

Leading Mitochondrial Medicine

October 2022

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Key Messages

Late-stage with Strong Platform Potential and Multiple Near-term Inflection Points

- Significant platform potential in common age-related and rare diseases
 - Strategy is to partner common disease programs and own US rare disease opportunities
 - Late-stage programs have been de-risked by clinical learnings and enrichment strategies
- Multiple **near-term value inflection points** with late stage elamipretide development programs
- **Deep pipeline** of novel compounds supports expansion and growth

H1 2023

- **Barth** NDA & partner-ready
- **PMM** P3 enrollment complete
- **Dry AMD** partner-ready
- Friedreich's ataxia IND-ready
- **SBT-272** IND-ready

H2 2023

- **Barth** pending approval
- **PMM** P3 read-out imminent
- **Dry AMD** partnership
- **SBT-272** partner-ready; P2-ready

2024

- **Barth** approval, voucher sale & launch
- **PMM** NDA submission
- Friedreich's ataxia, DMD P2 initiation
- SBT-272 P2 initiation



Unlocking Therapeutic Potential in Mitochondrial Disease

Wholly Owned Clinical Programs Targeting Unmet Need in Ophthalmology, Orphan Diseases and Neurology

Elamipretide Demonstrated Evidence of Clinical Activity

- Dry age-related macular degeneration (AMD) with Geographic Atrophy (GA)
- Primary Mitochondrial Myopathy due to nuclear DNA mutations (nPMM)
- Barth syndrome

Product Candidates Granted Multiple Regulatory Designations

- Fast Track Designation:
 - Elamipretide: dry AMD with GA, nPMM, Barth syndrome
- Orphan Drug Designation:
 - Elamipretide: nPMM, Barth syndrome, Friedreich's ataxia, DMD
 - SBT-272: amyotrophic lateral sclerosis (ALS)
- Rare Pediatric Designation:
 - Elamipretide: Barth syndrome

Anticipated Near-Term Milestones

- Define regulatory path in dry AMD
- Conduct Barth syndrome natural history analyses to inform post-marketing trial design; potential postmarketing trial initiation H1 2023; potential NDA submission H2 2023
- File IND for SBT-272 for ALS (H1 2023)
- Interim data in Friedreich's ataxia P2a trial to inform IND submission H1 2023

Advancing Next-Generation Compounds for CNS Disease

- Phase 1 data for SBT-272 expected YE 2022
- Plan to initiate Phase 2 study of SBT-272 in ALS in 2024
- Progressing SBT-550 series toward pre-IND enabling studies



Prioritizing Mitochondrial Diseases with Significant Unmet Need



Diseases of Aging

Dry AMD Leading cause of blindness in older adults which affects ~2 – 6 million US individuals (inclusive of geographic atrophy and drusen stages) with no currently approved therapies. Seeking partnering opportunities.

Genetic Mito Diseases

nPMM Rare debilitating muscle disorder affecting ~7,000 US individuals with no approved therapies. In Phase 3.

Barth syndrome *Rare cardiomyopathy with less than 250 US individuals diagnosed and no approved therapies. FDA discussions ongoing.*

Friedreich's ataxia Rare neuromuscular, cardiac + vision disorder affecting ~7,000 US individuals with no approved therapies. In Phase 2a.

DMD cardiomyopathy *Rare neuromuscular + cardiac disorder affecting 12,000-15,000 US individuals with no approved therapies for cardiomyopathy. IND submission planned.*

Neurology

ALS Rare fatal neurological disorder affecting ~15,000 US individuals with average survival of 3-5 years post-diagnosis. Currently approved treatments provide only modest effects. Phase 1 complete; IND submission planned.



Mitochondrial Dysfunction Drives Many Diseases

Impaired Bioenergetics and Oxidative Stress Contribute to Many Age-related and Genetic Diseases

- Mitochondria produce ~90% of the energy utilized by mammalian cells
- Mitochondrial dysfunction is a key driver of rare genetic and common age-related diseases with limited treatment options
- Tissues with greatest energy demand, including the retina, heart, skeletal muscle system and brain, are particularly sensitive to mitochondrial dysfunction



- retinal dysfunction
- optic nerve dysfunction
- ophthalmoplegia

Neuromuscular symptoms:

- Muscle weakness
- Exercise intolerance
- Sensory or motor neuropathies

Neurological symptoms:

- Neurodegeneration
- Ataxia
- Parkinsonism

Cardiac symptoms:

- Cardiomyopathy
- Conduction defects
- Fibrosis



Cardiolipin is Essential for Mitochondrial Function

Altered Cardiolipin Metabolism is Associated with a Range of Mitochondrial Disorders

- Cardiolipin is a mitochondria-specific phospholipid and central regulator of mitochondrial architecture and function
- Cardiolipin-mediated mitochondrial membrane curvature is essential for oxidative phosphorylation, the process by which cellular energy is produced
- In dysfunctional mitochondria, excess reactive oxygen species damage cardiolipin, leading to disrupted membrane curvature, impaired bioenergetics and cell death





Mitochondrial membrane in disease state

Elamipretide Mechanism of Action

Elamipretide Binds to Cardiolipin to Restore Mitochondrial Structure and Function

- ROS-mediated damage of cardiolipin disrupts cristae curvature and organization of respiratory complexes, impairing mitochondrial energy production.
- Cardiolipin damage also leads to impaired mitochondrial protein import and dynamics.
- Elamipretide restores mitochondrial structure and function across preclinical disease models.





Wholly Owned Pipeline Targeting Significant Unmet Needs

INDICATION	CANDIDATE	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3
Geographic atrophy (GA) in dry age-related macular degeneration (AMD)	Elamipretide					Define regulatory path
Primary mitochondrial myopathy due to nDNA mutations (nPMM)	Elamipretide					P3 study enrolling
Friedreich's ataxia	Elamipretide				P2a sti (invest	udy enrolled igator sponsored)
Duchenne muscular dystrophy (DMD)	Elamipretide				IND submission plan	ned
Barth Syndrome	Elamipretide				FDA discussions re NDA	submission ongoing
Neurology	SBT-272				Phase 1 data YE 202 ongoing; IND submis	2; toxicology studies sion planned
Neurology	SBT-550 series		Evaluating for Fried	lreich's ataxia, Leigh's sy	indrome	

We aim to progress partnering discussions and pivotal trials in multiple disease indications by early 2023



Elamipretide Shows Evidence of Activity in Multiple Preclinical and Clinical Indications

Elamipretide-mediated restoration of mitochondrial structure and function has been shown to improve signs and symptoms of disease in cardiac, ophthalmic and neuromuscular disease models

Improved mitochondrial morphology observed across disease models



Phase 2 study in Geographic Atrophy

Improved vision and demonstrated proof-of-mechanism; first molecule to improve vision in GA

Phase 3 study in Primary Mitochondrial Myopathy

Improved exercise tolerance in patients with PMM caused by nDNA mutations

Phase 3 study in Barth syndrome

Improved cardiac function, exercise tolerance, and muscle strength compared to natural history



Dry AMD

- Late-stage affects <2m US individuals; with earlier intervention total market size could exceed ~5m US individuals
- No approved therapies but 2 programs targeting late-stage disease are NDA-stage
- Goal is to partner this program based on data showing potential for earlier intervention



Mitochondrial Dysfunction Precedes Clinical Pathology in GA

Implicated in Activation of the Complement Pathway, Photoreceptor Dysfunction and RPE Cell Death

Degenerative changes in retinal pigment endothelium (RPE) mitochondria in AMD vs. non-diseased aged eyes





Photoreceptor Loss as an Approvable Endpoint

The Mitochondrial-Rich Ellipsoid Zone (EZ) is a Proxy for Photoreceptor Health



"Preventing photoreceptor loss...would be considered a clinically meaningful endpoint, given the established link between photoreceptor loss and visual function. The threshold of such a therapeutic effect remains to be established." Wiley Chambers, FDA



Fu et al., J. Lipid Res. (2021) 62 100035. <u>https://doi.org/10.1194/jlr.TR120000618</u>; Csaki et al., Report From the NEI/FDA Endpoints Workshop © 2022 Stealth BioTherapeutics 14 on Age-Related Macular Degeneration and Inherited Retinal Diseases, IOVS 2017

Retinal Mitochondrial Health Predicts Response to Therapy

In Phase 1 ReCLAIM Trial Low Luminance Visual Acuity (LLVA) Changes Correlated with EZ Health





4-letter gain Patient B: NCGA cohort



2-letter gain Patient C: NCGA cohort



Damaged EZ

Healthy EZ

<u>LLVA change</u> inversely correlated with the <u>baseline</u> % macular EZ attenuation (p=0.002)



Design of Phase 2 ReCLAIM-2 Trial in GA

SCREENING	BL	W4	W8	W12	W24	W36	W48	W52: WASHOUT	
NCGA area ≥0.05mm ² / <10.16 mm ²	ELAMIPRETIDE n=117								
≥150 µm from foveal center									
BCVA \geq 55 letters								FOLLOW-UP	
LLVA ≥ 10 letters	PLACEBO n=59								
>5 letters low luminance deficit									

Primary Endpoint Family

- Mean change in low luminance best-corrected visual acuity (LLVA)
- Change in geographic atrophy (GA) area by optical coherence tomography (OCT)

Secondary/Exploratory Endpoints

- Categorical change in LLVA
- Ellipsoid zone (EZ) attenuation and associated biomarkers of retinal and mitochondrial health
- Conversion to choroidal neovascularization (wet AMD)



Phase 2 ReCLAIM-2 Data

Primary Endpoints of Mean Change in LLVA and GA Progression Measured by OCT were Not Significant; LLVA Trend Promising





Least Square (LS) means estimated from a mixed-effects model for repeated measures (MMRM). The mITT population was used for the analysis, for LLVA, placebo n=52 and 48 for 24 and 48 weeks, respectively while elamipretide n=93 and 82, respectively. From GA assessment, placebo n=48 and 45, for 24 and 48 weeks, respectively while elamipretide n=89 and 76, respectively.

Elamipretide Reduced Attenuation of the Mitochondria-Rich EZ

Prespecified Analysis Provides Proof of Mechanism; Offers Patient Enrichment Strategies for Future Studies



Partial EZ Attenuation: thickness of <20 µm on *en face map*



Total EZ Attenuation: thickness of 0 µm on en face map

Least Square (LS) means estimated from a mixed-effects model for repeated measures (MMRM). The mITT population was used for the analysis, for Total Attenuation, placebo n=50 and 42 for 24 and 48 weeks, respectively while elamipretide n=89 and 71, respectively. From Partial Attenuation, placebo n=50 and 42, for 24 and 48 weeks, respectively while elamipretide n=89 and 71, respectively. Statistical analysis showing nominal "p values"

Elamipretide Curtailed Overall Atrophic Progression (EZ + GA)



First Investigational Product Shown to Improve Vision in GA

ReCLAIM-2 Pre-specified Analysis Demonstrated Categorical 2+ Line Improvement in LLVA





The mITT population was used for the analysis, placebo n=48 and elamipretide n=82. *Statistical analysis showing nominal "p values", † prespecified endpoint analysis

ReCLAIM-2 Data Supports and Informs Further Development

Ellipsoid zone (EZ) attenuation precedes and predicts pathologic changes associated with dry AMD progression

Baseline EZ attenuation correlated with change in LLVA (ReCLAIM, ReCLAIM-2) and GA progression (ReCLAIM-2)

Elamipretide-mediated reduction of progressive EZ attenuation (ReCLAIM-2) correlated with improved visual function (ReCLAIM-2), suggesting the value of EZ attenuation as a surrogate endpoint for dry AMD

Supports development of elamipretide as the first agent shown to improve visual function in GA.





Barth syndrome

- Affects <200 US individuals
- No approved therapies
- Potential gateway to other rare metabolic cardiomyopathies
- Rare pediatric designation



Elamipretide Improves Bioenergetics and Organ Function

Rapid Improvement of Mitochondrial Bioenergetics Followed by Long-Term Improvement in Organ Function

HOURS/DAYS	Improved mitochondrial function Ex-vivo in explanted human heart tissue	Elamipretide Improves Mitochondrial Respiration in the Failing Human Heart Stauffer, ESC HF, 2017, Chatfield, JACC Basic Translational Sc, 2019		
DAYS	Restoration of healthy gene expression Cell models	Elamipretide remediates respiratory chain and		
WEEKS	Cardiac/mitochondrial protein turnover Cell models	caused by cardiolipin deficiency Anzmann et al; J Biol Chem. 2021		
WEEKS/MONTHS	Improved cardiac substrate metabolism TAZPOWER P2/3 clinical trial	Elamipretide improves plasma medium chain acylcarnitines in Barth syndrome Oates et al; medRxiv 2020.11.20.20235580		
MONTHS/YEAR	Myocardial remodeling TAZPOWER P2/3 clinical trial	Elamipretide improves cardiac parameters in Barth syndrome Thompson, et al., Genet Med 23, 471–478 (2021)		



Barth Syndrome is a Disease of Cardiolipin Deficiency

Long-term Elamipretide Therapy may Modify Disease Progression

- Barth Syndrome is caused by nuclear gene mutations (TAZ gene) that lead to loss of normal CL, elevations in abnormal MLCL, and mitochondrial respiratory dysfunction
- Elamipretide met the primary and most secondary endpoints in a Phase 3 retrospective natural history control study in Barth Syndrome
- Conducting natural history analyses to inform postmarketing trial design; potential post-marketing trial initiation H1 2023; potential NDA submission H2 2023

Normal cardiolipin (CL)

A "4-legged stool" that creates a wedge-shape facilitating cristae curvature.



Monolysolcardiolipin (MLCL)

A "3-legged stool" that can be embryonic lethal in BTHS, leading to mitochondrial dysfunction and associated disease.



Left Ventricular Stroke Volume (LVSV) Declines in Barth Syndrome

All SPIBA-201 Study Patients were Severely Under-perfused at Baseline; Natural History Predicting Further Declines



Barth Cardiac Natural History

Low BL LVSV for SPIBA-201 Patients Led to Under-Perfusion

Mean SPIBA-201 (n=12) BL cardiac index (CI)	2.3L/min/m ² (~3,300 L/day)
Healthy teenager ²	~4.13L/min/m2 (6,000-7,500 L/day)
Congestive heart failure ²	~2.3L/min/m2
Cardiogenic shock ³	<2.2L/min/m2



Elamipretide Improved LVSV, Reversing Expected Decline

Normalized LV SV for Most Patients with Long-term Therapy Supports Finding of Cardiac Reverse Remodeling



SPIBA-201 3-D Stroke Volume / Baseline BSA (n=8)



All Functional Improvements Maintained After ~4-years of Therapy

SPIBA-201 Part 2 Demonstrated Increasing Improvements Across Multiple Clinical Endpoints



↑ ↓ denotes direction of positive change



6 MWT: 6 Minute Walk Test 5X SST: 5 times Sit to Stand Test BTHS-SA: Barth Syndrome Fatigue Scale CGI: Clinician Global Impression

Elamipretide-Mediated Improvements Not Expected in Natural History

SPIBA-001 Phase 3 Trial Comparing Phase 2 OLE Data to Natural History Controls (NHC) Met Primary and Secondary Endpoints



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*Week 72 analysis conducted post-hoc at FDA request Thompson WR, et al., J Cardiac Failure. October 1, 2020; 26(10);S67. Abstract # 187; Thompson, R., et al, Genet Med. 2020 Oct 2020.

nPMM

- Affects ~7,000 US individuals
- No approved therapies



Mitochondrial DNA Replication is Critical for Normal Muscle Function

nPMM is Caused by Mutations in nDNA-encoded Proteins Responsible for Replicating mtDNA





Elamipretide Improved Exercise Capacity in nPMM

MMPOWER-3 Pre-specified Sub-group Analysis can be Supportive of Registration



Improvements observed in MMPOWER-3 nDNA subgroup

- Phase 3 MMPOWER-3 study enrolled 218 patients with PMM due to mtDNA (~75%) and nDNA (~25%) mutations. Primary endpoints were not met across the full intent-to-treat patient population, which was attributed primarily to heterogeneity of disease presentation across genetic mutations.
- Pre-specified subgroup analysis demonstrated improved 6MWT in nDNA patients (p=0.03; n=59), which can be supportive of registration.
- Exposure-response: Increase in walk distance for subjects with an nDNA mutation was a function of elamipretide drug exposure (p = 0.03)



Phase 3 NuPOWER Trial Enriched for Likely Responders

Post-hoc Analysis of nPMM Patients Meeting NUPOWER Inclusion Criteria Supports Enrichment Strategy



Replisome-related nDNA mutations + PEO 6MWT *n=32*

Enriching Strategy to Predict More Robust Response

- nPMM can affect multiple organ systems. Ensuring a primarily myopathic disease presentation is important to reduce heterogeneity in clinical trial design.
- Patients with a primarily myopathic disease presentation typically experience ocular muscle involvement, characterized by progressive external ophthalmoplegia (PEO). External thought-leaders suggested enriching for this co-morbidity to reduce heterogeneity.
- A post-hoc analysis of the MMPOWER-3 data supports enriching for patients with replisomerelated nPMM who have signs and symptoms of PEO.



Phase 3 NuPOWER Trial in nPMM Currently Recruiting





Friedreich's ataxia

- Affects <7,000 US individuals
- No approved therapies



Friedreich's Ataxia is Caused by nDNA Mutations Affecting Mitochondrial Function

Fully-enrolled Investigator Sponsored Phase 2a Trial to Inform Potential 2023 IND Submission

- Friedreich's ataxia is caused by nuclear gene mutations (FXN gene) that lead to mitochondrial dysfunction
- Patients experience progressive ataxia, cardiomyopathy, and visual dysfunction
- Elamipretide improves frataxin expression and mitochondrial function in patient-derived lymphoblasts and improves motor and cardiac function, frataxin expression and mitochondrial function in frataxin-deficient mice
- Interim data from fully-enrolled Phase 2a investigator sponsored study assessing the effect of elamipretide on visual and cardiac function is expected H1 2023 and will inform IND submission.





DMD Cardiomyopathy

- Affects 12,000-15,000 US individuals
- No approved therapies



DMD is a Mitochondrial Disease

Elamipretide may Address Unmet Need in DMD Cardiomyopathy

- Mitochondrial dysfunction is an early part of the pathological cascade in DMD
- Impaired mitochondrial bioenergetics are observed *before* declines in muscle and cardiac function across species
- We are evaluating the potential of elamipretide to address DMD cardiomyopathy, the leading cause of death in DMD
 - Average age of death for patients with DMD cardiomyopathy is 19.6 years old
- There are no approved therapies for DMD cardiomyopathy

Meyers, Townsend, Int J Mol Sci. 2019; Nigro, Acta Myol. 2012; Payne, R.M., Prog. Pediatr. Cardiol., 2011; Giugliano, GR et al., Tex Heart Inst J, 2007; Machiraju et al., Front Cardiovasc Med 2019.



Potential of Elamipretide to Treat DMD Cardiomyopathy

FDA is Aligned on Proposed Fibrosis Surrogate Endpoint

Fibrosis is associated with poor outcomes in DMD



Cox regression survival analysis shows significant difference in all-cause mortality in DMD patients with and without fibrosis (assessed by late gadolinium enhancement) Elam improves mitochondrial respiration in a dystrophic human heart



Stauffer, unpublished, 2020; Hughes, 2019.

Elam improves fibrosis in non-ischemic cardiomyopathy (HFpEF model)



Red = fibrotic tissue Eirin et al., JAHA 2016

Raucci et al., J Cardiovasc Magn Reson, 2021.



SBT-272 for Neurological Disease

- Amyotrophic lateral sclerosis (ALS) (lead indication) affects ~16,000 US individuals
- Orphan drug designation granted



Mitochondrial Dysfunction Characterizes Neurodegenerative Diseases

Implicated in ALS, Frontotemporal Lobar Dementia (FTD), Parkinson's, Alzheimer's, Huntington's, Among Others

- Mitochondrial dysfunction in neurodegenerative diseases can affect mitochondrial respiration (ATP production), electron transport chain complexes, calcium handling, mitochondrial dynamics (fission and fusion), mitochondrial biogenesis, protein synthesis and apoptotic signaling.
- In ALS, mitochondrial dysfunction may cause motor neuron death by predisposing them to calcium-mediated excitotoxicity, by increasing ROS generation and by initiating the intrinsic apoptotic pathway.

Wang et al., PLOS Genetics, 2019; Manfredi et al., Mitochondrion, 2005; Smith et al., Neuroscience Letters, 2019; Golpich et al., CNS Neuroscience & Ther., 2016.

Mitochondria in Brain Tissue of Patients with TDP-43 Pathology (implicated in ALS, FTD)



Normal

Swollen



SBT-272 is Neuroprotective Across Neurological Disease Models

Consistency of Signal may Suggest Platform-in-product Potential. ALS and FTD are Indications of Interest.

	Mitoprotection	Neuroprotection	Brain metabolism	protein aggregates	↓ motor deficit	↓ inflammation
Amyotrophic lateral sclerosis	TDP-43	TDP-43			SOD-1	
Frontotemporal dementia	\checkmark	\checkmark		\checkmark		
Alpha-synucleinopathy	\checkmark	\checkmark		\checkmark		\checkmark
Huntington's disease*	\checkmark		\checkmark		\checkmark	
Cerebral ischemia reperfusion	\checkmark					



Therapeutic Concentrations in Key Neuronal Regions Implicated in ALS

Monkey PK and Brain biodistribution after 10 days at NOAEL (5 mg/kg)





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SBT-272 Improves Mitochondrial and Neuronal Health in ALS Model

TDP-43 Pathology is Also Implicated in Frontotemporal Dementia (FTD)





SBT-272 Improves Mitochondrial and Neuronal Health in ALS Model

TDP-43 Pathology is Also Implicated in Frontotemporal Dementia (FTD)

SBT-272 Increases Axon Length in TDP-43 Cultured Neurons





SBT-272 Shows Benefit Over Other Approved Therapies

SBT-272 Improves Axonal Length Relative to Edaravone & AMX-0035 in ALS In Vitro Model





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Gautam, Ozdinler et al, submitted 2022

SBT-272 Improves Survival in a Mouse Model of ALS





High copy number SOD1 G93A transgenic with 10 M & 10 F per group Daily IP dosing starting @P56 Weekly neurological scoring Bi-weekly grip strength Bi-weekly blood draws Plasma exposure in females was lower than in males

Phase 1 Dosing Completed; 2023 IND Submission Planned

Chronic Toxicology Studies Ongoing to Inform Potential 2024 P2 Initiation

2022

- Conducted Phase 1 study of single and multiple ascending dose of SBT-272 in healthy volunteers
- Initiated chronic toxicology studies in 2 species
- Orphan drug designation granted by US FDA

2023

2024

• IND submission planned

Planned initiation of Phase 2 clinical trial in patients with ALS



MITO is Leading Mitochondrial Medicine

Clinical Stage Company with Deep Pipeline of Novel Compounds Targeting Genetic and Age-related Diseases

Leading mitochondrial medicine

- Genetic diseases: nPMM (clinical), Barth (clinical), Friedreich's (clinical), Duchenne (pre-IND), ALS (preclinical)
- Age-related diseases: GA (clinical), glaucoma (preclinical)

Significant unmet need

- Genetic diseases: ~7,000 US nPMM, <200 US Barth, ~7,000 Friedrich's, ~12,000 US Duchenne, ~16,000 US ALS
- Age-related diseases:
 ~2m US AMD

First in class therapies

- Fast track: nPMM, Barth, LHON, GA
- Orphan drug: nPMM, Barth, FRDA, LHON
- Rare pediatric designation: Barth
- No US approved therapies

Multi-asset platform

- Pipeline-in-a-product
- 100+ pipeline compounds
- Mito targeting platform
- >600 patents issued + pending

Experienced team

- >10 decades drug development experience
- Dedicated to improving the lives of patients

Near-term milestones may drive significant value inflection.



