nicotinamide N-methyltransferase), a master metabolic regulator
- Selectively upregulated in aging skeletal muscle

NNMT inhibitors

- ✓ increase muscle function
- ✓ promote muscle hypertrophy
- ✓ accelerate muscle regeneration
- ✓ reduce intramyocellular lipids
- ✓ enhance mitochondrial bioenergetics
- ✓ decrease insulin resistance



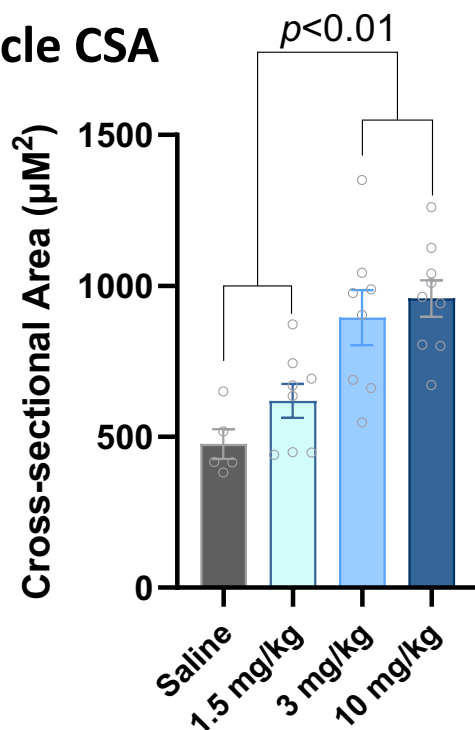


Muscle repair: drug increased muscle size

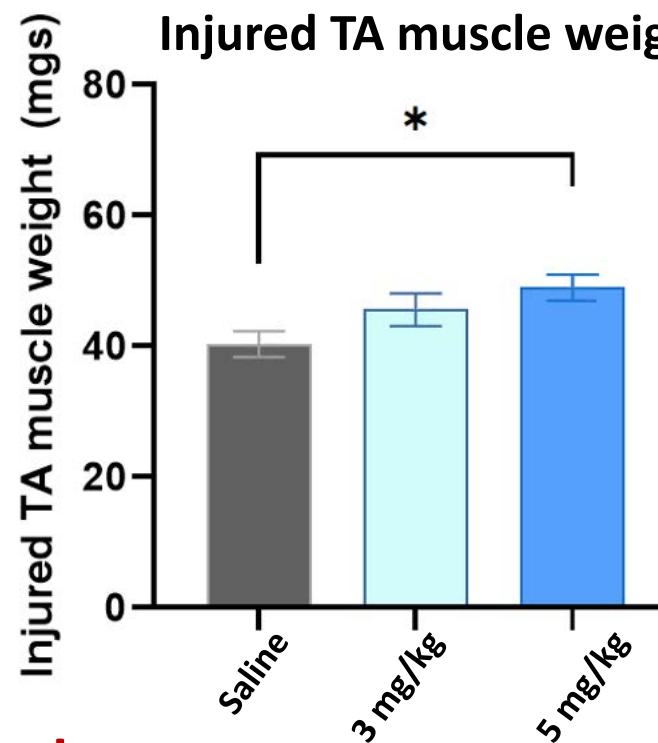
Aged mouse muscle injury model

- >100% increased fiber cross-sectional area (CSA), showing increased muscle repair & growth
- 33% increased muscle mass, indicating increased muscle regeneration & growth

Injured TA muscle CSA



Injured TA muscle weight



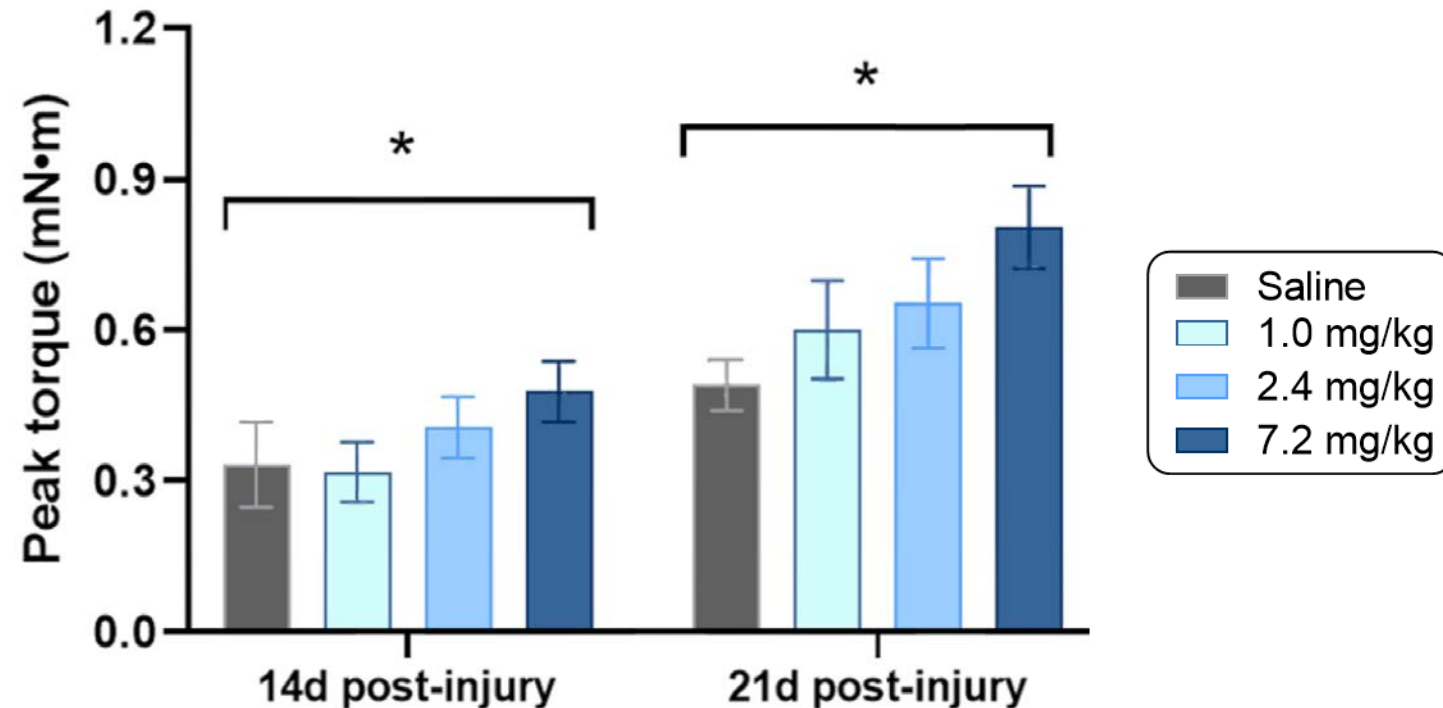
NNMT drug greatly increased muscle repair & growth



Muscle repair: drug increased muscle strength

Aged mouse muscle injury model

- Muscle strength increased ~2-fold at 14- and 21-d post-injury
- Recovered >85% of strength by 21d



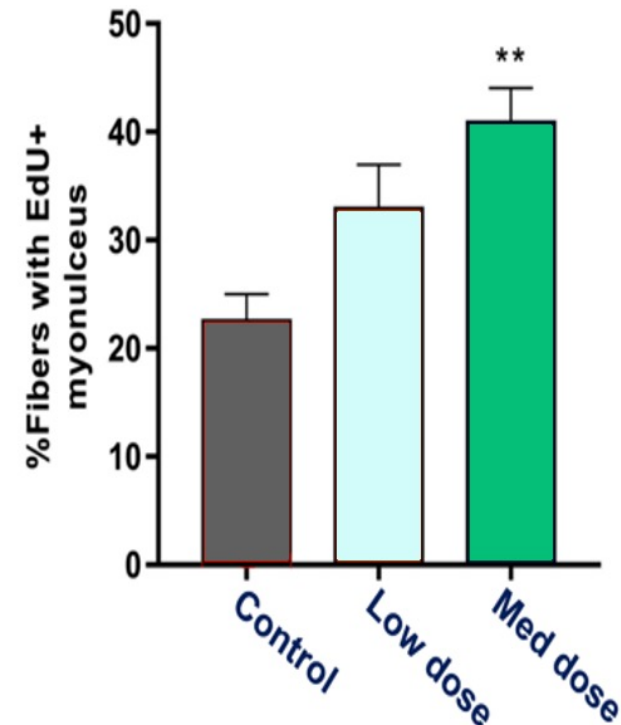
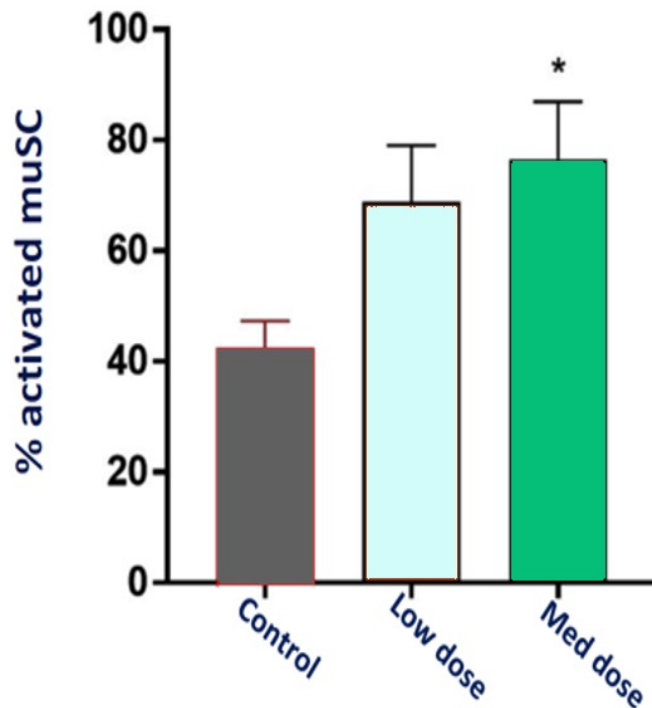
NNMT drug greatly accelerated and increased recovery of muscle strength



Muscle repair: drug increased muSC activation

Aged mouse muscle injury model

- muSC (muscle stem cell) proliferation increased ~50%
- muSC myofiber fusion index increased ~2-fold

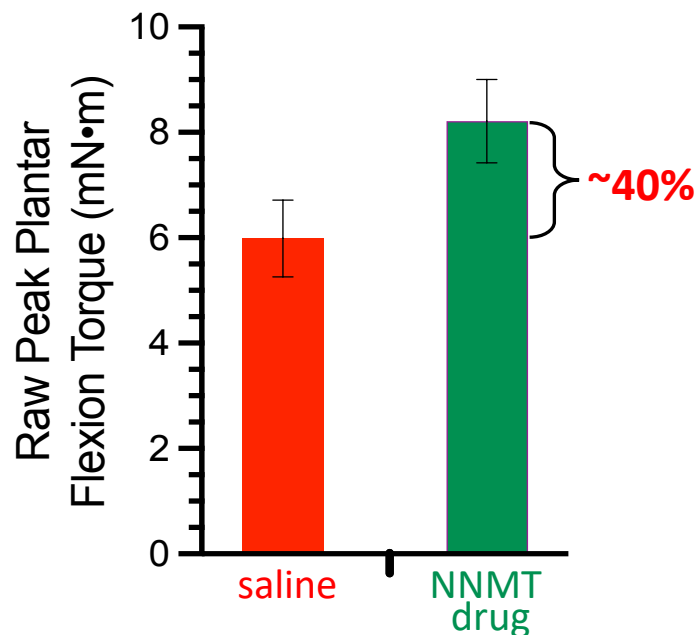


NNMT drug greatly increased muscle regeneration by reactivating muscle stem cells

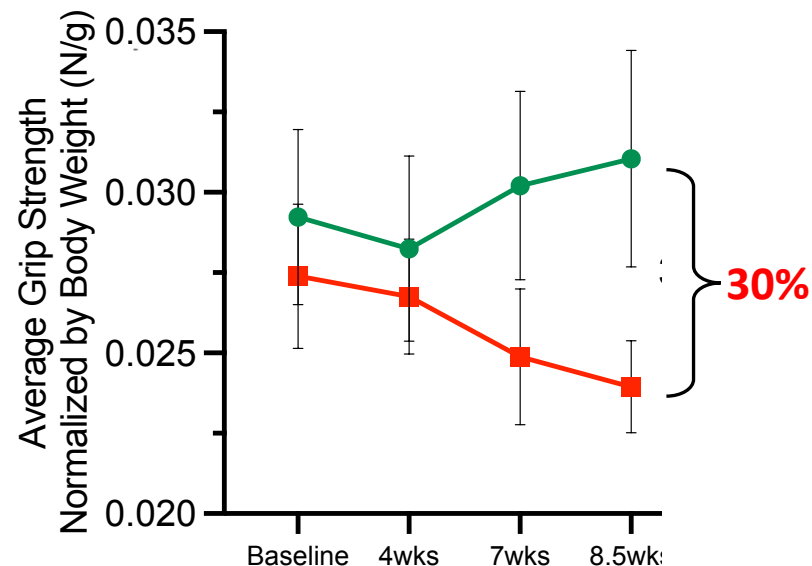
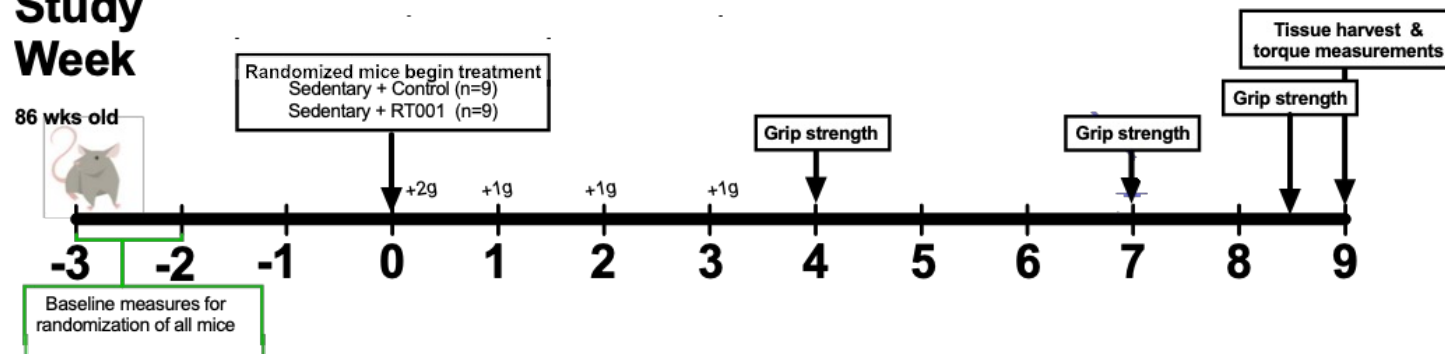


Muscle aging: drug builds muscle strength

Aged sedentary mouse model



Study Week



NNMT drug increased peak muscle strength 40%; prevented age-linked muscle weakness



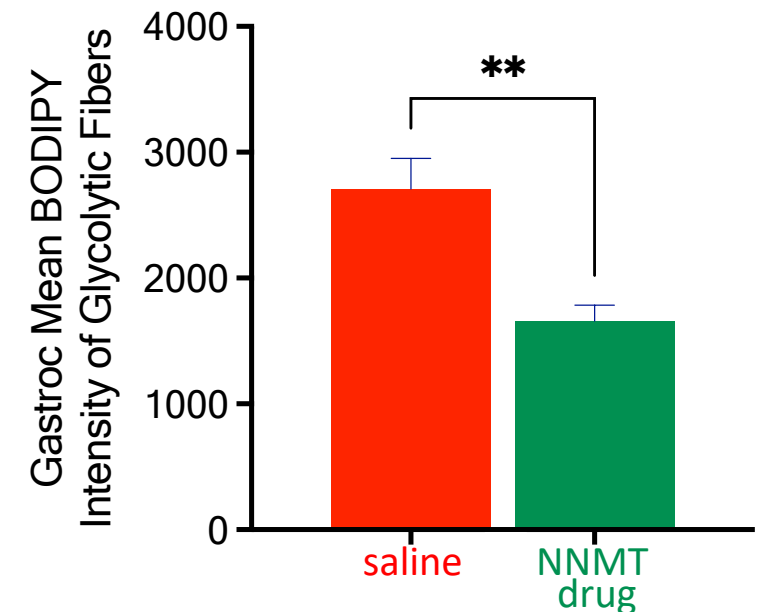
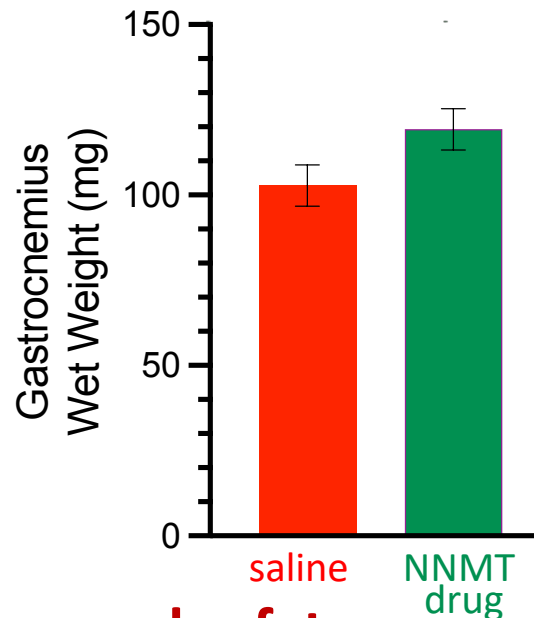
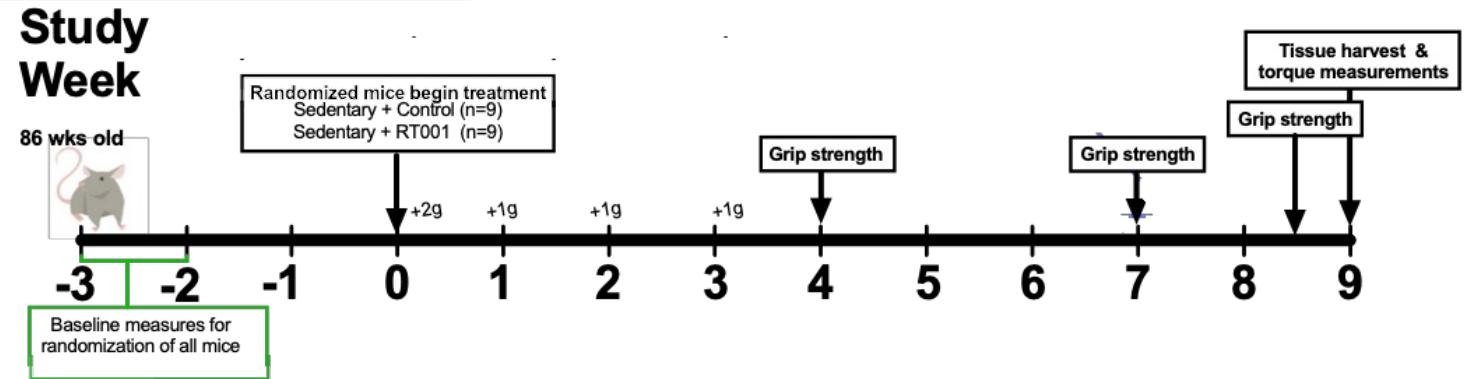
Muscle aging: drug builds muscle mass & quality

Aged sedentary mouse model

NNMT drug

- increased muscle mass ~20%
- increased bone density
- reduced intramuscular fat* ~40%

NNMT drug greatly reduced intramuscular fat





RT-002: on track to begin human testing

Completed

- ✓ AMES genotoxicity studies; no concerns
- ✓ Unremarkable off-target profile; no activity against cardiac ion channels
- ✓ GLP safety/tox studies in rodents; no concerns
- ✓ Non-GLP safety/tox studies in mini-pigs; no concerns
- ✓ Pre-IND meeting with FDA; cleared for IND submission
- ✓ GLP safety/tox studies in minipigs

In progress

- GLP cardiovascular study in minipigs
- IND submission to FDA
- First-in-human Phase 1 trial (SAD/MAD)



RT-002: low cost, high-yield, & scalable synthesis

Completed

- ✓ Stable RT-002 API polymorph identified
- ✓ High-yield 3-step synthesis established with US CDMO
- ✓ Consistent, reproducible high-purity API with CDMO
- ✓ Scale-up of 4 kg API for GLP studies
- ✓ GMP manufacturing process established for drug substance
- ✓ Excipients established for drug product



In progress

- 9 kg drug product under GMP conditions for Phase 1 & stability studies



Rapid & strategic path to large markets

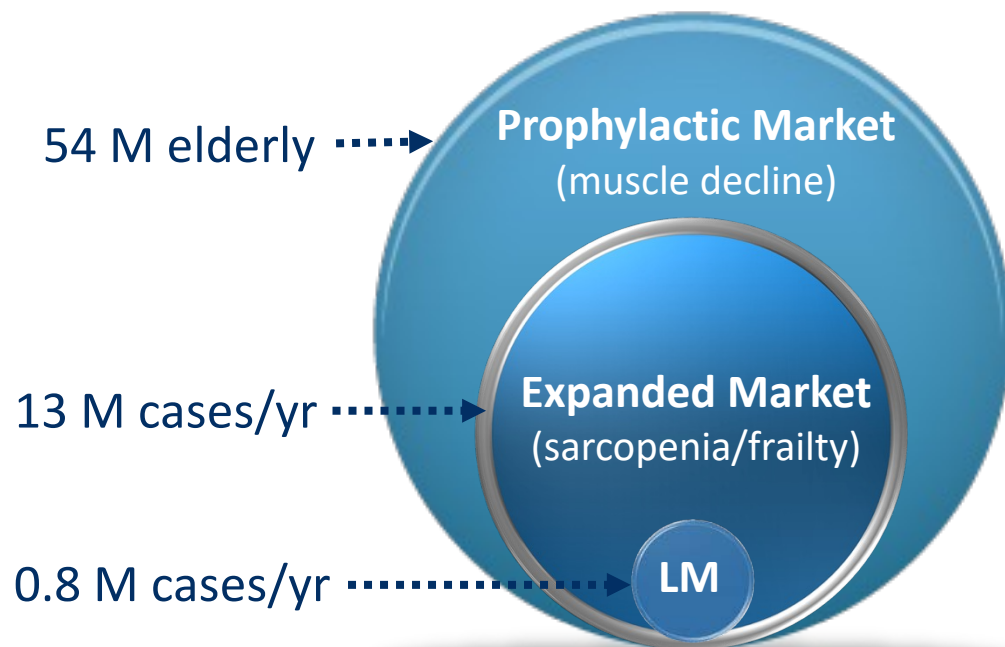
Launch market (LM)

- recovery from knee replacement surgery

Expanded market

- sarcopenia & frailty

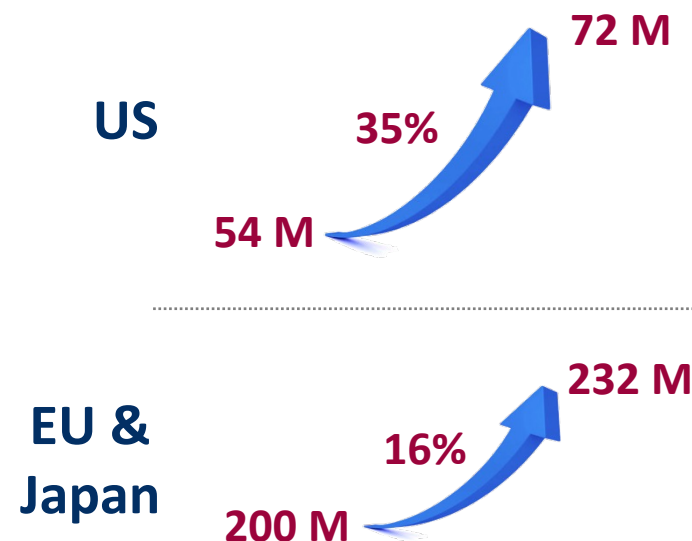
US market



Market growth

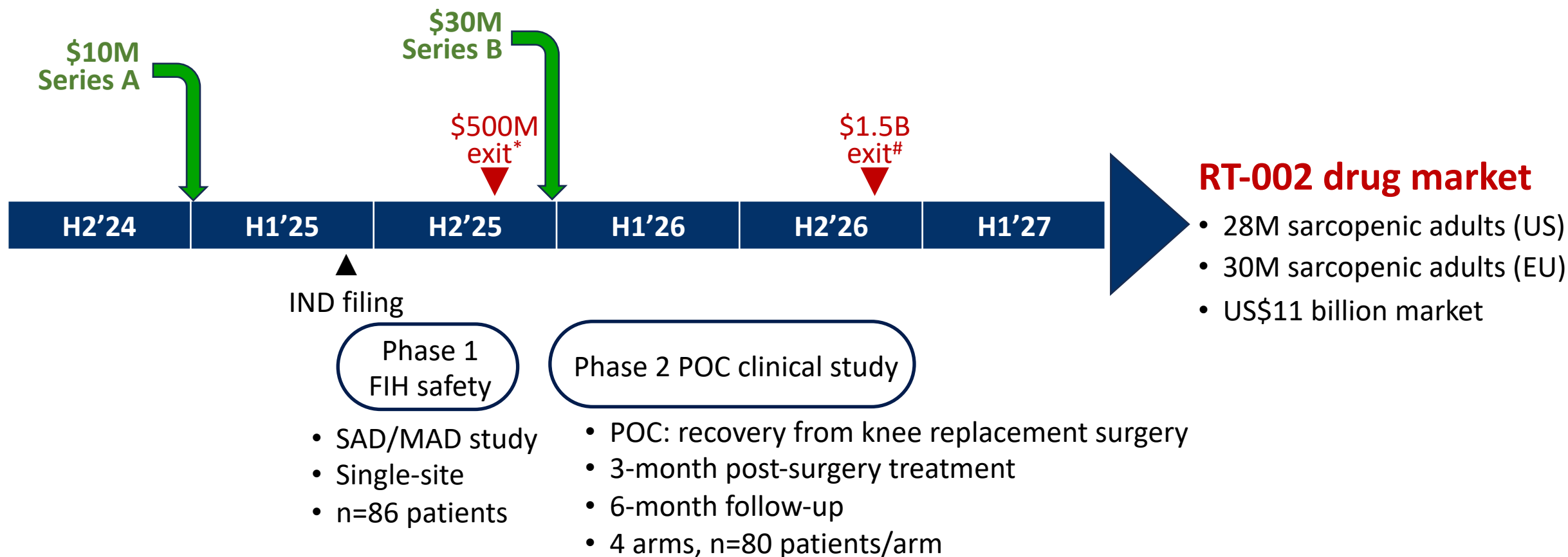
- driven by growing elderly populations

Elderly population (2022 – 2023)





Rapid clinical milestones & high ROI exits









*Novo Nordisk paid \$532M for Omega (Jan'24) (BioPharmaDive)

#Eli Lilly paid \$1.9B for Versanis (7/23); Novo Nordisk paid \$1.1B for Inversago (8/23) (BioPharmaDive)



RT-002: superior product profile

| |  NOVARTIS |  CHUGAI |  astellas |  biophytis |  BIOAGE |  Ridgeline Therapeutics |
|------------------------------|--|---|--|---|--|---|
| Asset | Bimagrumab (activin receptor -mAb) | GYM3290 (activin receptor -mAb) | Stem cells | BIOS 101 (oral steroid) | BGE-105 (apelin receptor agonist) | RT-002 |
| Phase | 3 | 1 | IND | 3 | 1B | IND |
| Oral drug | X | X | X | ✓ | ✓ | ✓ |
| Increases muscle size | ✓ | ✓ | ? | ✓ | ✓ | ✓ |
| Increases muscle strength | X | ✓ | X | X | ? | ✓ |
| Reduces muscle fat | X | X | X | X | ? | ✓ |



Funding & strategic partnerships

Seeking \$10M strategic investment to accelerate clinical trials

- \$\$ to complete first-in-human Phase 1 trials (6-mo, single-site trial design)
- High-value out-licensing to pharmaceutical giants
 - end of Phase 1 clinical trial (SAD/MAD safety readout)
 - end of Phase 2a clinical trial (POC efficacy)

Seeking strategic partnerships to accelerate clinical trials

- Collaborate on clinical trial design & execution
- Collaborate on EU regulatory approval
- Out-licensing opportunities



Experienced leaders & renowned advisors

Leadership



Stan Watowich, PhD
Founder & CEO



Harshini Neelakantan, PhD
Executive Director of Research



Suzanne Tomlinson, PhD, MBA
Director, Finance & Operations



Neil Warma, MBA
Executive Chair

Scientific Advisors

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Newcastle University, England

Johan Auwerx, PhD

Professor
Ecole Polytechnique (Switz.)

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Univ Minnesota

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Director, Touchstone Diabetes Ctr
Univ Texas SouthWestern

Elena Volpi, MD, PhD

Director, NIH Pepper Ctr
Univ Texas Medical Branch



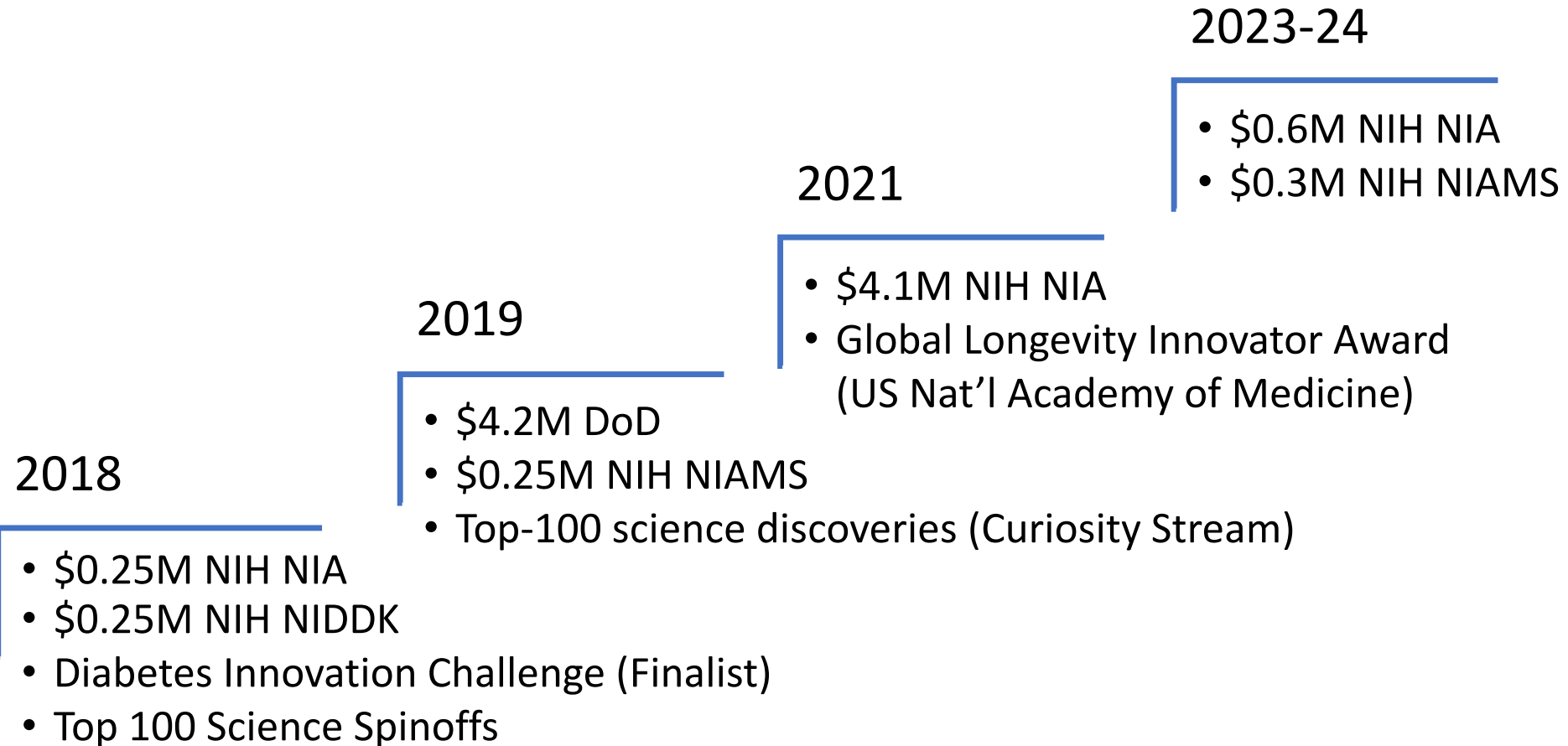
Robust pipeline of early-stage assets



| Indication | Discovery | Preclinical | Phase 1 |
|----------------------------|------------------------|------------------------|---------|
| Muscle regeneration | | | |
| Muscle damage recovery | <div><div></div></div> | <div><div></div></div> | RT-002 |
| Frailty & sarcopenia | <div><div></div></div> | <div><div></div></div> | RT-002 |
| ACL injuries | <div><div></div></div> | <div><div></div></div> | RT-003 |
| Metabolic diseases | | | |
| Obesity | <div><div></div></div> | <div><div></div></div> | RT-004 |
| NASH | <div><div></div></div> | <div><div></div></div> | RT-004 |
| Chronic kidney disease | <div><div></div></div> | <div><div></div></div> | RT-004 |



Funding & accomplishments





RT-002: age stronger, live longer

- Oral drug to restore & maintain muscle strength
- CMC, safety, & efficacy studies have significantly derisked IND filing
- Superior characteristics compared to competing therapeutics
- Rapid & strategic regulatory path to market approval
- Experienced leadership and renowned scientific advisors
- Strong composition-of-matter IP portfolio

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