

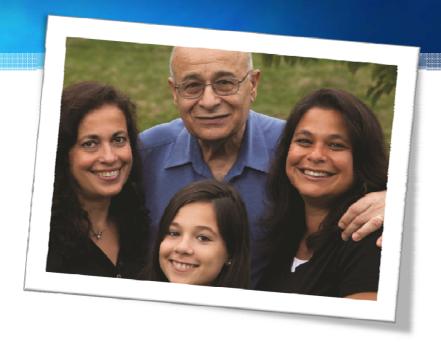
Safe Harbor

This presentation contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995 relating to business, operations and financial conditions of Amicus including but not limited to preclinical and clinical development of Amicus' candidate drug products, the timing and reporting of results from clinical trials evaluating Amicus' candidate drug products. Words such as, but not limited to, "look forward to," "believe," "expect," "anticipate," "estimate," "intend," "plan," "would," "should" and "could," and similar expressions or words, identify forward-looking statements. Although Amicus believes the expectations reflected in such forward-looking statements are based upon reasonable assumptions, there can be no assurance that its expectations will be realized. Actual results could differ materially from those projected in Amicus' forward-looking statements due to numerous known and unknown risks and uncertainties, including the "Risk Factors" described in our Annual Report on Form 10-K for the year ended December 31, 2012. All forward-looking statements are qualified in their entirety by this cautionary statement, and Amicus undertakes no obligation to revise or update this presentation to reflect events or circumstances after the date hereof.



Company Mission

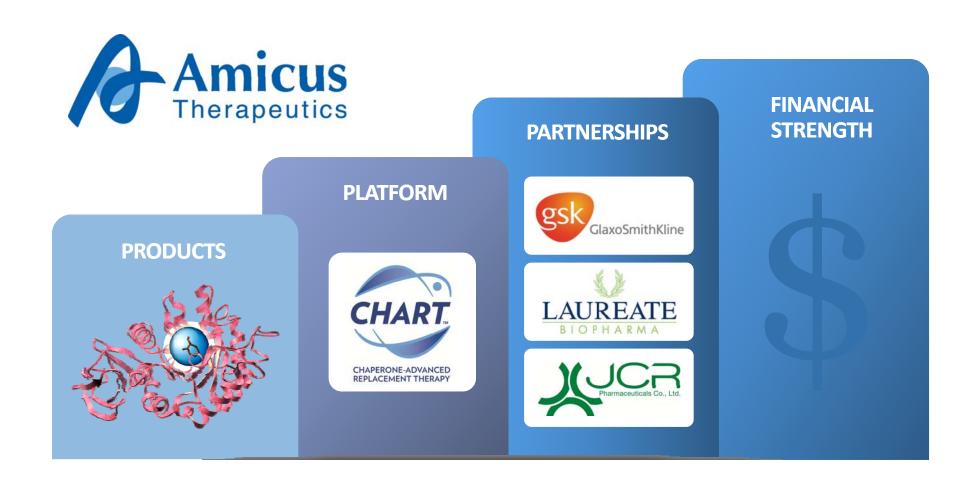




Amicus Therapeutics is a biopharmaceutical company at the forefront of developing next-generation medicines to treat a range of rare and orphan diseases, with a focus on improved therapies for Lysosomal Storage Disorders

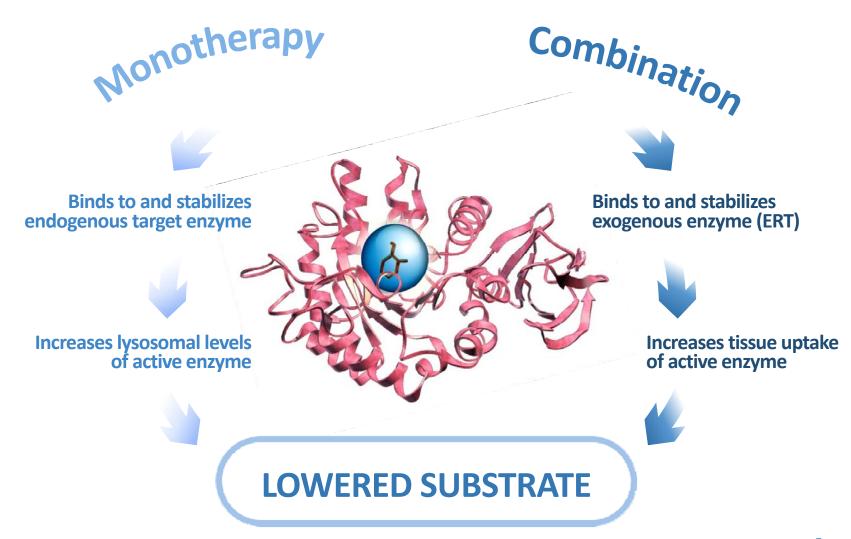


2013 Investment Highlights





Core Technology and Focus: Potential to Transform LSD Treatments





CHART™:

<u>Chaperone-Advanced</u> <u>Replacement Therapy</u>



CO-ADMINISTRATION (Chaperones + Marketed ERTs)

NEXT-GENERATION ERTs (IV Co-formulated Chaperones + Proprietary Enzymes)

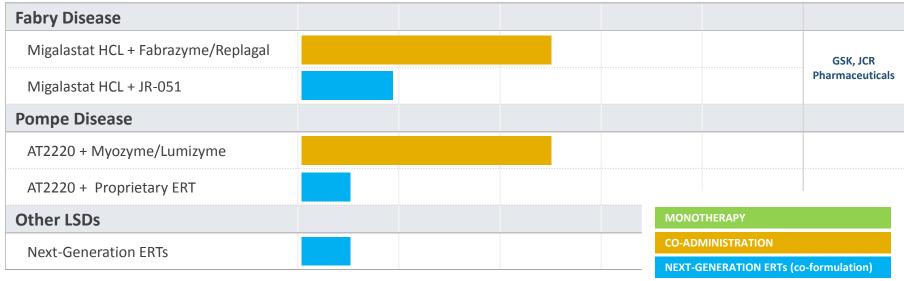
CHAPERONE-ADVANCED REPLACEMENT THERAPY

NEXT-GENERATION ERTs WITH IMPROVED DELIVERY REGIMEN



Advanced Product Pipeline

INDICATION	PRE- CLINICAL	PHASE 1	PHASE 2	PHASE 3	MARKETING APPLICATION	PARTNER
Fabry Disease						
Migalastat HCL						GSK
Parkinson's						
AT3375						Michael J. Fox Foundation







Fabry Disease Overview

Fatal, Progressive, Multi-System Lysosomal Storage Disease



X-linked

Renal failure, cardiac failure, stroke

5-10K diagnosed WW (51% female/49% male¹)

 Recent neonatal screening results suggest prevalence of late onset form in 1:3000 or more^{2,3}

FY12 ERT sales of \$873M WW

\$195M US (Fabrazyme conditional approval)

 \$678M ex-US (Fabrazyme and Replagal full approval)

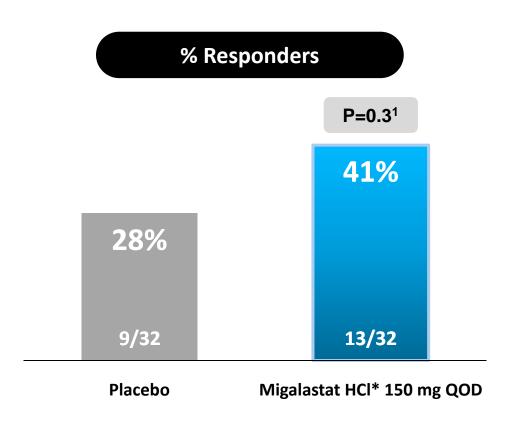
Presence of antibodies
 [against α-Gal A] may reflect
 worse treatment outcome⁴



Kidnev

Phase 3 Study 011: Top-Line Stage 1 (6-Month) Results

Primary Endpoint - Responder Analysis (ITT): ≥ 50% Reduction from Baseline in Kidney Interstitial Capillary GL-3



^{*} migalastat is not authorized for use and is an investigational product

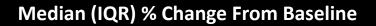


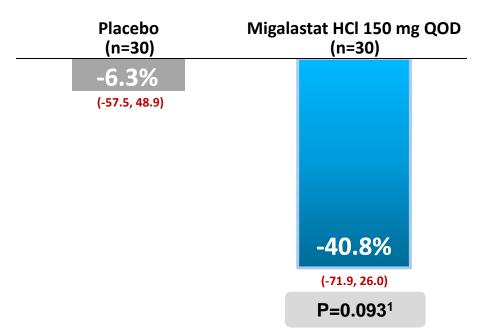
Difference=12.5% (95% CI: -13.4, 37.3). Migalastat HCl minus placebo in % responders. P-value based on exact Cochran-Mantel-Haenszel test stratified by gender. Subjects with baseline biopsy but missing month 6 biopsy counted as a failure.

Phase 3 Study 011: Top-Line 6-Month Results

Secondary Analysis of Primary Endpoint (mITT*)

Median Percent Change From Baseline in Kidney Interstitial Capillary GL-3





^{*} mITT: Subjects who had a baseline and at least one on-therapy assessment. Median baseline average number of inclusions per capillary (0.23 placebo, 0.18 Migalastat HCI)



¹ p-value from ANCOVA based on ranked observations adjusting for baseline and sex

Phase 3 Study 011: 6-Month Safety

Most Common Treatment Emergent Adverse Events (≥ 10% of Subjects)

Adverse event	Placebo (n=33)	Migalastat HCl (n=34)
Any Event	91%	91%
Headache	21%	35%
Fatigue	12%	12%
Nausea	12%	9%
Nasopharyngitis	15%	6%
Paresthesia	9%	12%

No serious adverse events deemed by investigators to be treatment-related No withdrawals due to adverse events



Phase 3 Study 011: Status and Milestones

1H 2013

2H 2013

12-Month Treatment Extension & Long-Term Open-Label Extension*

Stage 2: (12-month) data 3Q13

- Pre-specified descriptive comparisons
- 12-month data from migalastat HCl group
- 6-month data from placebo crossover group

FDA Meeting Anticipated 2H13

- 6-month analysis is Stage 1 data
- FDA to consider entirety of Study 011 (Stage 1+2) data for NDA submission
- No single endpoint will be determinative



Phase 3 Study 012

Ongoing 18-Month Open-Label Study Comparing Migalastat HCl (150 mg QOD) to ERT (Fabrazyme and Replagal) in Fabry Patients with Amenable Mutations*

THE ATTRACT STUDY

AT1001 Therapy Compared to Enzyme Replacement in Fabry Patients with AT1001-responsive Mutations: a Global Clinical Trial



- Switch to migalastat HCl or remain on ERT
- 60 total patients (1.5:1 randomization)
- No kidney biopsies
- Clinical outcome is renal function (lohexol GFR)
- Data anticipated 2H14





Chaperone-ERT Combination Platform

for Lysosomal Storage Diseases



LSD Products Today



Potential Limitations

- **Enzyme Instability** in Blood & Infusion Bag
- **Dosing Limitations & Duration of Infusion**
- **Poor Enzyme Uptake** into Tissues
- **Immunogenicity**



CHART™: Ch

<u>Chaperone-Advanced</u> <u>Replacement Therapy</u>

CHART Offers Multiple Potential Ways to Improve ERT Outcomes for Patients



Proposed MOA:

Bind to and Stabilize Enzyme, Keeping Properly Folded **Increase Active Enzyme** in Circulation

Increase Enzyme Uptake into Tissues

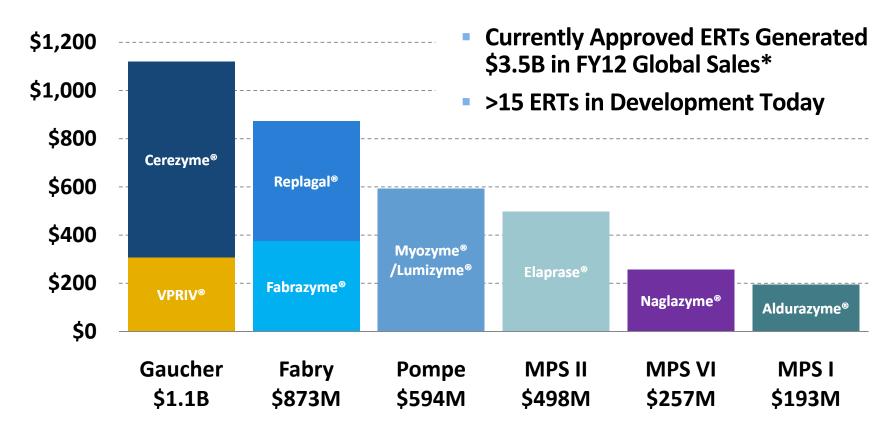
Mitigate Immune Response

Improve Dosing/Delivery



\$3.5B Current ERT Market for LSDs

FY12 Global Sales (\$M)

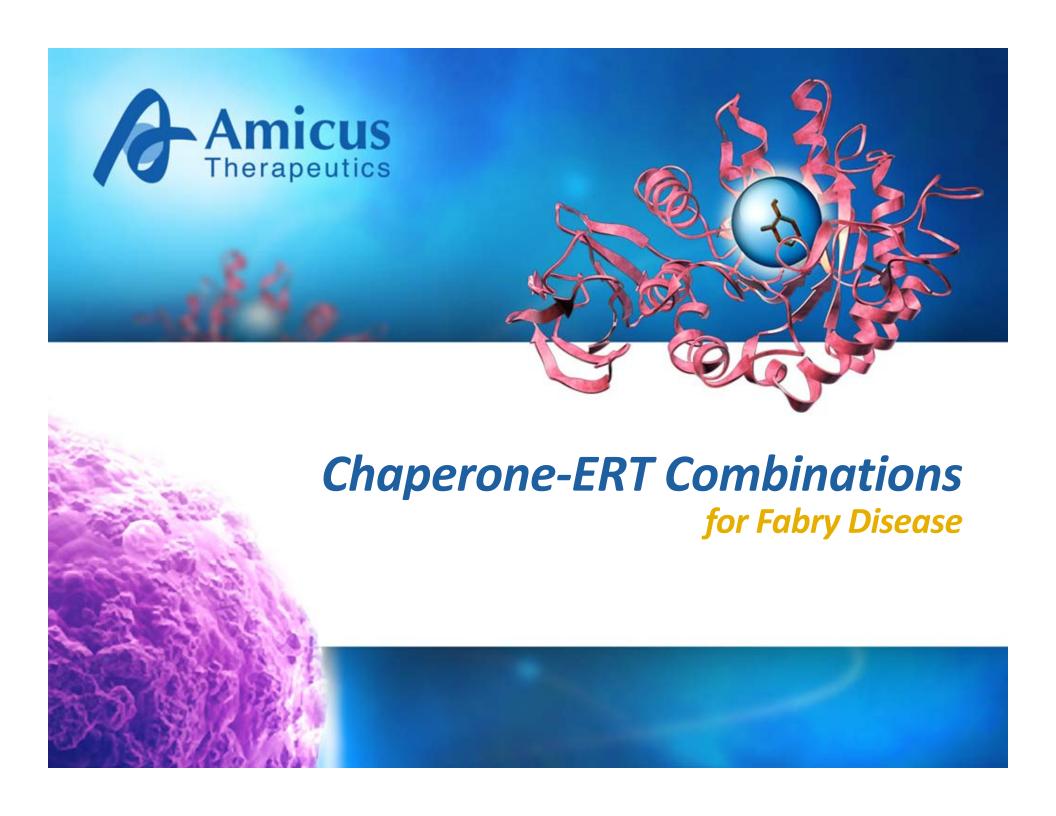


^{*}Source: 10-Ks from Shire, Sanofi, and BioMarin. Sales of Elelyso for Gaucher disease not shown.

Fabrazyme, Cerezyme, Myzoyme and Lumizyme are registered trademarks owned by Sanofi-Aventis. VPRIV, Replagal and Elaprase are registered trademarks owned by Shire.

Naglazyme and Aldurazyme are registered trademark owned by BioMarin





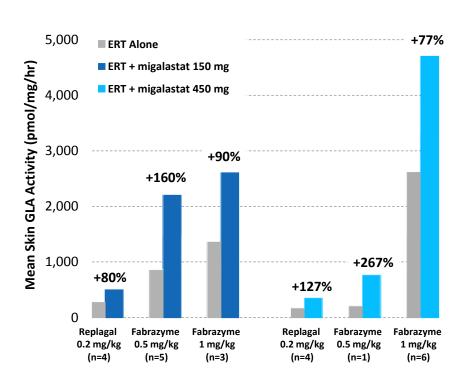
Fabry Co-Administration: Phase 2 Study 013

Oral Migalastat HCl¹ Co-Administered with Fabrazyme or Replagal Led to Consistent Increases in Active Plasma Enzyme Levels and Tissue Uptake²

Plasma rhGLA Activity (Area Under Curve)

Fabrazyme 1 mg/kg 12,000 Fabrazyme 0.5 mg/kg 10,000 +100% Replagal 0.2 mg/kg Plasma AUC rhGLA Activity (hr*nmol/hr/mL) 8,000 6,000 4,000 +190% 2,000 +340% **ERT Alone** ERT + 150mg Migalastat Fabrazyme 1 mg/kg 20,000 abrazyme 0.5 mg/kg 15,000 Replagal 0.2 mg/kg 10,000 5,000 0 **ERT Alone** ERT + 450 mg Migalastat

Mean Skin GLA Activity (Day 2)



¹ Single oral dose 2 hours prior to ERT infusion; ² Bichet, et al., A Phase 2a Study to Investigate the Effect of a Single Dose of Migalastat HCl, a Pharmacological Chaperone, on Agalsidase Activity in Subjects with Fabry Disease, LDN WORLD 2013.

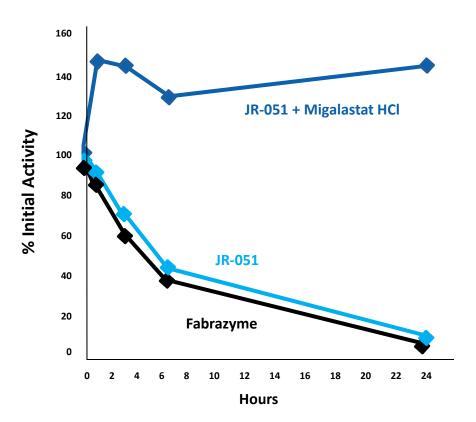


Fabry Co-Formulation: Proprietary ERT JR-051* + Migalastat HCl

(Preliminary Results)

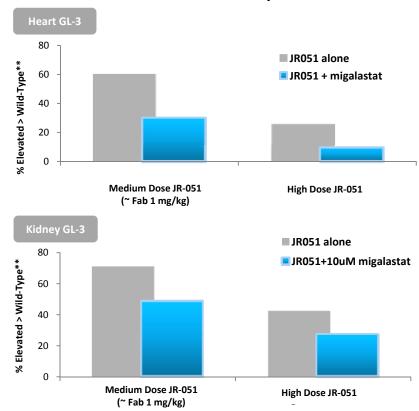
Stabilization of JR-051 ex vivo

Migalastat HCl Prevents Loss of Enzyme Activity in Blood



JR-051 +/- Migalastat HCl in GLA Knock-Out Mice (Repeat-Dose IV Administration)

Co-Formulation Results in Significantly Greater GL-3 Reduction than Previously Observed



^{*}JR-051 designed to be biosimilar to Fabrazyme; **0 = wild-type, 100 = untreated KO mouse



Fabry Co-Formulation

Advancing JR-051 + Migalastat HCl Toward Clinic

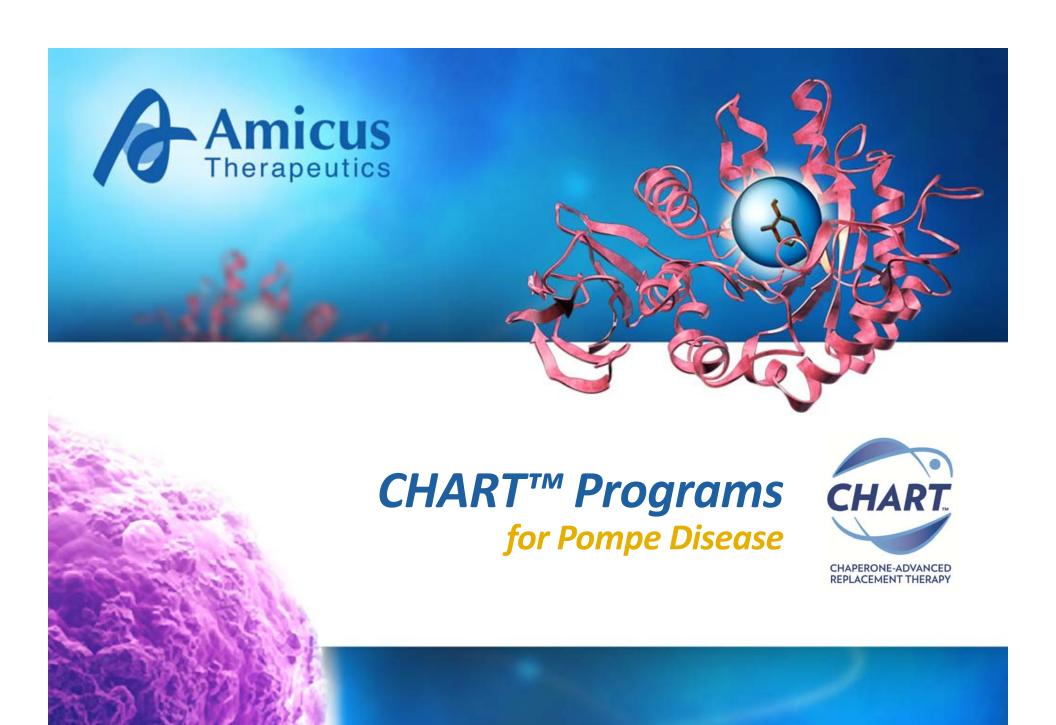






- Now manufacturing at 2,000 L scale
- IND-enabling studies underway
- IND submission planned 4Q13 for potential entry into clinic in early 2014





Pompe Disease Overview

Severe, Fatal Neuromuscular Disease



Glycogen accumulation

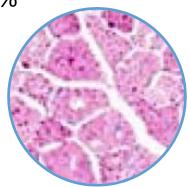
First and only approved ERTs (recombinant GAA):
 Myozyme/Lumizyme (\$594M in FY12 sales)

Standard infusion every-other-week

Infusion-associated reactions in ~50% of late-onset patients¹

 Attenuated therapeutic response in infantile Pompe patients with high sustained antibody titer²

 High antibody titer shown to affect treatment in adults³



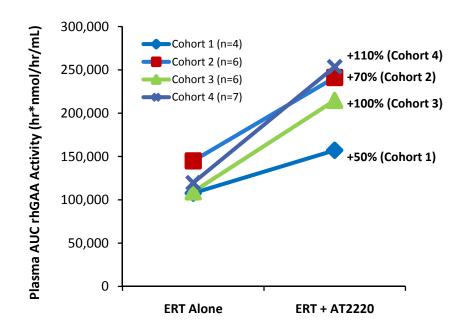
Elevated Glycogen in Muscle



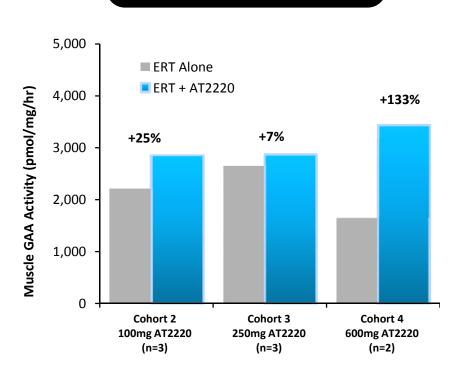
Pompe Co-Administration: Phase 2 Study 010

Oral AT2220 Co-Administered with Myozyme/Lumizyme Also Leads to Consistent Increases in Plasma Enzyme Activity and Tissue Uptake¹

Plasma AUC rhGAA Activity



Muscle GAA Activity (Day 3)*



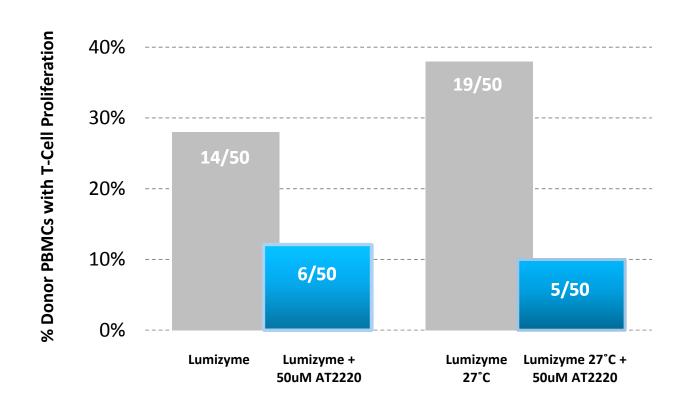
1Kishnani, et al., A Phase 2a Study to Investigate Drug-Drug Interactions between Escalating Doses of AT2220 (Duvoglustat Hydrochloride) and Acid Alfa-Glucosidase in Subjects with Pompe Disease, LDN WORLD 2013 *Cohort 1 (AT2220 50 mg) muscle GAA activity not shown; 50 mg dose did not demonstrate meaningful change in tissue uptake (muscle)



Pompe Co-Administration: Potential to Mitigate ERT Immunogenicity

AT2220 Mitigates Human T-Cell Response Induced by Lumizyme ex vivo and May Significantly Reduce Immunogenicity of Lumizyme

T-Cell Proliferation in PBMCs from 50 Healthy Volunteers

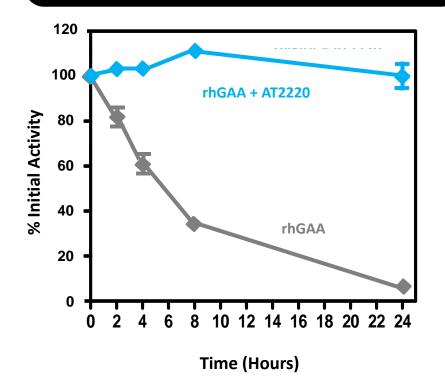




Pompe Co-Formulation: AT2220 + Myozyme/Lumizyme (rhGAA)¹

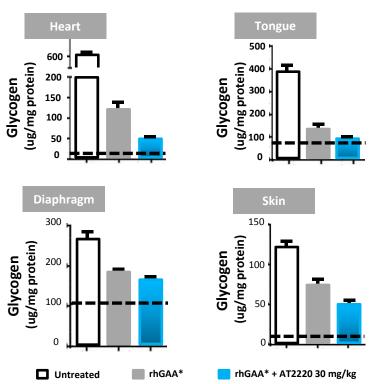
AT2220 Prevents Loss of Enzyme Activity in Blood and Co-Formulation Results in Significantly Greater Glycogen Reduction

Stabilization of rhGAA ex vivo



rhGAA +/- AT2220 in GAA Knock-Out Mice

Repeat-Dose IV Administration







Next-Generation Pompe ERT: AT2220 + Proprietary rhGAA Enzyme

Leveraging CHART Platform with Internal Biologics Capabilities to Develop Next-Generation ERT

Proprietary rhGAA Enzyme

Potential Improvements

AT2220 Small Molecule Stabilizer

- Optimized glycosylation
- De-immunization
- Increased exposure and tissue uptake
- Reduced immunogenicity
- SubQ delivery

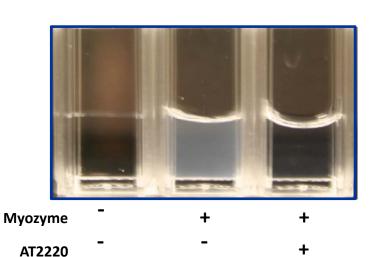


Next-Generation Pompe ERT

SubQ Delivery Potential

Increased ERT Stability and Prevention of Aggregation

Increased Circulating Levels of Active rhGAA in Rats



Aggregation assessed after 4 weeks at 37°C

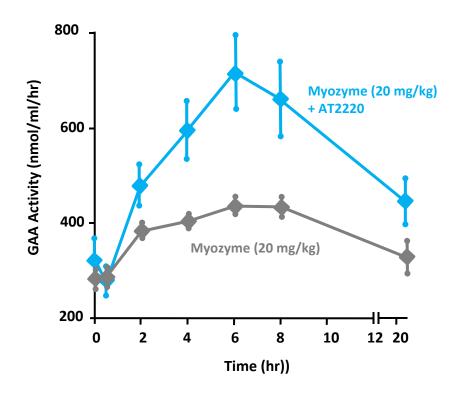




CHART Pathways for Pompe Disease

Co-Administration (AT2220-IV + Marketed ERTs) Repeat-dose clinical study expected to begin 3Q13

Next-Generation ERT (AT2220 + Proprietary rhGAA Enzyme) Preclinical studies underway



2013 Anticipated Clinical Milestones

Building Shareholder Value

Migalastat HCl Monotherapy for Fabry Disease

Study 011 6-Month data at LDN WORLD	Feb 2013
Top-line Study 011 12-month data	3Q 2013
FDA meeting to discuss U.S. approval pathway	2H 2013

Pompe Co-Administration

Phase 2 Study 010 data at LDN WORLD	Feb 2013
Initiation of repeat-dose clinical study	3Q 2013

Fabry Co-Formulation (Migalastat HCl+JR-051)

IND Submission	4Q 2013
Entry into Clinic	1Q 2014



