

Cowen and Company
33rd Annual Health Care Conference

John F. Crowley
Chairman & CEO

At the Forefront of Therapies for Rare and Orphan Diseases™

March 4, 2013

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 Quarterly Report on Form 10-Q for the quarter ended June 30, 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



PRODUCTS





FINANCIAL STRENGTH

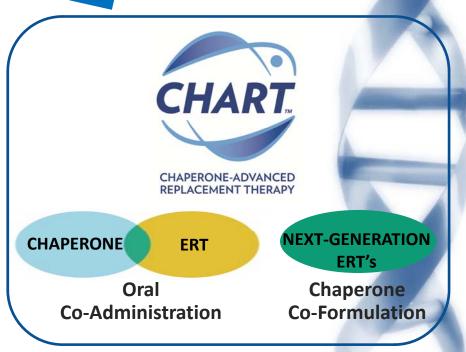
Core Technology and Focus



Potential to Transform LSD Treatments

Small Molecule Pharmacological Chaperones

ORAL CHAPERONE MONOTHERAPY



Chaperone-Advanced Replacement Therapy





CO-ADMINISTRATION
(ORAL CHAPERONES +
MARKETED ERTs)

NEXT-GENERATION ERTS
(IV CO-FORMULATED
CHAPERONES + PROPRIETARY
ENZYMES)

NEXT-GENERATION ERTS
WITH IMPROVED
DELIVERY REGIMEN

Advanced Product Pipeline



	Preclinical	Phase 1	Phase 2	Phase 3	Marketing Application
FABRY DISEASE	MIGALASTAT HCL				
PARKINSON'S DE MICHAEL FOR FOUNDATION TOR MARINION'S RESEARCH	Parkinson's AT3375				
FABRY DISEASE	MIGALASTAT HCL + FABRAZYME/REPLAGAL MIGALASTAT HCL + JR-051				
POMPE DISEASE	AT2220 + Myozyme/Lumizyme AT2220 + Proprietary ERT				
GAUCHER DISEASE	AT2101/AT3375 + ERT		Monotherapy Co-Administration		
Other LSDs					eneration ERTs mulation)



PHARMACOLOGICAL CHAPERONES

MONOTHERAPY DEVELOPMENT IN FABRY DISEASE

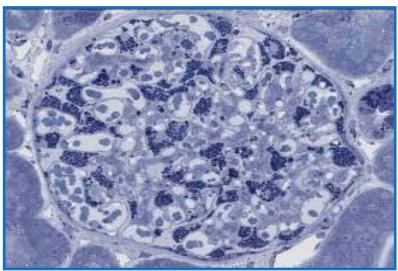


Fabry Disease Overview



- Fatal, progressive, multi-system lysosomal storage disease
- Inherited GLA mutations
- X-linked
- Renal failure, cardiac failure, stroke
- 5-10K diagnosed WW (51% female/49% male*)
- 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 outcome¹



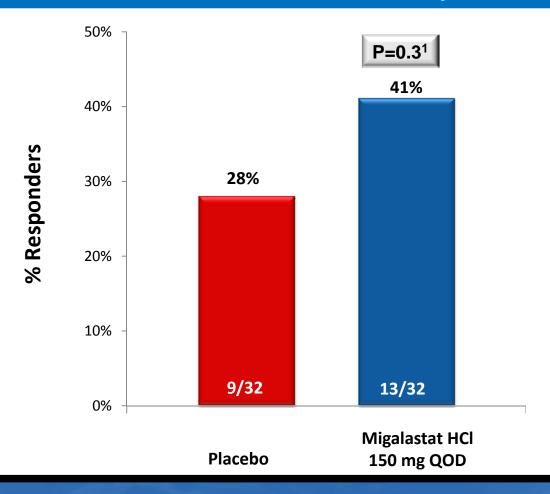


Kidney GL-3



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

Primary Endpoint at Month 6 – Responder Analysis (ITT)
Response: ≥ 50% Reduction from Baseline in Kidney Interstitial Capillary GL-3



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

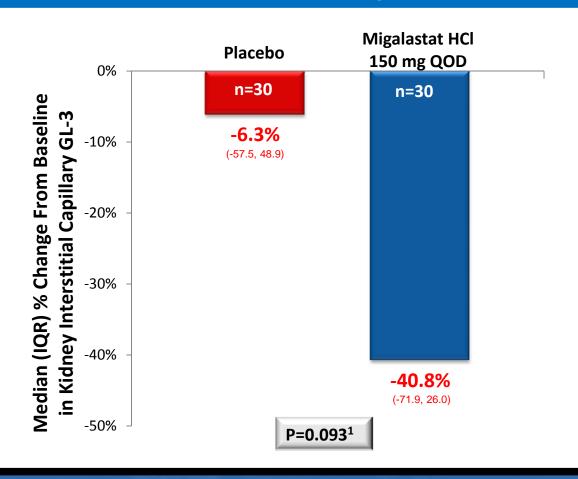
¹ Difference=12.5% (95% CI: -13.4, 37.3). Migalastat HCl minus placebo in % responders. P-value based on exact Cochran-Mantel-Haenszel test stratified by gender. Subjects with baseline biopsy but missing month 6 biopsy counted as a failure.



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

Secondary Analysis of Primary Endpoint at Month 6 (mITT*)

Median Percent Change From Baseline





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



Study 011 Status and Upcoming Milestones

1H13 2H13

Study 011 12-Month Treatment Extension

Long-Term Open-Label Extension Study*

Stage 2 (12-month) data

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

Mid-2013 FDA Meeting Anticipated

- 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: Overview and Status

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



- 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

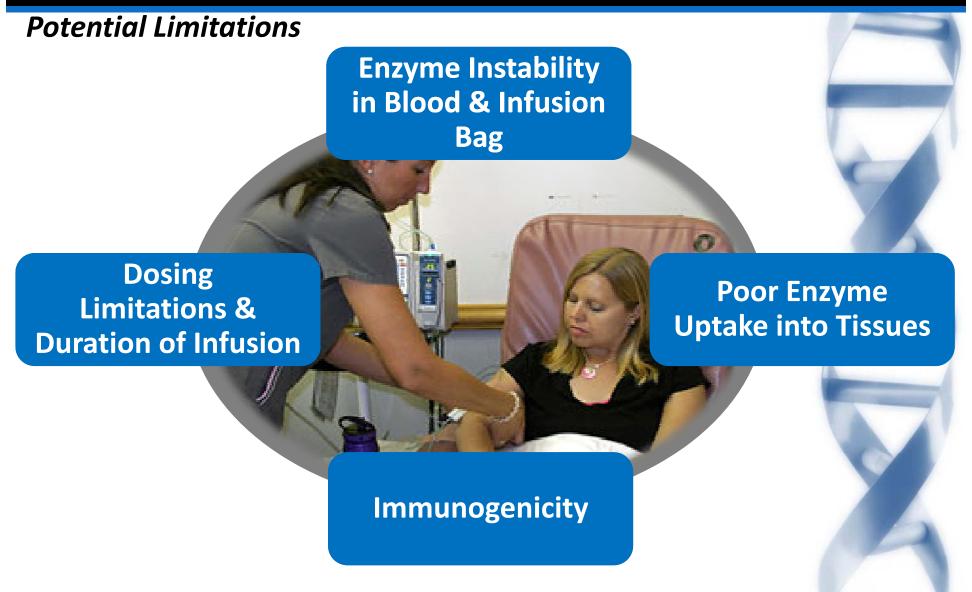




CHAPERONE-ERT COMBINATION PLATFORM FOR LYSOSOMAL STORAGE DISEASES

LSD Products Today





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



CHART Offers Multiple Potential Ways to Improve ERT Outcomes for Patients



Proposed MOA: bind to and stabilize enzyme, keeping properly folded



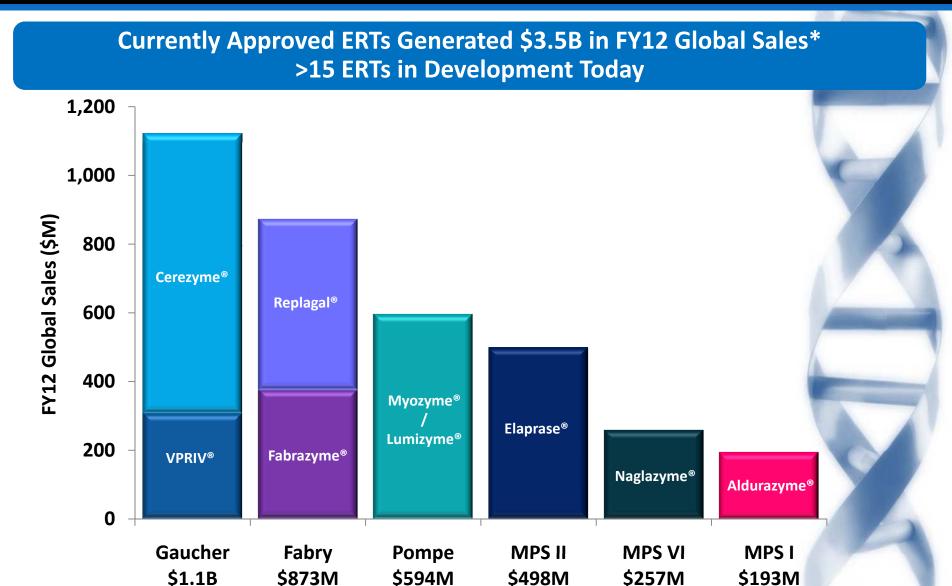
Increase enzyme uptake into tissues

Mitigate immune response

Improve dosing/delivery

\$3.5B Current ERT Market for LSDs







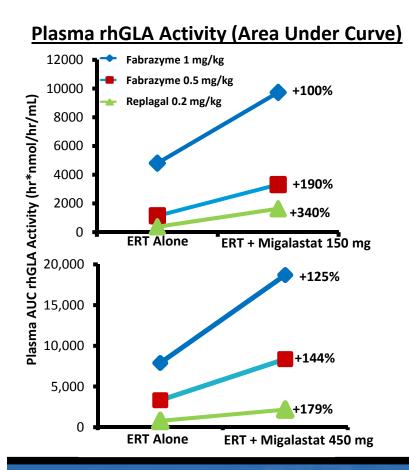
CHAPERONE-ERT
COMBINATIONS
FOR FABRY
DISEASE

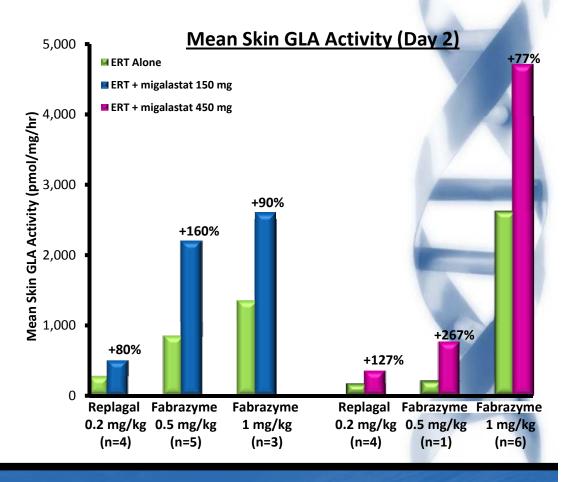
Fabry Chaperone-ERT Co-Administration



Phase 2 Study 013: Plasma Enzyme Activity and Tissue Uptake¹

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



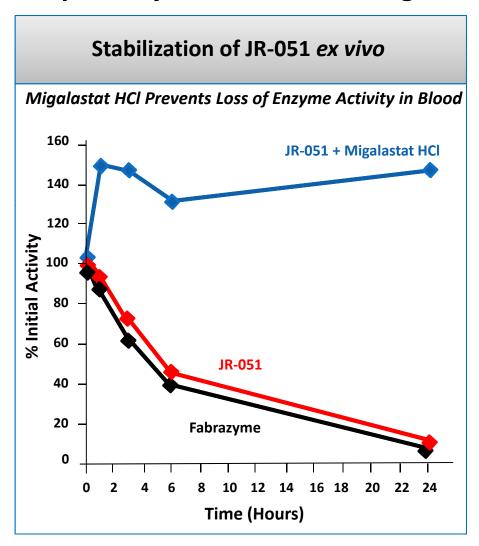


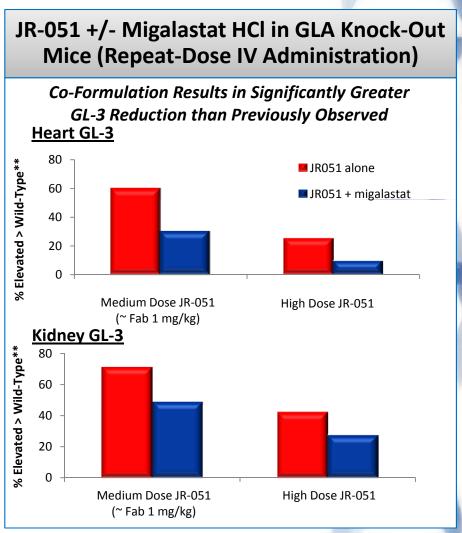
Fabry Chaperone-ERT Co-Formulation



Proprietary ERT JR-051* + Migalastat HCl

Preliminary Results





Fabry Chaperone-ERT Co-Formulation



Development Status and Anticipated Milestones

Advancing JR-051 + Migalastat HCl Toward Clinic







- Now manufacturing at 2,000 L scale
- IND-enabling studies underway
- Potential to enter clinic 4Q13/1Q14





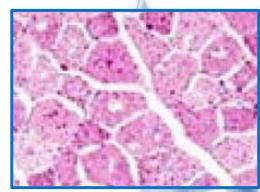
CHART CHART, PROGRAMS FOR POMPE DISEASE

Pompe Disease Overview



- Severe, fatal neuromuscular disease
- Inherited deficiency in lysosomal enzyme GAA
- 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





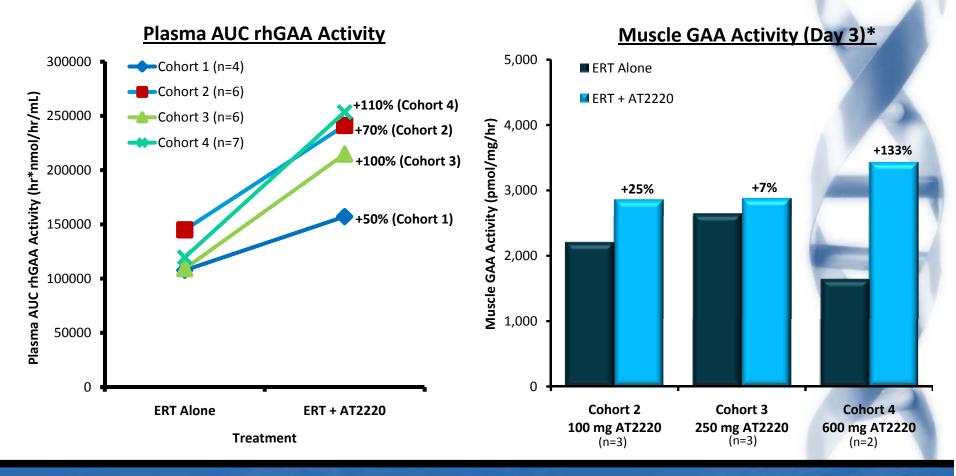
ELEVATED GLYCOGEN IN MUSCLE

Pompe Chaperone-ERT Co-Administration



Phase 2 Study 010: Plasma Enzyme Activity and Tissue Uptake¹

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

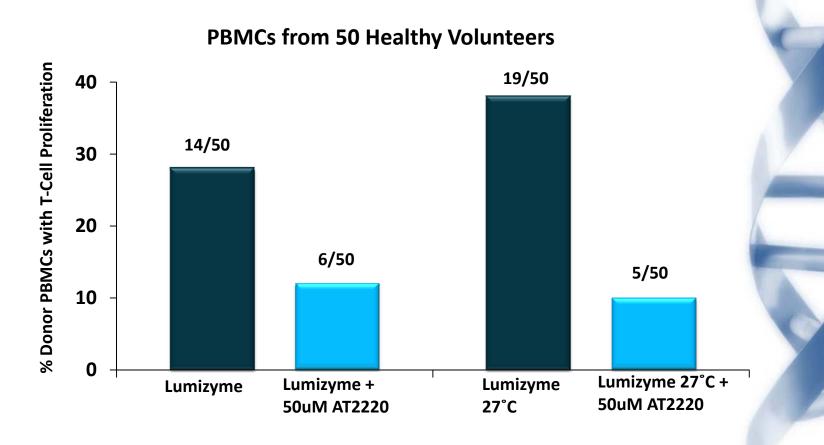


Pompe Chaperone-ERT Co-Administration



Potential to Mitigate ERT Immunogenicity

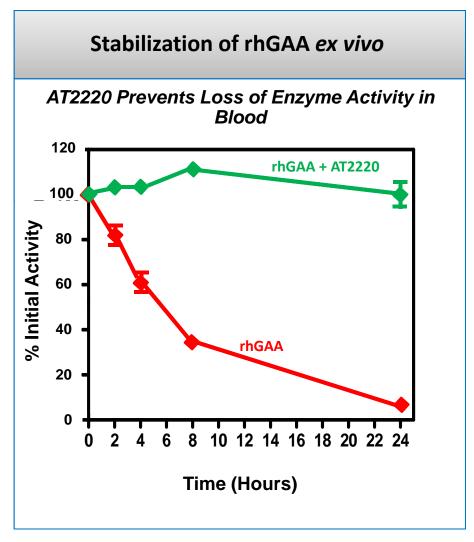
AT2220 Mitigates Human T-Cell Response Induced by Lumizyme ex vivo and May Significantly Reduce Immunogenicity of Lumizyme

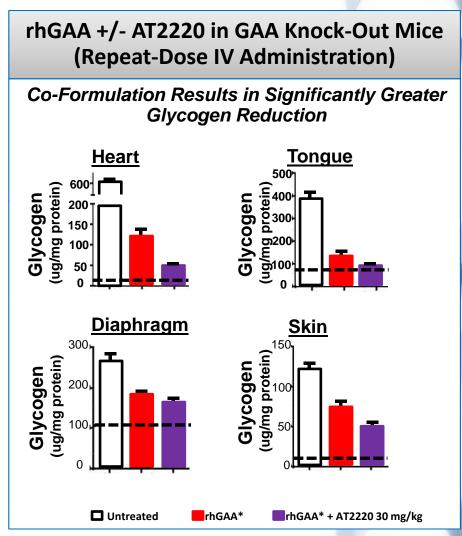


Pompe Chaperone-ERT Co-Formulation



AT2220 + Myozyme/Lumizyme (rhGAA Enzyme)¹



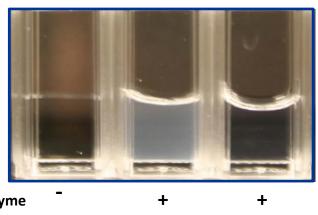


Pompe Chaperone-ERT Co-Formulation



Next-Generation ERT: SubQ Delivery Potential

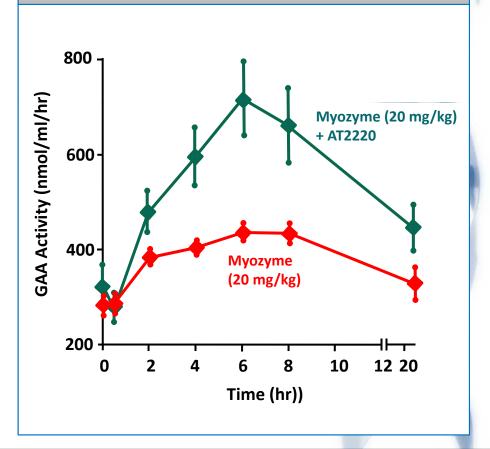
Increased ERT Stability and Prevention of Aggregation



Myozyme + + + + + + AT2220 - - +

Aggregation assessed after 4 weeks at 37°C

Increased Circulating Levels of Active rhGAA in Rats



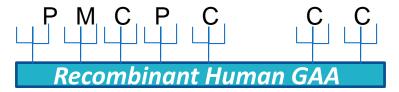
Pompe Chaperone-ERT Co-Formulation



Next-Generation ERT (AT2220 + Proprietary Enzyme)

Combining Core Pharmacological Chaperone Technology with Advanced Biologics Capabilities to Create a Next-Generation Pompe ERT

Proprietary Recombinant Human GAA Enzyme





AT2220 Small Molecule Stabilizer

- Increased exposure & tissue uptake
- Reduced immunogenicity
- Formulation for SQ route of administration



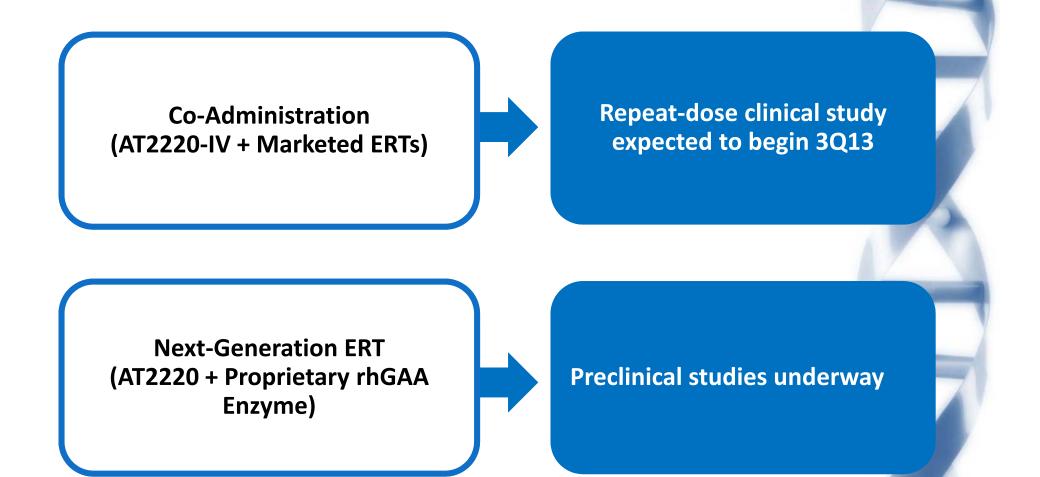
Next-Generation ERT

Potential Improvements

- Optimized glycosylation (e.g., M6-P)
- De-immunization

CHART Pathways for Pompe Disease





2013 Anticipated Milestones



Building Shareholder Value

Migalastat HCl Monotherapy for Fabry Disease

✓ Study 011 6-Month data (Stage 1) at LDN WORLD

Feb. 2013

Top-line Study 011 12-month data (Stage 2)

2013

FDA meeting to discuss U.S. approval pathway

Mid-2013

Pompe Chaperone-ERT Co-Administration

✓ Phase 2 Study 010 data at LDN WORLD (all 4 cohorts)

Feb. 2013

• Initiation of repeat-dose clinical study

3Q13

Fabry Chaperone-ERT Co-Administration

✓ Phase 2 Study 013 data at LDN WORLD (oral migalastat HCl 450 mg + ERT) Feb. 2013

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

IND-enabling studies and clinical supply manufacturing

Ongoing

Potential entry into clinic

4Q13/1Q14