

Solid Biosciences

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Corporate Overview

October 2019



This presentation includes "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995, which involve a number of risks and uncertainties. These forward-looking statements include all matters that are not historical facts and, without limiting the foregoing, can be identified by the use of forward-looking terminology, including the terms "believe," "estimate," "project," "anticipate," "expect," "seek," "predict," "continue," "possible," "intend," "may," "might," "will," "could," would" or "should" or, in each case, their negative, or other variations or comparable terminology. They appear in a number of places throughout this presentation and include statements regarding our intentions, beliefs or current expectations concerning, among other things, our product candidates, research and development and clinical trial plans, manufacturing plans, commercialization objectives, prospects, strategies, the industry in which we operate and potential collaborations. We derive many of our forward-looking statements from our operating budgets and forecasts, which are based upon many detailed assumptions. While we believe that our assumptions are reasonable, we caution that it is very difficult to predict the impact of known factors, and, of course, it is impossible for us to anticipate all factors that could affect our actual results. For a discussion of potential risks and uncertainties, and other important factors, any of which could cause our actual results to differ from those contained in the forward-looking statements, see the "Risk Factors" section, as well as discussions of potential risks, uncertainties and other important factors, in our most recent filings with the Securities and Exchange Commission. All forward-looking statements included in this presentation represent our views as of the date hereof and should not be relied upon as representing our views as of any date subsequent to the date on the cover page of this presentation. We anticipate that subsequent events and developments will cause our views to change. However, while we may elect to update these forward-looking statements at some point in the future, we specifically disclaim any obligation to do so.

No representation or warranty is made as to the accuracy or completeness of the information or analysis in this presentation.

Purpose-Built to Solve Duchenne Muscular Dystrophy (DMD)



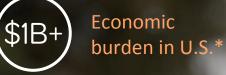
360-Degree Approach Differentiated Lead Gene Transfer Scalable Manufacturing Process

Duchenne Is A Devastating Muscle-Wasting Disease





10-15,000 cases in the U.S.



Progressive & irreversible



No good treatment options

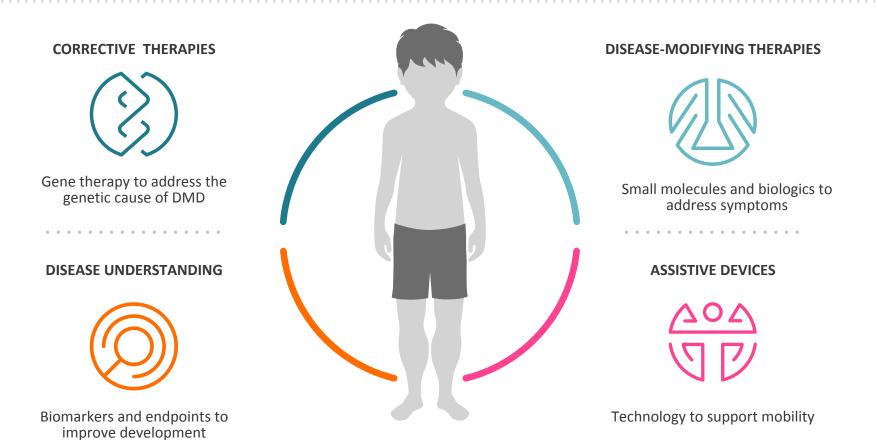


100% FATAL

Caused by mutations in the dystrophin gene

Solid Is Addressing The Full Spectrum Of Duchenne





Solid Pipeline



	NAME	DISCOVERY	PRECLINICAL	PHASE I/II	PHASE III	MARKETED
(CORRECTIVE THERAPIES SGT-001 Gene Transfer	•	•		0	O
	DISEASE MODIFYING THERA Anti-LTBP4 Biologic	APIES	0	0	0	0
	NAME	PROTOTYPE DEVELOPMENT		TESTING		MARKETED
<u>200</u> 四辺	ASSISTIVE DEVICES Solid Suit	•				0
EXPL	ORATORY PRE-DEVELOPMENT PROGRAM	IS RESEARCH		DISCOVERY		PRECLINICAL
E)	Next-Generation Promoter Next-Generation Vector Next-Generation Delivery Muscle Strength	• •				



Corrective Therapies

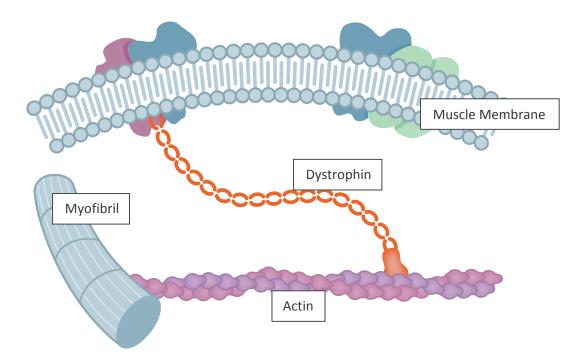
Innovation in Gene Transfer



Gene Therapy To Address The Genetic Cause Of DMD



HEALTHY MUSCLE

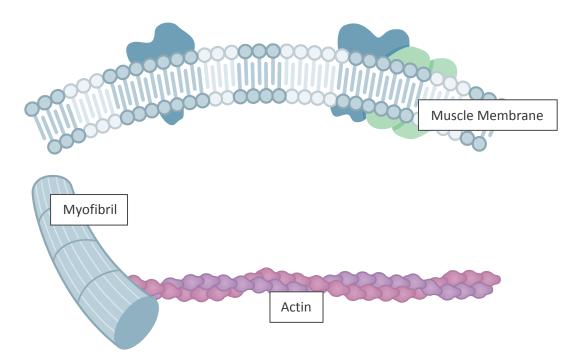


Dystrophin protects the muscle from damage and stabilizes critical dystrophinassociated proteins

Gene Therapy To Address The Genetic Cause Of DMD



DYSTROPHIC MUSCLE

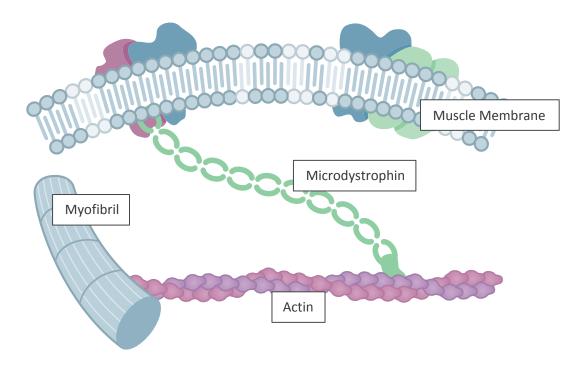


- In DMD, mutations in the dystrophin gene result in the loss of functional dystrophin protein
- Muscle fibers become unstable, lose the ability to repair and become fibrotic

Gene Therapy To Address The Genetic Cause Of DMD

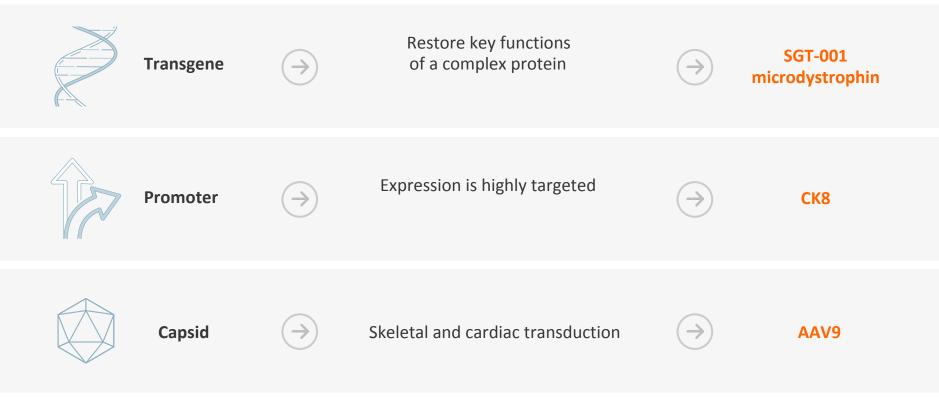


TREATED MUSCLE



Microdystrophin gene transfer encodes for a functional dystrophin protein surrogate designed to replace the missing dystrophin protein

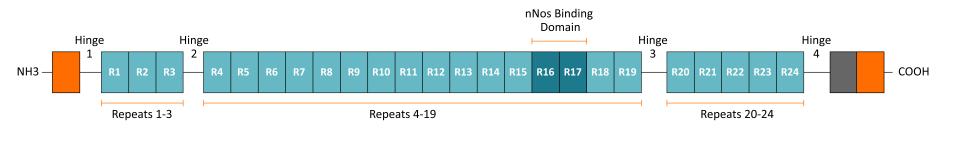




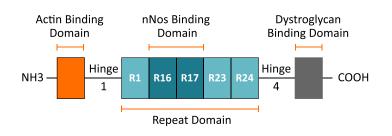
SGT-001 Microdystrophin Has A Differentiated Composition



Full Length Dystrophin Protein



SGT-001 Microdystrophin Protein

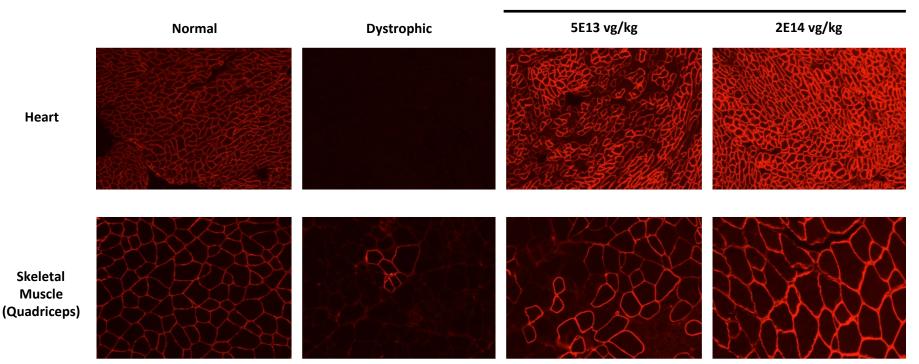


- Exclusive licenses to key patent portfolios covering microdystrophin variants and functional domains (e.g., the neuronal nitric oxide synthase (nNOS) binding domain)
- SGT-001 selection based on more than 30 years of research; confirmed through internal comparative analysis

SGT-001 Promotes Significant Cardiac And Skeletal Muscle SGT-001 Microdystrophin Expression In Preclinical Models



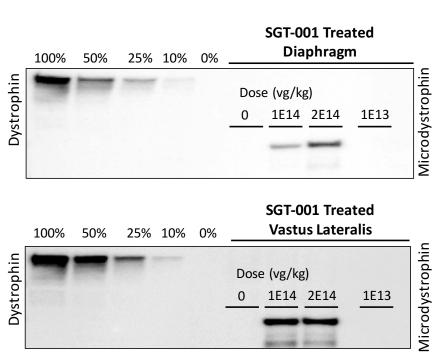
SGT-001



Heart

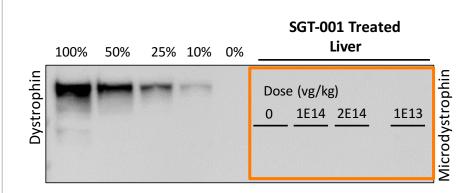


CK8 Muscle-Specific Promoter Restricts Expression To Muscles In Preclinical Studies

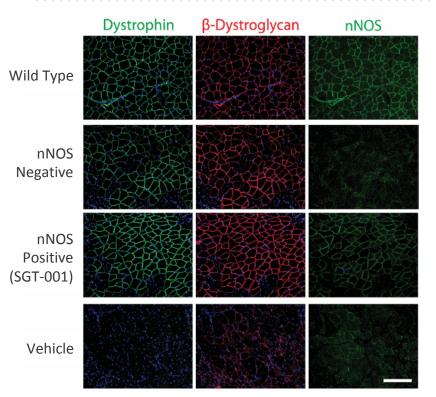


Target Tissue

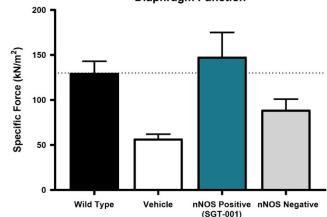
Non-target Tissue



SGT-001 Microdystrophin With nNOS Binding Domain Selected Based On Extensive Comparative Analysis



SGT-001 treatment led to force generation levels comparable to those in wild-type mice



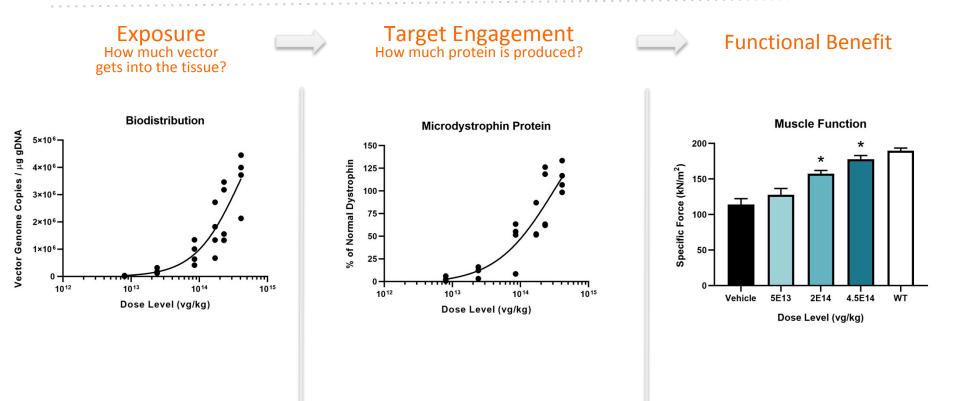
Diaphragm Function

Potential for nNOS related SGT-001 microdystrophin activity: Diminished muscle fatigue and protection against ischemic muscle damage, which can lead to loss of functional muscle

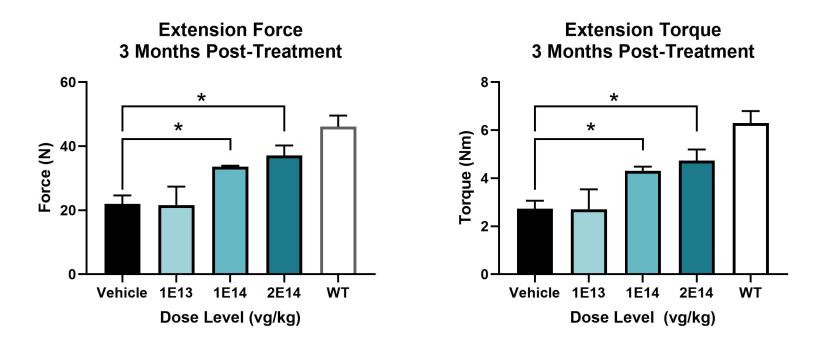
Gastrocnemius cryosections from mdx mice.

Dose Response In Preclinical Studies



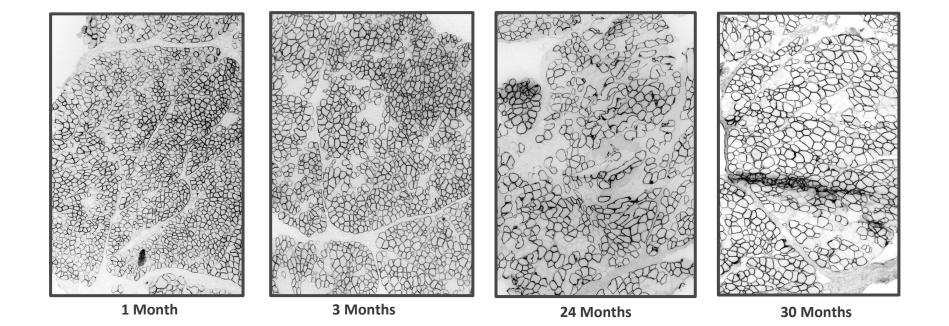


Significant Functional Benefit Demonstrated In Dystrophic Solid Canines



Long-term Durability Observed In Canines







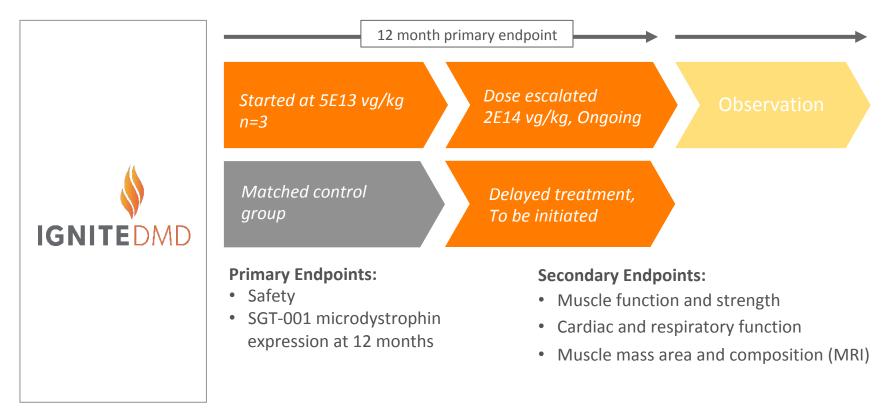
SGT-001 Clinical Program

IGNITE DMD



SGT-001 Phase I/II Clinical Study





Manufacturing

Producing Materials







Solid Manufacturing Strategy

Move quickly with a process that scales up to meet the needs of all patients with DMD

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GMP Manufacturing Process Currently Producing At Significant Volume

25

Liter

2L

Liter

- Successfully scaled up to 250L in suspension and ٠ produced multiple batches
- Each 250L batch can dose multiple patients ٠

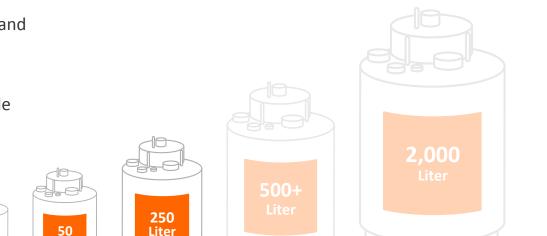
CellSTACK®

Utilizes proven, validated and widely-available ۰ standard bioreactors

HYPERStack®

Successful scale up to 250L suspension complete

Potential to scale up to further increase yield and manufacturing efficiency



Liter



Liter

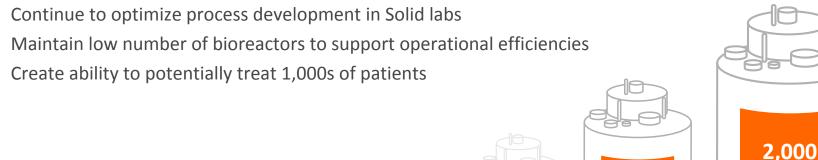
Scaling Process To Efficiently Supply Commercial Markets

Continue to optimize process development in Solid labs ٠

- Maintain low number of bioreactors to support operational efficiencies ٠
- Create ability to potentially treat 1,000s of patients ٠

Potential to scale up to further increase yield and manufacturing efficiency

500+ Liter



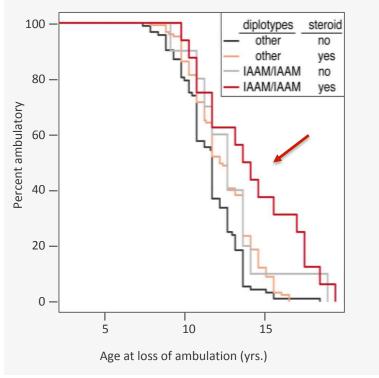


LTBP4 and Next Generation Gene Therapies

Expanding Pipeline

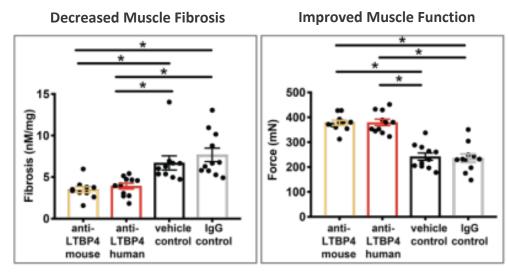






LTBP4 is a powerful genetic modifier in DMD

Positive results from blinded, 24-week efficacy study



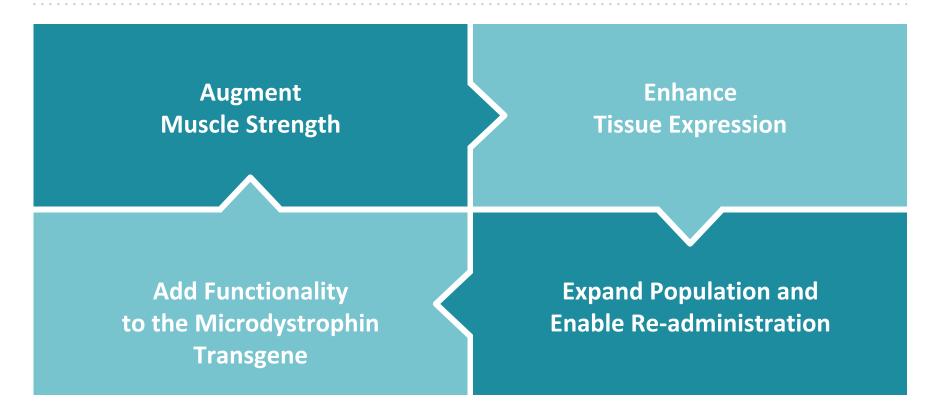
mdx/hLTBP4 mice, dosed weekly x 24 wks

Ikaika Therapeutics

M Northwestern Medicine Feinberg School of Medicine

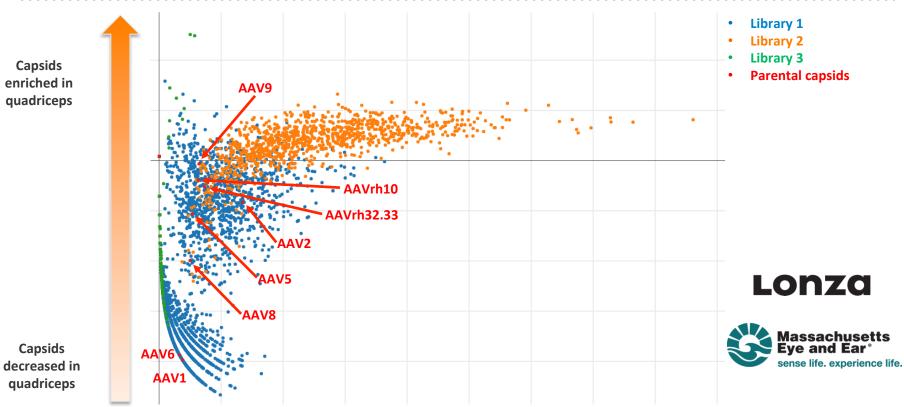


Internal And Partnered Programs To Build Comprehensive Pipeline For Duchenne





Next Generation Screening in Disease-Specific Models Yields Novel Potential AAV Candidates



Continued Progress



SGT-001 Clinical Data

• Data from second dose cohort later this year

Program Advancement

- Manufacturing process development and scale up
- Regulatory discussions to define approval path

Pipeline

- Progress LTBP4 program toward IND
- Advance next generation promoters/vectors
- Support mission with targeted business development