

Leading the Discovery of Allosteric Binding Sites to Create New Medicines

Corporate Presentation March 2021

Forward-Looking Statement

Forward-Looking Statements

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Market data and industry information used throughout this presentation are based on management's knowledge of the industry and the good faith estimates of management. We also relied, to the extent available, upon management's review of independent industry surveys and publications and other publicly available information prepared by a number of third party sources. All of the market data and industry information used in this presentation involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. Although we believe that these sources are reliable, we cannot guarantee the accuracy or completeness of this information, and we have not independently verified this information. While we believe the estimated market position, market opportunity and market size information included in this presentation are generally reliable, such information, which is derived in part from management's estimates and beliefs, is inherently uncertain and imprecise. No representations or warranties are made by the Company or any of its affiliates as to the accuracy of any such statements or projections, assumptions and estimates of our future performance and the future performance of the industry in which we operate are necessarily subject to a high degree of uncertainty and risk due to a variety of factors, including those described above. These and other factors could cause results to differ materially from those expressed in our estimates and beliefs and in the estimates prepared by independent parties.



Executive Summary

	Therapeutic Focus	 Addressing Protein Misfolding by identifying and targeting novel previously undruggable allosteric binding sites Initial focus on lysosomal storage and CNS diseases large & growing markets with unmet medical need
茶	Platform Technology	 Proprietary and patented SEE-Tx platform identifies allosteric (non-catalytic) binding sites in proteins and enzymes that can regulate proper protein folding to restore functional activity
	Robust Pipeline	 Demonstrated targeted engagement Strong intellectual property estate-5 new NCE families patented
	Global Partnerships	 Strong relations with academic centers, key patient associations, and development partners Industrial partnership established with Sumitomo and potential to establish additional partnerships
\sim	Team	 Seasoned and experienced management team, board of directors and scientific advisors
副	Upcoming Milestones	 Near term milestones: several development candidates currently completing animal POC IND enabling studies starting 2021



Gain Therapeutics' Dual-pronged Approach to Value Generation

Gain leverages its proprietary platform technology to engineer novel therapeutics targeting conditions with significant unmet needs

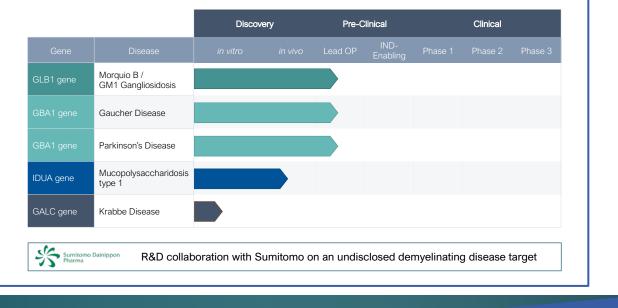
IDENTIFY

SEE-Tx Discovery Platform

- Proprietary supercomputer-driven drug discovery platform
- Identifies novel allosteric binding sites on misfolded proteins
- Enables targeting of novel allosteric binding sites and generation of proprietary molecules efficiently and quickly

Diversified Pipeline of Drug Candidates targeting multi-billion \$ markets

- Pipeline candidates translated from SEE-Tx platform to preclinical development
- Primarily targeting lysosomal storage disorders and generic neurodegenerative disorder, including:
 - Morquio B/ GM1 Gangliosidosis
 - Gaucher Disease
 - Parkinson's Disease
- Opportunity to expand into other indications addressing protein misfolding



SCREEN & SELECT

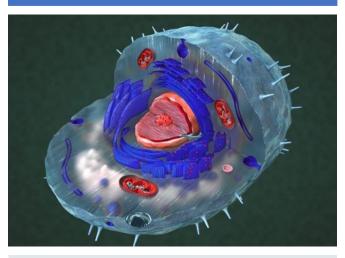


OPTIMI7F

Key Markets: Broad Platform Applicability

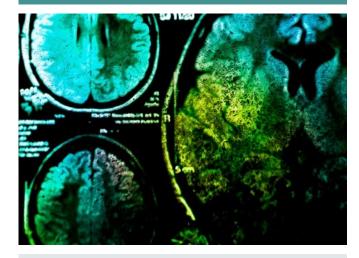
SOC Challenges: Inability to access hard to reach tissues

Lysosomal Storage Disorders



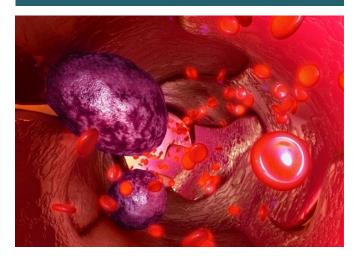
LSDs represent significant markets with high unmet needs, especially in neurological conditions

Neurodegeneration



A multi billion-dollar market with high unmet needs in a growing patient population

Future Applications

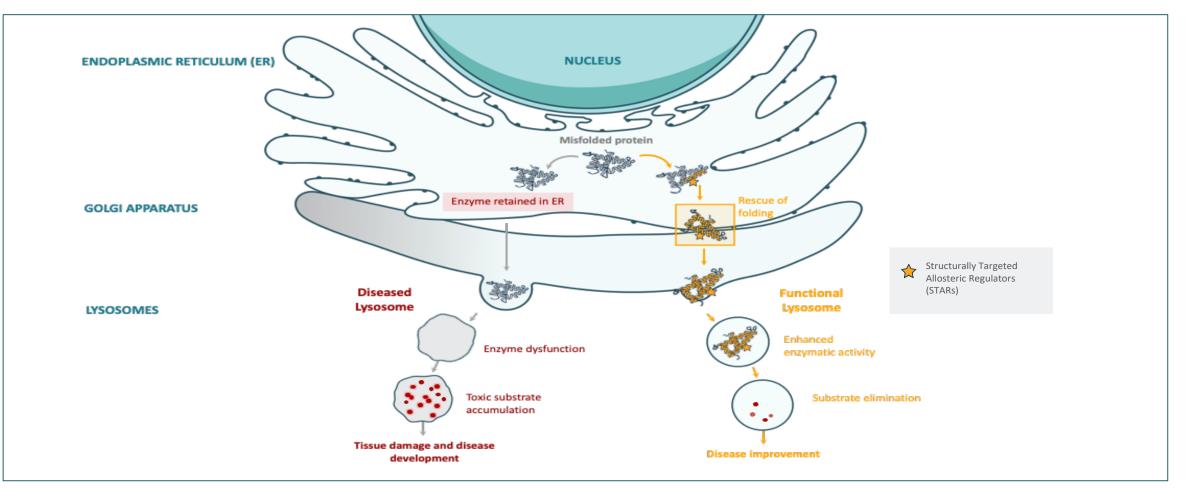


Oncology, Mitochondrial Diseases, Immunology, Metabolic Disorders



Corrected Folding of Enzymes to Restore Functional Activity

Misfolded enzymes cannot properly catalyze their intended substrates, leading to toxic substrate accumulation.



Binding allosteric sites has the potential to provide superior regulation of misfolded enzymes implicated in diseases.



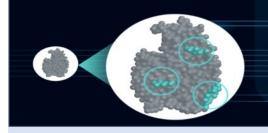
SEE-Tx[™] Discovery Platform

DIFFERENTIATED and PATENTED highly-specific, efficient and cost-effective drug discovery approach

DEFECTIVE PROTEIN

Caused by genetic mutation, ageing, and disease. Results in loss of protein function and toxic substrate buildup.

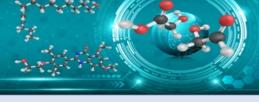
IDENTIFY



Using the 3D structure of proteins and supercomputing technology, SEE-Tx **identifies** novel druggable binding hotspots



Utilizing proprietary supercomputer driven **screening** methodology, SEE-Tx filters up to 10 million compounds to **select** a pool of candidates that may bind to the novel druggable hotspots OPTIMIZE



Gain **optimizes** this pool of small molecules to identify and develop proprietary STARs that stabilize misfolded proteins and to restore their biological activity



DEVELOPMENT CANDIDATE

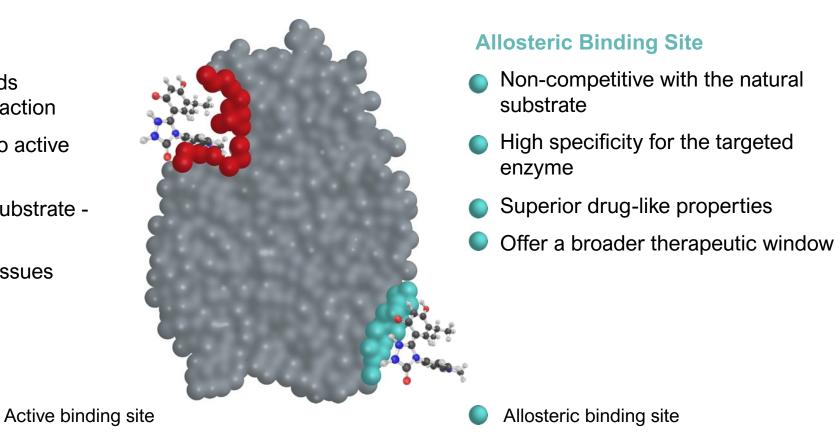
Stabilizes protein enzyme, restores enzyme function, reduces substrate buildup, crosses the blood brain barrier, and penetrates other hard to reach tissues such as bone and cartilage.



Advantages of Drugging Allosteric Binding Sites

Active Binding Site

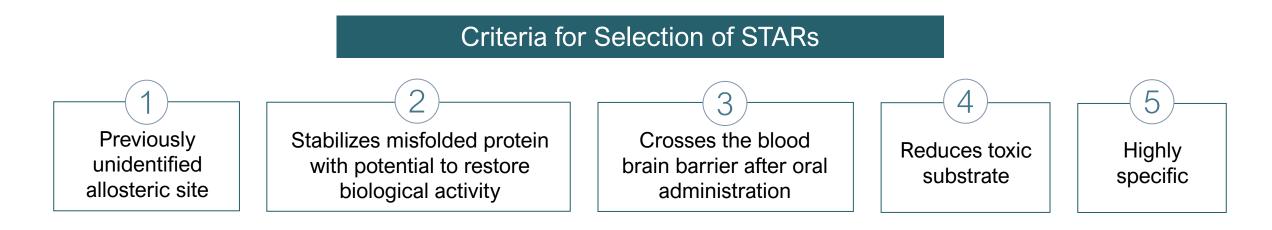
- Site where enzyme binds substrate to catalyze reaction
- Traditional drugs bind to active sites
- Competes with active substrate decreases efficacy
- May lead to selectivity issues



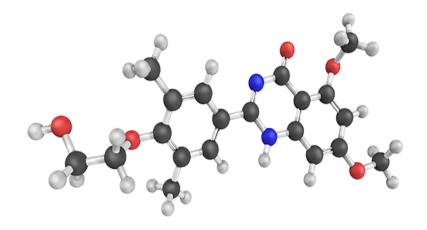
Binding allosteric sites has the potential to provide superior regulation of misfolded enzymes implicated in diseases.



SEE-Tx[™] Platform Produces Novel STARs



- STARs: Novel small molecule compounds selected to bind to allosteric sites and restore protein function, cross blood-brain barrier and access bone, cartilage and other hard to reach tissues
- Easily scalable small molecules with potential oral bioavailability
- Improved pharmacokinetic (PK) profile with better safety profile and therapeutic window
- No interaction with the target enzyme's active site and ability to stimulate wild-type enzyme activity





Diversified Pipeline Targeting Multi-Billion Dollar Markets

		Discov	/ery	Pre-C	linical	Clinical			
Gene	Disease	in vitro	in vivo	Lead OP	IND- Enabling	Phase 1	Phase 2	Phase 3	
GLB1 gene	Morquio B / GM1 Gangliosidosis								
GBA1 gene	Gaucher Disease								
GBA1 gene	Parkinson's Disease								
IDUA gene	Mucopolysaccharidosis type 1								
GALC gene	Krabbe Disease								



R&D collaboration with Sumitomo on an undisclosed demyelinating disease target





The Programs

GM1 Gangliosidosis/Morquio B Beta-galactosidase (GLB1)

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GLB1-related Disorders: GM1 and Morquio B

Deficiency of acid β -galactosidase causes GM1 gangliosidosis and Morquio disease type B (MPS IVB)



GM1 Gangliosidosis

- Indidence worldwide (1:100,000-200,000 newborns).¹
- β-galactosidase is responsible for breaking down GM1-ganglioside, abundance of ganglioside results in neurodegeneration and severe neurological conditions.
- Symptoms include developmental regression, skeletal abnormalities, loss of vision, and seizures.



Morquio B

- Prevalence worldwide (1:250,000-1,000,000).²
- It is caused by genetic mutation of GLB1 gene that eliminates activity of βgalactosidase leading to accumulation of keratan sulphate in organs and tissues.
- Symptoms include loss of nerve function, abnormal bone and spine development, and hearing loss.

Life-long chronic treatment targeting over 7000 patients

Peak sales: > \$1 billion

Currently, no effective medical treatment for GLB1-related disorders.

Symptomatic treatment for some neurologic sequelae but does not alter the clinical course.



GM1/Morquio B Program Summary: Lead Candidate GT-00513

Small (400 Da) molecule with good drug-like properties



Mechanism of Action

- Dose-dependent binding of β-gal
- Non-competitive activity
- Support proper folding and protein maturation

in vitro Target Engagement

- Enzyme stabilization and enzymatic enhancement in fibroblasts
- Clearance of toxic substrate in fibroblasts

Intellectual Property (IP)

PCT application published July 2018 National phases 2019

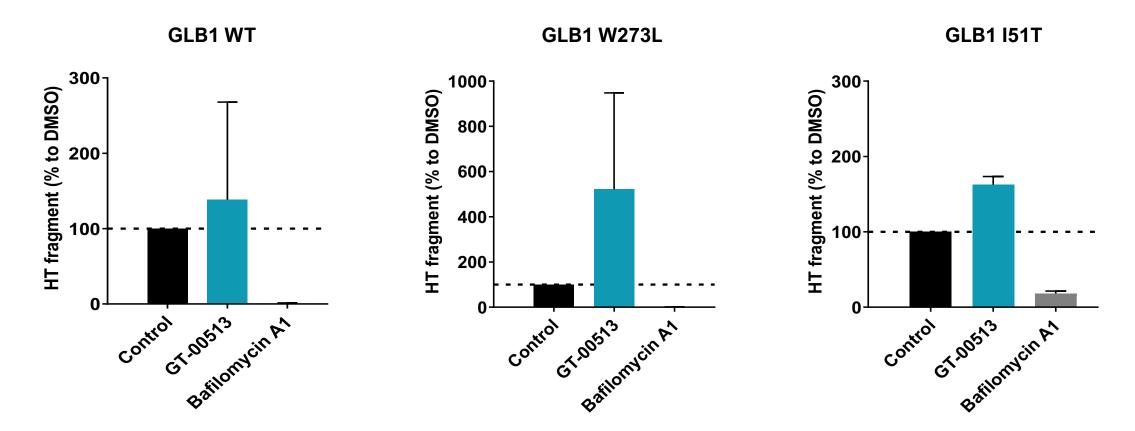




Drug Properties

- High oral bioavailability
- Penetrates well into Brain (CNS) and bone (skeletal)
- Half-life suitable for once daily use
- Well-tolerated in multiple dose (subchronic) toxicity studies

GT-00513: Increases the Delivery of β-Gal to the Lysosome



HEK293 were transfected with either GLB1 WT, GLB1 I51T, GLB1 R201C and GLB1 W273L with HaloTag. 30 hours later, compounds (25 µM) and a fluorescent Halo ligand that covalently binds to a pocket in the tag were added for 17 hours. Once the protein reaches the lysosome, the tag is cleaved off. The 31 KDa tag is resistant to lysosomal hydrolases and it can be detected as a fluorescent fragment that corresponds to the protein that reached the lysosomes. Full length protein and lysosomal fragment are measured by western blot.

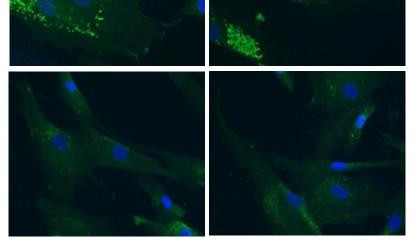


GT-00513: Reduces GM1 Ganglioside Accumulation

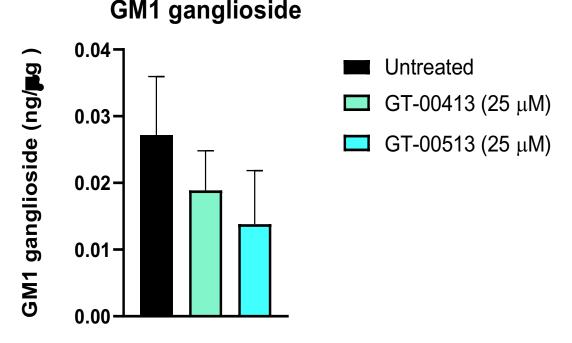
GLB1 fibroblasts accumulate GM1 ganglioside

STAR^s are effective in reducing substrate accumulation

GM1 ganglioside



GM1 gangliosidosis canine fibroblasts (p.R60H/p.R60H; equivalent to R59H mutation in humans) were loaded with GM1 ganglioside for 2 days followed by culture in the presence of GT-00413 at 25 μ M for 4 subsequent days. The cells were fixed, permeabilized and stained to detect GM1 ganglioside. Nuclei were counterstained with DAPI.



p.R60H/p.R60H canine fibroblasts (Coriell GM11473) were treated with 25 μ M of GT-00513 in triplicates. Cells were harvested at day 4 and samples were analysed for GM1 ganglioside quantification using MS/MS. Data is expressed as mean ± SD (*n*=1, preliminary results).



GT-00513: Demonstrates High Oral Bioavailability

	Route	Dose (mg/ kg)	Test System	Tmax (hr)	aCo/Cmax (ng/mL)	AUClast (hr*ng/mL)	AUCinf (hr*ng/mL)	T1/2 (hr)	CL (mL/min/kg)	Vss (L/kg)	% Fb
GT-00513	IV	2	male C57BL/6 mice	-	1181.29	1195.16	1314.68	4.39	25.35	6.12	-
GT-00513	PO	10	male C57BL/6 mice	0.5	1140.21	4548.73	4711.51				76

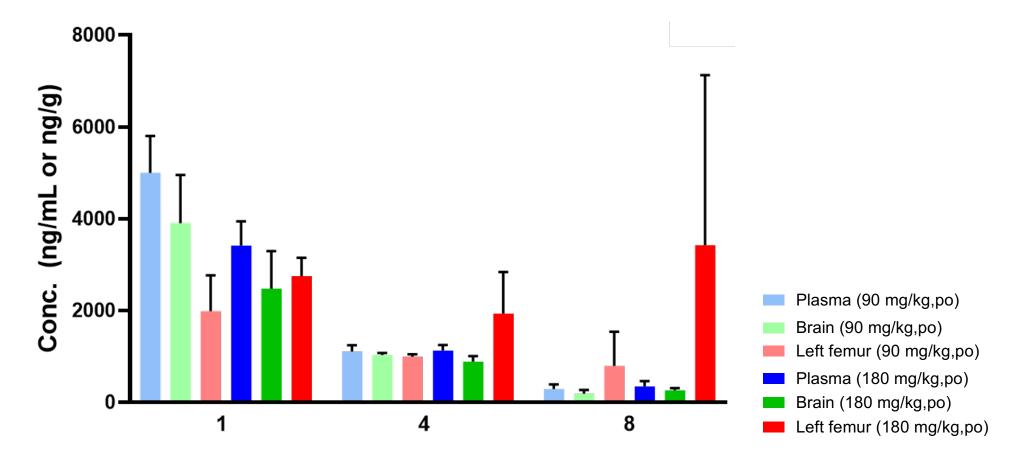
Plasma exposure Brain exposure 10000 1000 GT-00513, IV, 2 mg/kg, Brain GT-00513, IV, 2 mg/kg, Plasma GT-00513, PO, 10 mg/kg, Brain GT-00513, PO, 10 mg/kg, Plasma Plasma Concentration (ng/mL) Brain Concentration (ng/g) 1000 100 100 10 10 10 12 10 12 Time (hr) Time (hr)

Brain-to-plasma ratio ranged 0.42-0.72

Plasma pharmacokinetics of GT-00513.HCl following a single intravenous and oral administration to male C57BL/6 mice. n=3 and data are expressed as mean \pm SD. GT-00513.HCl salt oral bioavailability, F = 76%.



GT-00513: Penetrates well into both Brain and Bone



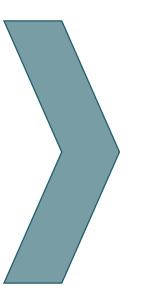
Time (h)

Plasma, brain and left femur concentration-time data of GT-0513 in male C57BL/6 mice on day 7



Lead Candidate GT-0513

- Demonstration of mechanism of action indicative of specific binding and bypassing protein quality control of protein misfolding
- Demonstration of *in vitro of* target engagement as measured by βgalactosidase enhancement and toxic GM1 gangliosides depletion
- Orally bioavailable, brain and bone penetrant



Upcoming milestones

- In vivo POCs (Morquio B + GM1) (2021)
- CD Characterization/Synthesis scale-up (2021)
- IND/CTA-enabling studies (2021-2022)
- Phase 1/2: SAD/MAD (safety/PK) in pediatric population (2023-2024)





The Programs

Gaucher/Parkinson's Disease Beta-glucosidase (GBA)

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GBA1 Related Disease: Gaucher and Parkinson's Disease

Mutations in the GBA1 gene are responsible for build-up of glucosylceramide in Gaucher disease and is associated with α-synuclein accumulation in Parkinson's.



Gaucher Disease

- There are approximately 1,000-2,000 patients with Neuronopathic (Type 2 and 3) Gaucher's Disease in the US and Europe. (1:100,000 newborns).¹
- Mutations in the GBA gene cause deficiency in glucocerebrosidase enzyme, resulting in glucosylceramide build up in the liver, spleen, bone marrow and nervous system
- Characterized by severe neurological symptoms such as abnormal eye movements, seizures, and brain damage.



Parkinson's Disease

- Parkinson's Disease affects 10 million people worldwide. Approximately 500,000 with Parkinson's have a GBA1 mutation. (5% of all Parkinson's Patients)²
- GBA mutations result in early onset, faster progression, and various non-motor symptoms due to accumulation of α-synuclein.
- Symptoms include uncontrollable shaking/tremors, slowed movement, and stiffness in limbs.

Life-long chronic treatment targeting over 7000 patients

Peak sales: > \$900 million

Disease modifying treatment targeting over 2.4m patients

Peak sales: > \$5 billion

Currently, no effective medical treatment for GBA1-related disorders. Symptomatic treatment for some neurologic sequelae but does not alter the clinical course.



GBA Program: Lead Candidates GT-02287 and GT-02329

GT02287 and GT02329 are small molecules of 350-450 Da with good drug-like properties

Mechanism of Action



- Dose-dependent and non-competitive binding to GCase
- Stabilization of target enzyme, support proper folding and protein maturation

in vitro Target Engagement

- Enzymatic enhancement in patient cells in the sub-micromolar range
- Enzymatic enhancement in dopaminergic neurons
- Neuroprotection in a cellular model
- Clearance of phosphorylated and aggregated synuclein in neuronal cell models
- Clearance of glucosylceramide and glucosylsphingosine in cells

in vivo Target Engagement

- In vivo GCase enzyme enhancement
- Synuclein depletion, neuroprotection etc.
- In vivo locomotor improvement in rotenone animal model

Drug Properties

- Oral bioavailability
- Brain penetration
- Well tolerated in acute and sub-chronic toxicity studies
- Non cytotoxic & non mutagenic

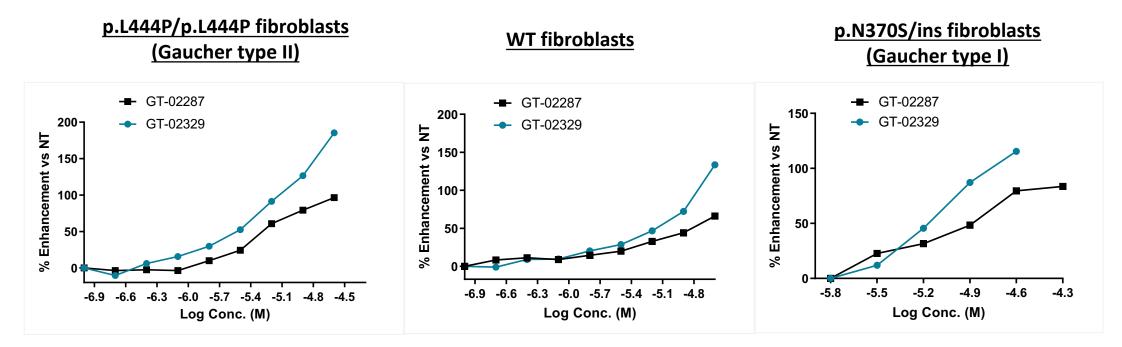
Intellectual Property (IP)

PCT application published July 2018 National phases 2019, Add. PCT files Nov. 2021



STAR^s Enhance GCase at Sub-Micromolar Concentrations

GT compounds enhance GCase activity in a dose-dependent manner

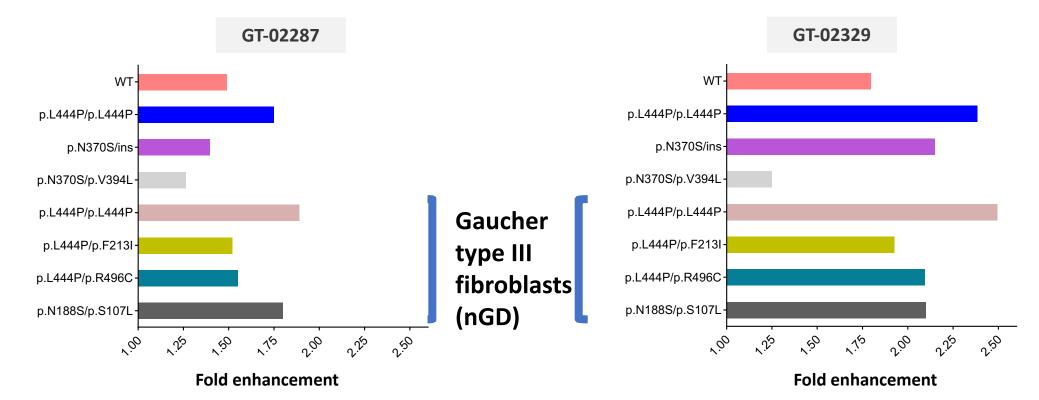


Gaucher-patient fibroblasts were treated with compounds at different concentrations ($0.2 - 25 \mu M$) in sextuplicate. After a 4-day treatment, GCase activity was assessed using the 4-MU- β -D-glucopyranoside substrate. Fold increase compared with non-treated cells was calculated.



STAR^s Enhance Enzyme Activity in Patient Fibroblasts

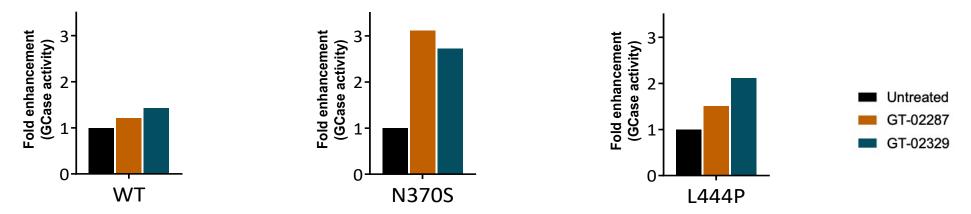
GT compounds enhance GCase activity in wild-type and patient-derived Gaucher fibroblasts



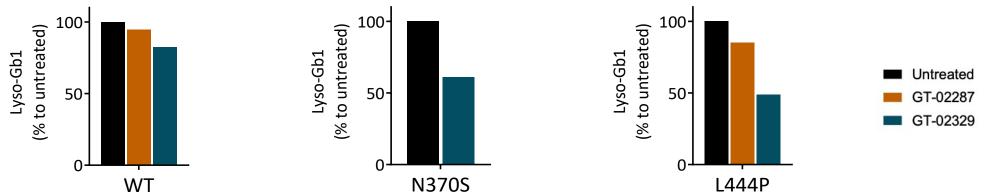
Gaucher patient-fibroblasts, WT fibroblasts were treated with GT compounds, isofagomine at 12.5 μ M. After 4-day treatment, GCase activity was assessed using 4-MU- β -D-glucopyranoside substrate. The assay reaction is started by the addition of 28 μ L of 5 mM of 4-MU-beta-D-glucopyranoside in 0.1 M acetate buffer (pH 4) to each well. Plates are incubated at 37°C for 1h and the reaction is stopped by the addition of 200 μ L of glycine buffer (pH 10.7) to each well. Liberated 4-methylumbelliferone is measured (excitation 340 nm, emission 460 nm). Fold increase compared with non-treated cells was calculated.



In a Neuronal Cellular Model STAR^s increase GCase activity of wild-type as well as GCase carrying the most prevalent mutations (top) and Reduce Glucosylsphingosine Levels (bottom)



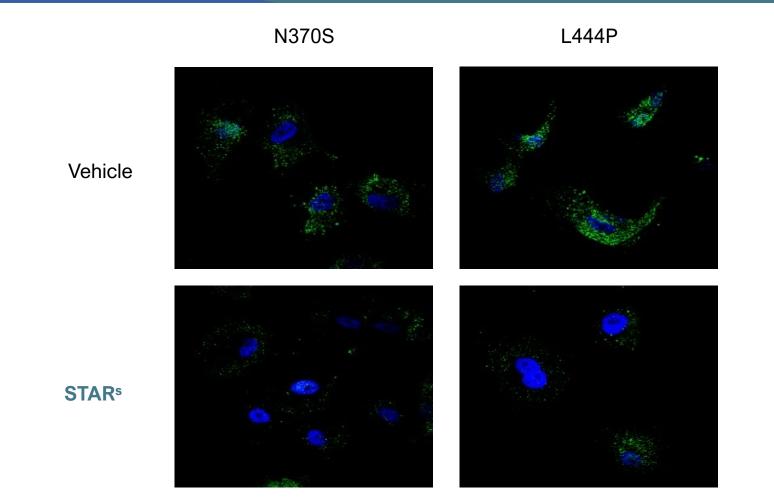
Dopaminergic neurons BE(2)-M17 carrying either wild-type or mutant N370S, L444P or D409V GBA1 mutations were treated for 4 days with 25 μ M of GT-compounds. GCase activity was measured with 4-methylumbelliferyl- β -D-glucopyranoside. For the 10 days incubation experiment, media exchange with compound is performed after 3 days, then after 4 days and finally cells are harvested after 3 additional days.



Dopaminergic neurons BE(2)-M17 carrying either wild-type or mutant N370S, L444P or D409V GBA1 mutations were treated for 10 days with 25 µM of GT-02287 or GT-02329 compounds. Media exchange with compound was performed after 3 days, then after 4 days and finally cells are harvested after 3 additional days. GlcSph (Lyso-Gb1) levels were quantified by LC-MS/MS.



STAR^s Decrease α-Synuclein Levels in a Neuronal Cell Model

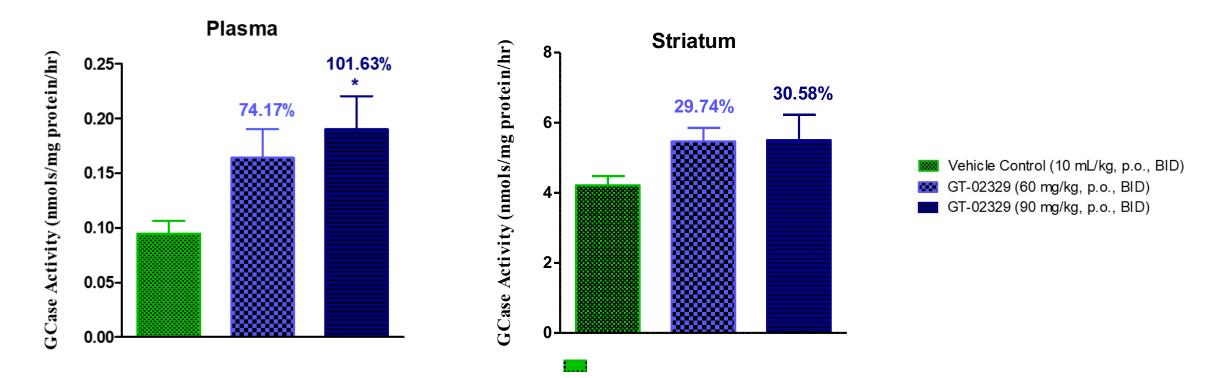


Hoechst Phosphorylated-α-synuclein (S129)

Decrease in syn levels. Phosphorylated–synuclein (S129) detected by immunofluorescence in 3 differentiated neuronal cell lines (WT, N370S and L444P) treated for 15 days with 25 µM of the selected GT-1 chaperone. Between 30 and 40 individual cells for each condition were quantified (mean intensity in cytosol area). Results are presented as mean ± S.E.M. value.



STAR^s Enhance WT GCase Activity in Plasma and Striatum



Statistical analysis was performed using GraphPad Prism software version 5.0. and used One way ANOVA followed by Dunnett's post-hoc test; All the values are expressed as Mean ± SEM. *P<0.05 Vs Vehicle control GT-02329 was deministered orally, twice a day, for 12 days. Samples were collected 1 hr after the last administration. N=10 per group



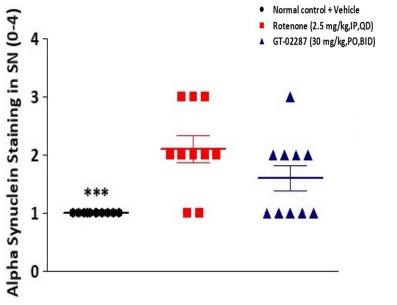
STAR^s Show Depletion of alpha-Synuclein, Increase in Tyrosine Hydroxylase and Improvement in Locomotor Activity and Markers in a Rotenone Rat Model

alpha-Synuclein Depletion

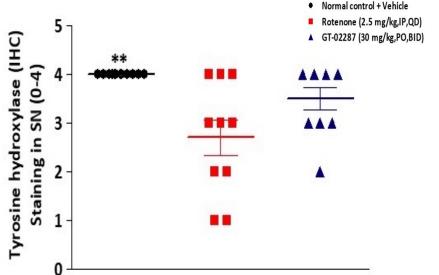
Dopaminergic Neurons Activity Improvement

Improvement in Locomotor Activity

Alpha Synuclein (IHC)



Data is shown as Mean ± S.E.M.(n=10), Ove-way ANOVA followed by Dunnett's Multiple Comparison test, *Significant difference as compared to Rotenone ***P<0.0001, Vs Vehicle control. GT-02287 was administered orally, twice a day, for 7 days.



Data is shown as Mean ± S.E.M.(n=10), Ove-way ANOVA followed by Dunnett's Multiple Comparison test, *Significant difference as compared to Rotenone ***P<0.0001, Vs Vehicle control. GT-02287 was administered orally, twice a day, for 7 days

Data is shown as Mean \pm S.E.M.(n=10). Unpaired T test. Significant difference as compared to Rotenone control *P < 0.05 P<0.05 Vs Vehicle control. GT-02287 was administered orally, twice a day, for 7 days.

Tyrosine hydroxylase (IHC)

Locomotor activity: All Maze Video Tracking system

30 min

Distance Travelled (Metre) in

25

20

15

10

5

0

Norma control + Vehicle

Rotenone (2.5 mg/kg, IP, QD)

GT-02287 (30 mg/kg, PO,BID)



Gaucher and Parkinson's Disease Program Summary

Lead Candidates

- Demonstration of mechanism of action indicative of specific binding and bypassing protein quality control of protein misfolding
- Demonstration of *in vitro of* target engagement as measured by enzyme enhancement and toxic substrates depletion
- Demonstration of *in* vivo target engagement as measured of GCase enhancement, toxic αsynuclein, glucosylceramide and glucosylsphingosine depletion, increase od dopaminergic neurons viability marker, decrease of locomotor deficits
- Orally bioavailable, brain penetrant

Upcoming milestones

- Gaucher and Parkinson animal models POC (2021)
- CD Characterization/Synthesis scale-up (2021)
- IND/CTA-enabling studies (2021-2022)
- GD: Phase 1/2: SAD/MAD (safety/PK) in pediatric population (2023-2024)
- PD: Phase 1: SAD/MAD (safety/PK) 60 healthy volunteers (2022 2023)





Program to bring forward Mucopolysaccharidosis Type I (MPS I) alpha-L-iduronidase (IDUA)

IDUA Related Disorders: Mucopolysaccharidosis Type I (MPS I)

Mucopolysaccharidosis type I (MPS I) is an autosomal recessive inherited disorder of metabolism where large sugar molecules glycosaminoglycans (GAGs) cannot be adequately degraded



Mucopolysaccharidosis Type I

- Annually, there are approximately 1,400 patients with MPS I worldwide (1:100,000).¹
- Mutations in the IDUA gene cause deficiency in the enzyme alpha-L-iduronidase, resulting in GAG build up within cells and lysosomes
- Symptoms include enlarged tonsils and/or adenoids, coarse facial features, abnormal curvature of the spine enlargement of the liver and spleen, compression of the spinal cord, and progressive neurological decline
- Disease progression poses a significant burden to patients and majority of progressive symptoms occur in hard-to-treat tissues such as bone and cartilage – areas Gain's STAR molecules can penetrate.

Current treatments are enzyme replacement therapy and stem cell transplant. Significant unmet medical are related to hard-to-treat tissues such bone and cartilage



MPS-I Program Summary

Status

Animal PoC

Druggable allosteric site identified

Test compound displays:

- Stabilization and prevention of enzyme denaturation in physiological conditions
- Enzymatic enhancement of ERT
- In vivo stabilization of recombinant IDUA (laronidase) including prolonged exposure in bone tissue and cartilage. Allows laronidase (Biomarin/Sanofi's drug) to reach good exposure levels in bone tissue and cartilage (makes it effective in those tissues)

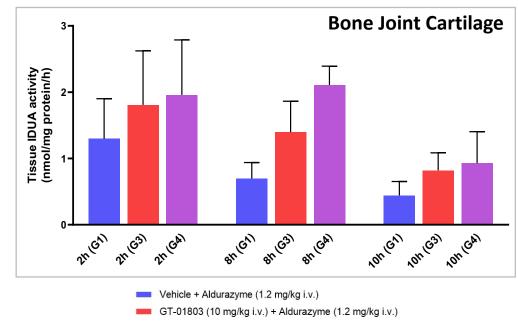
Intellectual Property (IP)

- PCT Patent filed (Feb. 2021)

Next Steps

Industry Collaboration

- *in vitro* efficacy study (2021)



GT-01803 (20 mg/kg i.v.) + Aldurazyme (1.2 mg/kg i.v.)



Academic and Development Partners





Patent Estate

Patent	Status						
Technology Platform Patent:	 WO2013092922 (Published June 2013) National Phases granted 						
GLB1 Program:	 WO2018122746A1 (Published July 2018) National Phases filed 						
GBA1 Program:	 WO2018122775 (Published July 2018) National Phases filed PCT application filed (to be published May 2021) 						
GALC Program:	PCT application filed (to be published May 2021)						
IDUA Program:	 Provisional patent (Filed February 2020) PCT application to be filed (February 2021) 						



Use of Proceeds and Upcoming Milestones

2021

MorquioB / GM1 Gangliosidosis: Animal POCs – completion (Q3), IND-enabling studies – initiation (Q4) Gaucher / Parkinson's Disease: Animal POC – completion (Q3), IND-enabling studies – initiation (Q4) Krabbe: Lead Optimization & Characterization

Morquio B / GM1 Gangliosidosis: IND filing

Gaucher / Parkinson's Disease: IND filing

Krabbe: Animal Proof of Concept



2022

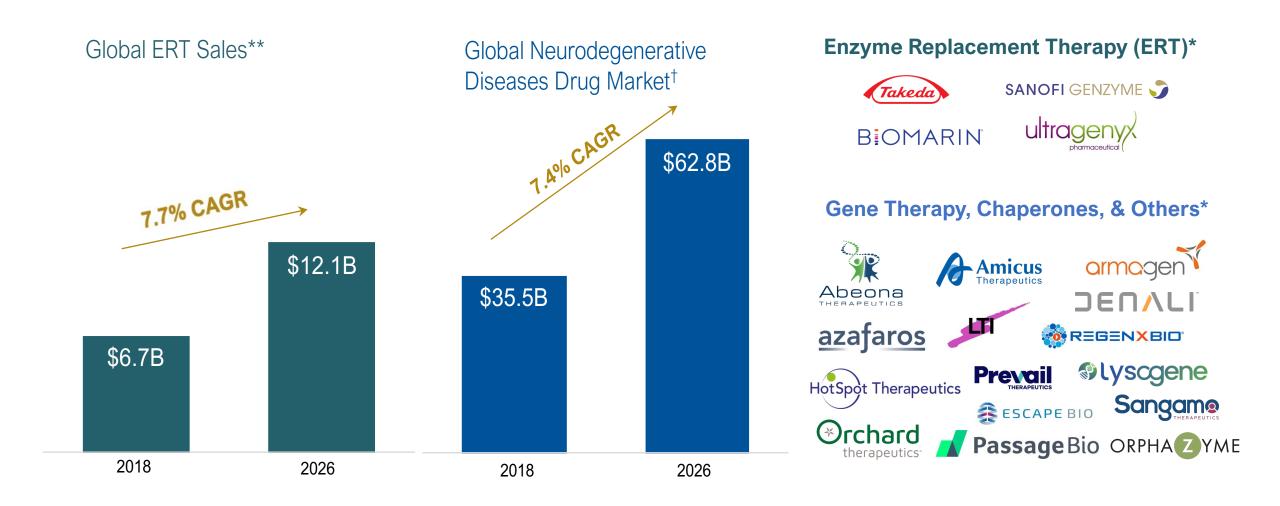
Morquio B / GM1 Gangliosidosis: Start of clinical studies

Gaucher / Parkinson's Disease: Start of clinical studies

Krabbe: IND filing



Diversified Pipeline Targeting Multi-Billion Dollar Markets





Data provided by S&P CapIQ and Company Websites as of October 22, 2020 Grandview Market Research Report, Published Oct, 2019. "Enzyme Replacement Therapy Market Size, Share & Trends Analysis By Enzyme (Pancreatic Enzymes, Agalsidase Beta), By Therapeutic Condition (Gaucher, Fabry, Pompe, MPS), By Route of Administration, By End Use, And Segment Forecasts, 2019 – 2026" www.fortunebusinessinsights.com/industry-reports/neurodegenerative-diseases-drugs-market-100661; 2026 is estimated

Financing History and Stakeholders





Strong Board of Directors

(>\$30B in transactions)





Experienced Management Team

Extensive biotech and pharma experience (>\$3B transactions)





Diverse Group of Scientific Advisors





Executive Summary

	Therapeutic Focus	 Addressing Protein Misfolding by identifying and targeting novel previously undruggable allosteric binding sites Initial focus on lysosomal storage and CNS diseases large & growing markets with unmet medical need
茶	Platform Technology	 Proprietary and patented SEE-Tx platform identifies allosteric (non-catalytic) binding sites in proteins and enzymes that can regulate proper protein folding to restore functional activity
Ş	Robust Pipeline	 Demonstrated targeted engagement Strong intellectual property estate-5 new NCE families patented
	Global Partnerships	 Strong relations with academic centers, key patient associations, and development partners Industrial partnership established with Sumitomo and potential to establish additional partnerships
\sim	Team	 Seasoned and experienced management team, board of directors and scientific advisors
	Upcoming Milestones	 Near term milestones: several development candidates currently completing animal POC IND enabling studies starting 2021

