



Canaccord Genuity Growth Conference
August 10, 2011

John F. Crowley
Chairman and Chief Executive Officer

At the Forefront of Therapies for Rare Diseases™

Nasdaq: FOLD
www.amicustherapeutics.com

Safe Harbor

Slide 1

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 preclinical studies and clinical trials evaluating Amicus’ candidate drug products, the projected cash position for the Company, and business development and other transactional activities. 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, 2010. All forward-looking statements are qualified in their entirety by this cautionary statement, and Amicus undertakes no obligation to revise or update this news release to reflect events or circumstances after the date hereof.

Industry Momentum in Rare Diseases

Slide 2

THE WALL STREET JOURNAL
WSJ.com

HEALTH INDUSTRY | SEPTEMBER 1, 2010, 10:38 A.M. ET

Pfizer Agrees to Acquire Drug Developer FoldRx

The New York Times

Novartis takes rare road to cures

By Tom Wright
Published: Friday, July 8, 2005

Accelaron, Shire sign pact

Boston Business Journal - by Michelle Lang

Date: Thursday, September 9, 2010, 10:05am EDT - Last Modified: Thursday, September 9, 2010, 10:25am EDT

BIOWORLD®

Rare Disease is the Place to be

Amicus Lands \$230M Deal for Fabry Chaperone Amigal

**Bloomberg
Businessweek**
Available on the iPad

THE ASSOCIATED PRESS July 2, 2010, 9:11AM ET

Eli Lilly acquires biotech drug developer Alnara

InPharm

Pfizer forms rare diseases unit

By Dominic Tyer
Created 15/06/2010 - 08:46

BIOWORLD®

Protalix: \$115M Gaucher's Deal with Pfizer is Just the Beginning

By Trista Morrison

 **Amicus**
Therapeutics

Amicus: Building Shareholder Value in 2011

At the Forefront of Therapies for Rare Diseases™

Slide 3

**Novel
Pharmacological Chaperone
Technology Platform**

Advanced Product Pipeline

**Partnership with
GSK Rare Diseases**

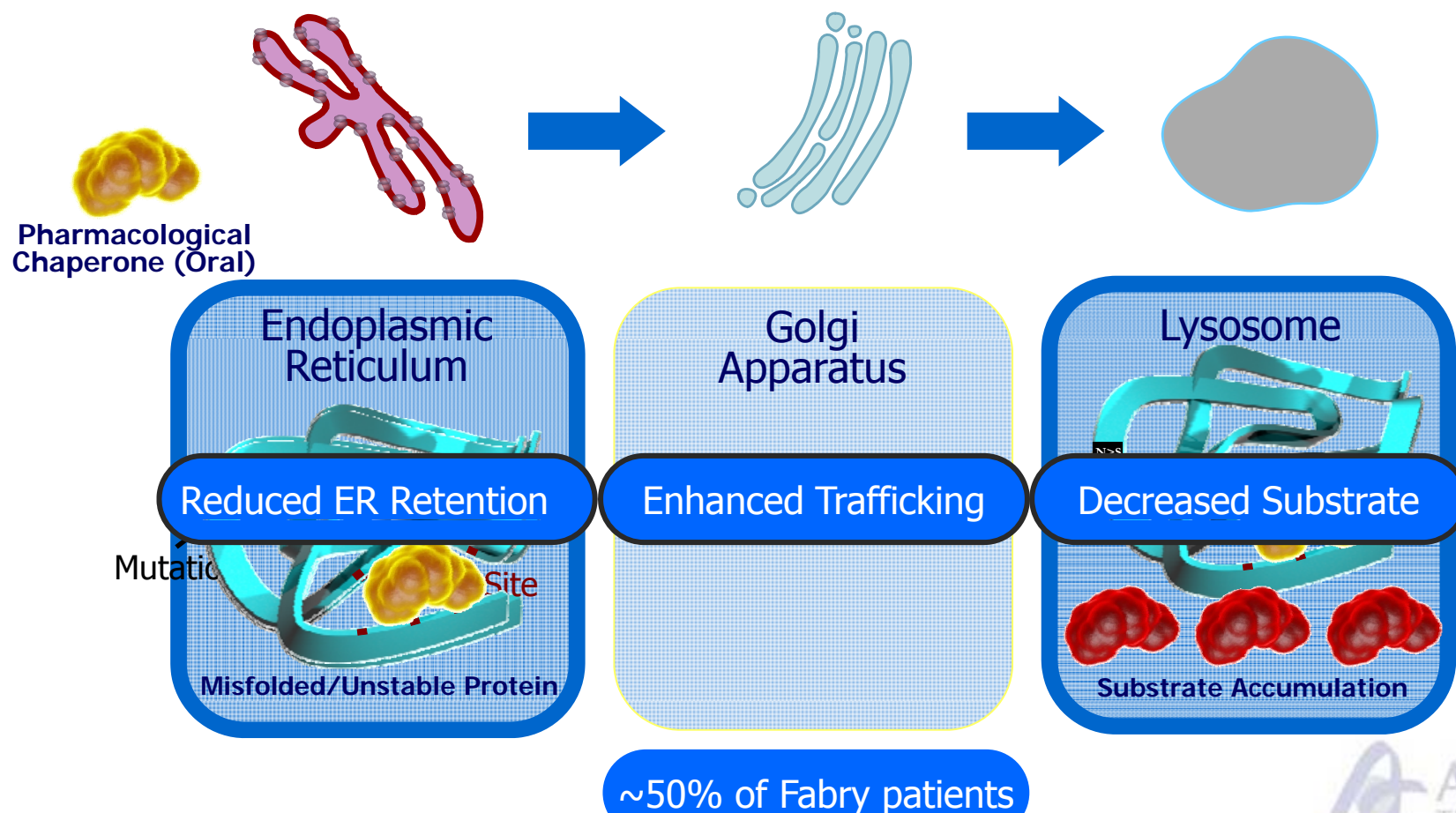
Strong Financial Position

Replacing ERTs for Lysosomal Storage Disorders

Pharmacological Chaperone Monotherapy

Slide 4

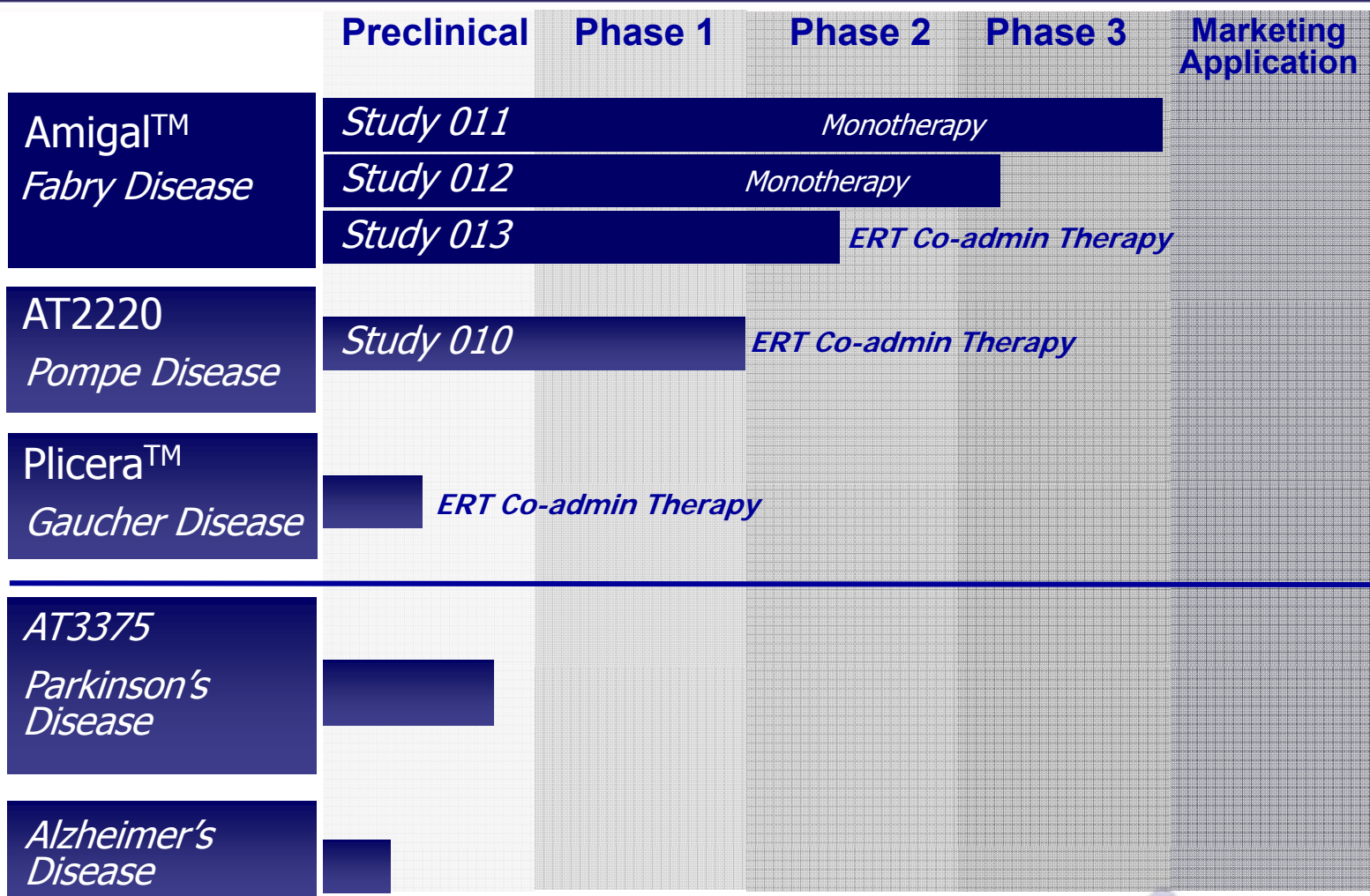
Next Generation Therapy: replacing ERT
Protein folding & pharmacogenetics



Advanced Product Pipeline

Building Significant Rare Disease Franchise

Slide 5



Strong Partnership with GSK Rare Diseases

Exclusive Worldwide Rights for Amigal

Slide 6

Value for Amicus

- Validation for pharmacological chaperone technology and Fabry program
- GSK clinical, regulatory, commercial and manufacturing expertise
- Financial strength and flexibility

Deal Terms

- \$30MM upfront license
- \$31MM equity investment
- \$170MM development + sales milestones
- Global development cost-sharing
 - 50/50 in 2011
 - 75 GSK/25 Amicus in 2012+
- Tiered double-digit royalties

"Amicus' scientific and clinical expertise in human genetic diseases is among the best in the industry, and we are pleased to be collaborators and investors in this exceptional company."

- Marc Dunoyer, Global Head, GSK Rare Diseases



Amicus Financial Strength

Slide 7

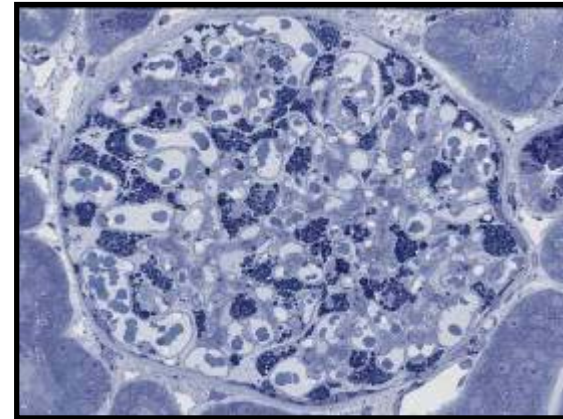
GSK partnership allows Amicus to fully invest its pipeline while maintaining cash reserves

- Cash balance (6/30/11): \$83.0MM
- 2011 Projected Net Spend: \$50-55MM
- Projected cash runway: through at least 2012 (net of anticipated GSK collaboration payments)

Amigal for Fabry Disease

Disease Overview

Slide 8



- Lysosomal Storage Disease
- 5,000 – 10,000 patients worldwide
- Fabrazyme® and Replagal® ERTs current standard of care
- Males and Females
- GL-3 substrate accumulation
- Kidney, Heart and Brain
- Fatal

Amigal (migalastat HCl) for Fabry Disease

Program Overview

Slide 9

Lead development program
Global collaboration with GSK Rare Diseases

- Small molecule for oral administration
- First in man: 2005
- Cumulative 85+ patient-years of data
- No drug-related serious adverse events and no adverse event trends
- 17 patients remain in Phase 2 extension study
 - 5 patients > 4 years, 12 patients > 3 years
 - Encouraging safety and renal function data
- Phase 3 registration studies ongoing
- First-in-man Phase 2 study of Amigal co-administered with ERT underway



Amigal for Fabry Disease

Phase 3 U.S. Registration (Study 011)

Slide 10



Study Overview

- Randomized, double-blind, placebo-controlled
- 60 patients (males and females)
- 6-month treatment period
- Endpoints:
 - Primary: $\geq 50\%$ reduction in interstitial capillary GL-3 in kidney biopsy
 - Secondary: $\geq 50\%$ reduction in urine GL-3
- Enriched patient population

Status Update

- 37 sites initiated globally
- Final recruitment expected 3Q/4Q11
- Last patient expected to enroll 4Q11

Amigal for Fabry Disease

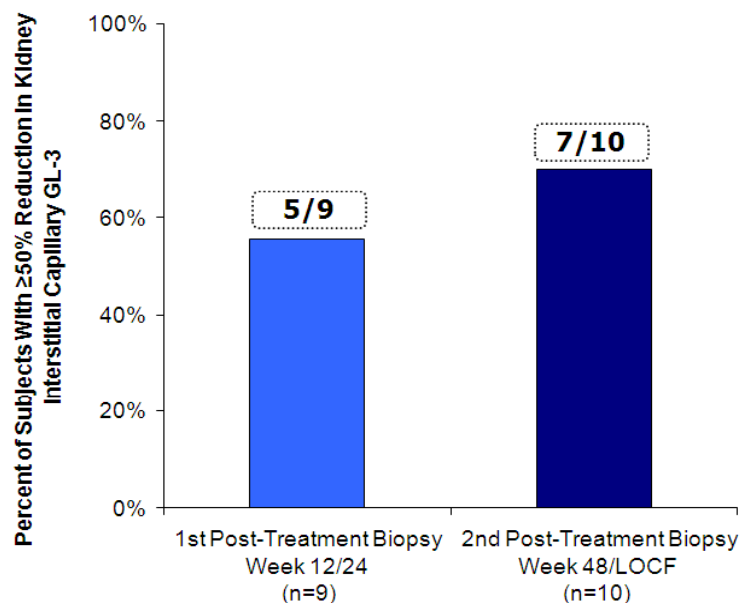
Phase 2 Data – Surrogate Endpoints

Slide 11

GL-3 substrate reduced

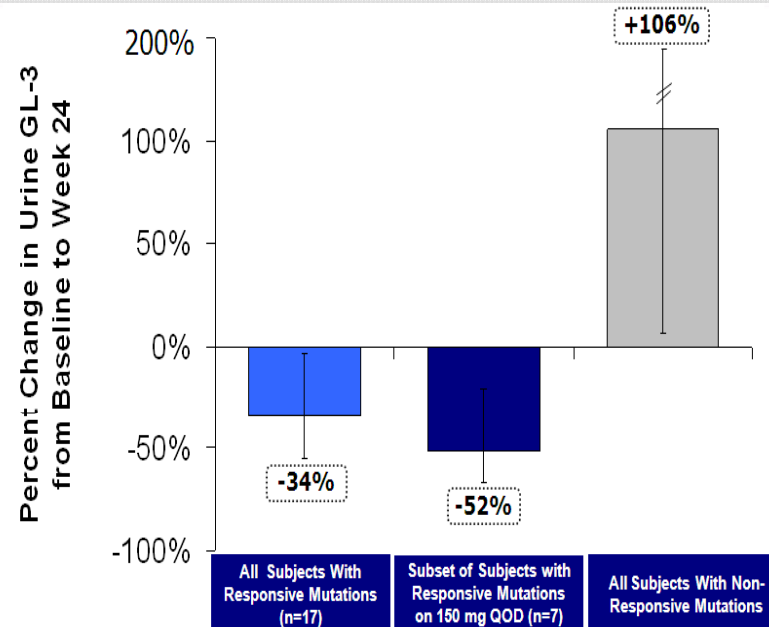
Primary Surrogate

Kidney Interstitial Capillary GL-3



Secondary Surrogate

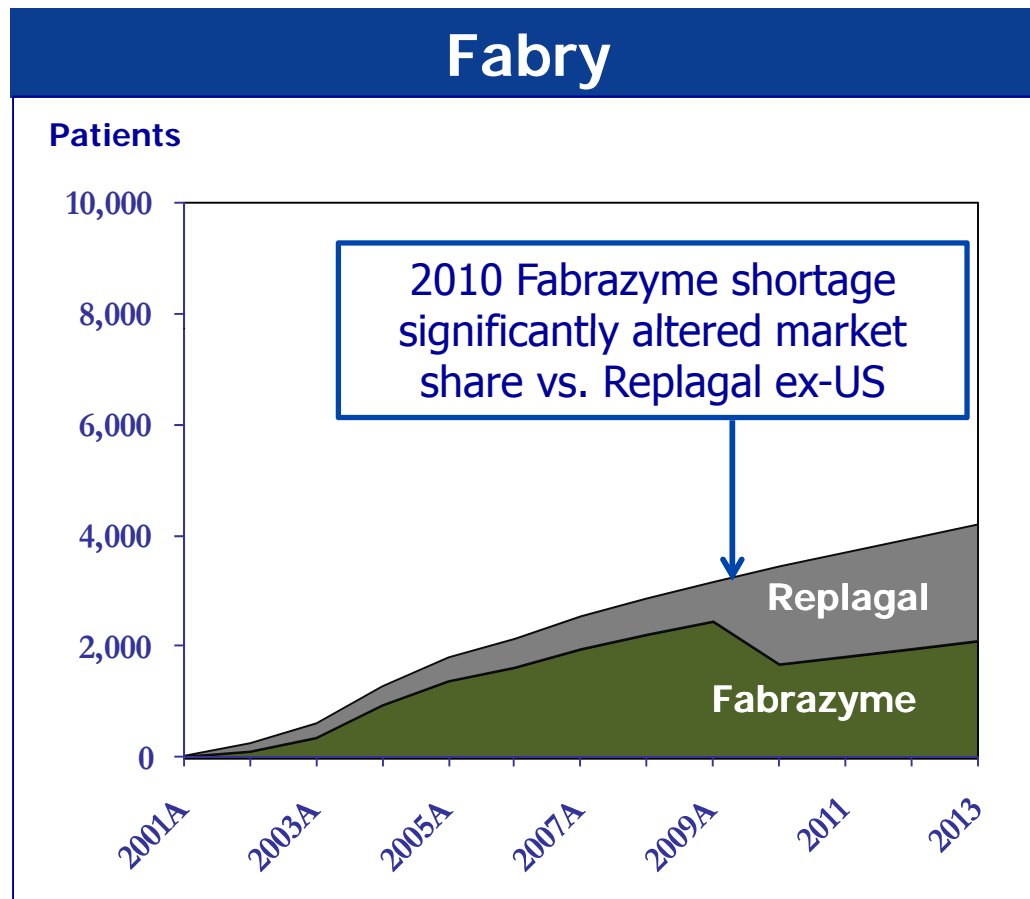
Urine GL-3



Worldwide Fabry Market

Current Landscape

Slide 13



- \$800MM in 2011 revenue projected (after shortage resolved)
 - 2010 revenue \$529M
 - 2009 revenue \$625M
- Shortage lowered sales but growth in treated patients continued
- Equal populations of males and females in patient registries
- Ratio of treated males:females was ~50:50 prior to shortage and is 65:35⁴ today
- Significant undiagnosed late onset population⁴

Sources:

1. GENZ presentation at JP Morgan Conference Jan '11 plus extrapolation of Replagal 2009 revenues; forecast doesn't include US approval of Replagal
2. Estimated change in market share driven by global supply shortage
3. Analyst projected CAGR extrapolated based on JP Morgan, AG Edwards, Collins Stewart, SG Cowen and Credit Suisse projections
4. Fabrazyme Registry 2010, FOS Registry 2009, Canadian Registry 2010; Spada et al



*Pharmacological Chaperone-ERT
Co-administration Therapy*

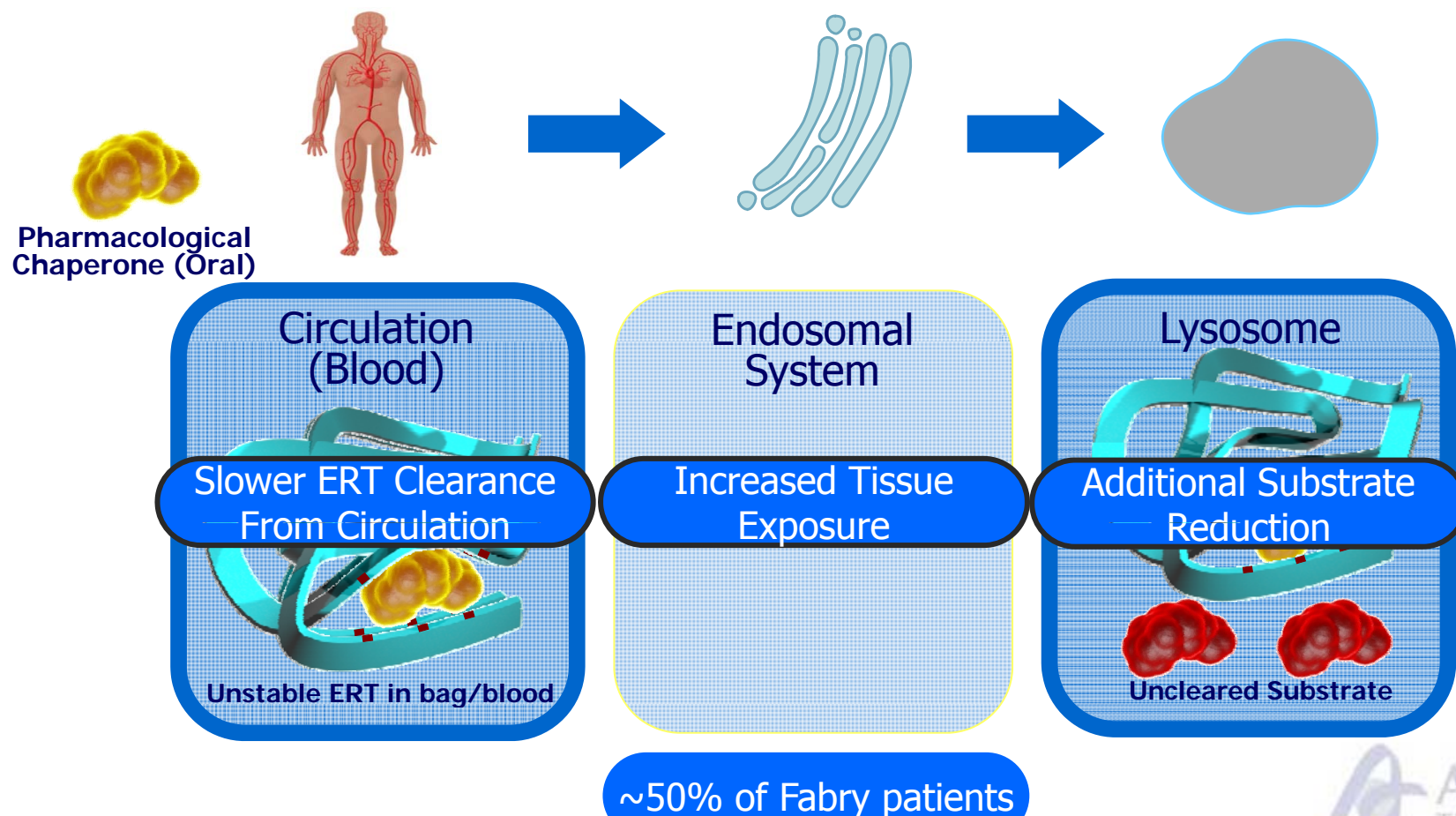
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Improving ERTs for Lysosomal Storage Disorders

Pharmacological Chaperone Co-Administration

Slide 15

Next Generation Therapy: improving ERT



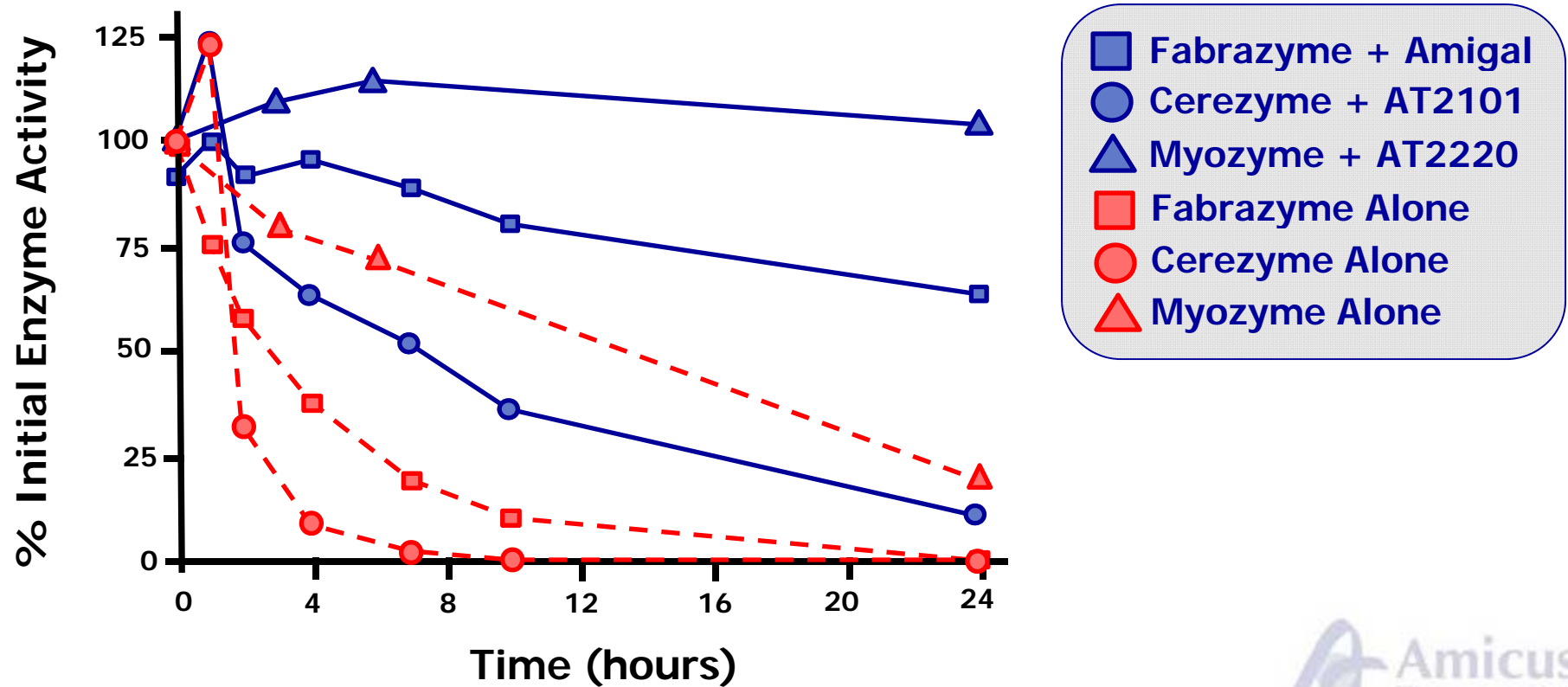
Improving ERTs for Lysosomal Storage Disorders

ERTs Denature Rapidly in Blood

Slide 16

Co-Administration: preclinical proof-of-concept

Loss of Activity of ERTs at pH=7.4



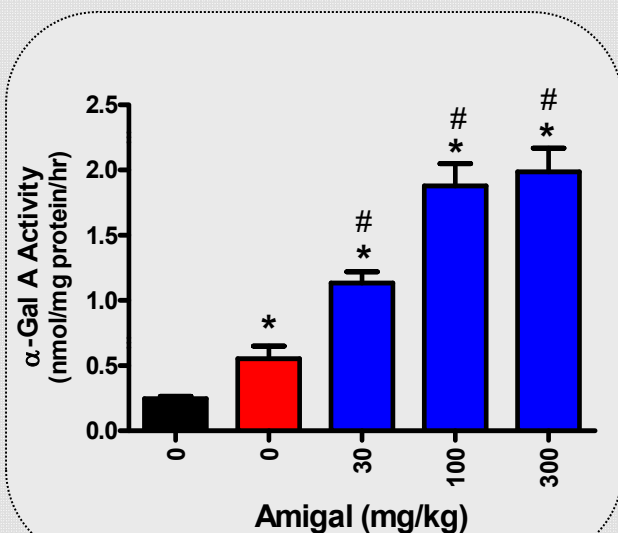
Improving ERT for Fabry Disease

Preclinical Data: Amigal-Fabrazyme Co-Administration

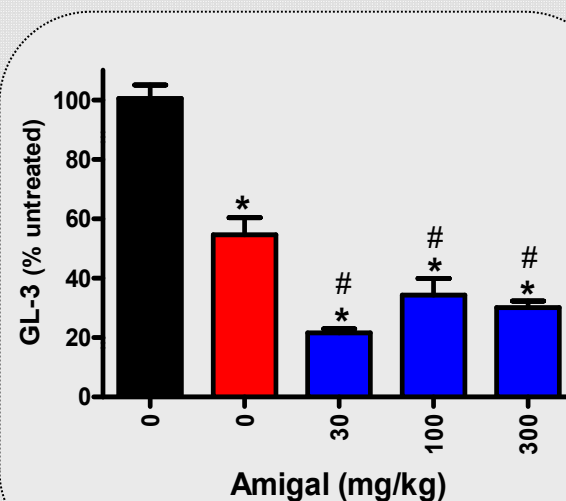
Slide 17

Amigal significantly increases Fabrazyme tissue uptake and markedly reduces GL-3 levels in kidney

Fabrazyme Kidney Tissue Uptake



GL-3 Levels in Kidney

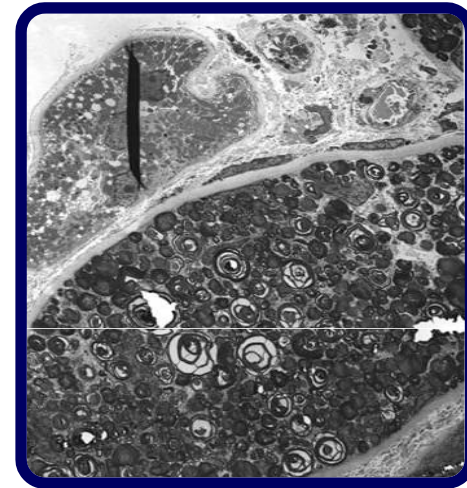


*p value < 0.05 vs. untreated controls
#p value < 0.05 vs. Fabrazyme

AT2220 for Pompe Disease

Disease Overview

Slide 18



- 5,000 – 10,000 patients worldwide
- >90% of patients have later onset disease
- Current standard of care: ERTs
 - Moderate clinical benefit
 - Immunogenicity
 - Black box warning for anaphylaxis
- 2010 revenue ~\$400MM (Myozyme/Lumizyme)
- Deficiency in acid α -glucosidase (GAA) activity
- Glycogen accumulation
 - Heart, skeletal muscles, liver, and nervous system
- Leads to heart and respiratory failure, muscle degeneration

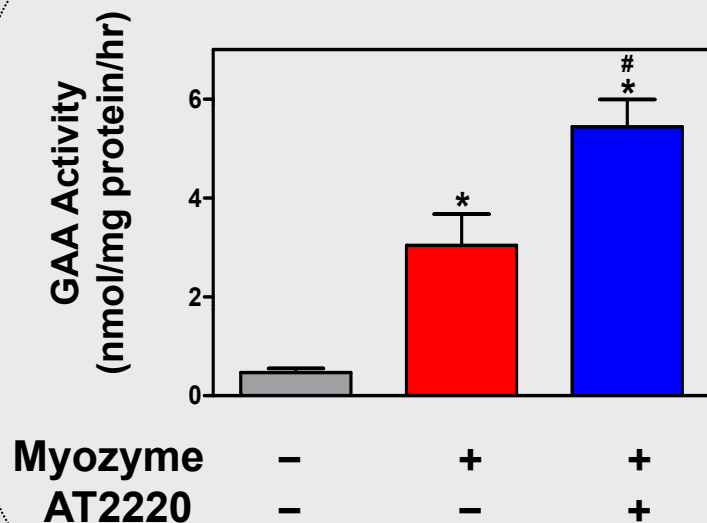
Improving ERT for Pompe Disease

Preclinical Data: AT2220-Myozyme Co-Administration

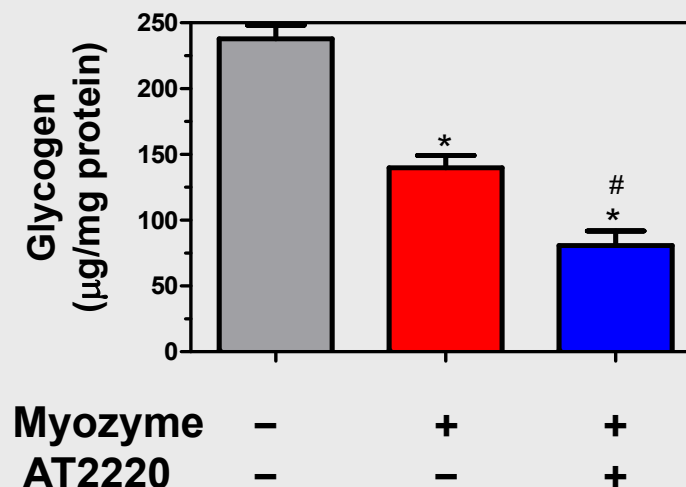
Slide 20

AT2220 significantly increases Myozyme tissue uptake and markedly reduces glycogen levels in diaphragm

Myozyme Diaphragm Uptake



Glycogen Levels in Diaphragm



*p value < 0.05 vs. untreated controls
#p value < 0.05 vs. Myozyme



*Pharmacological Chaperone Technology
for
Diseases of Neurodegeneration*

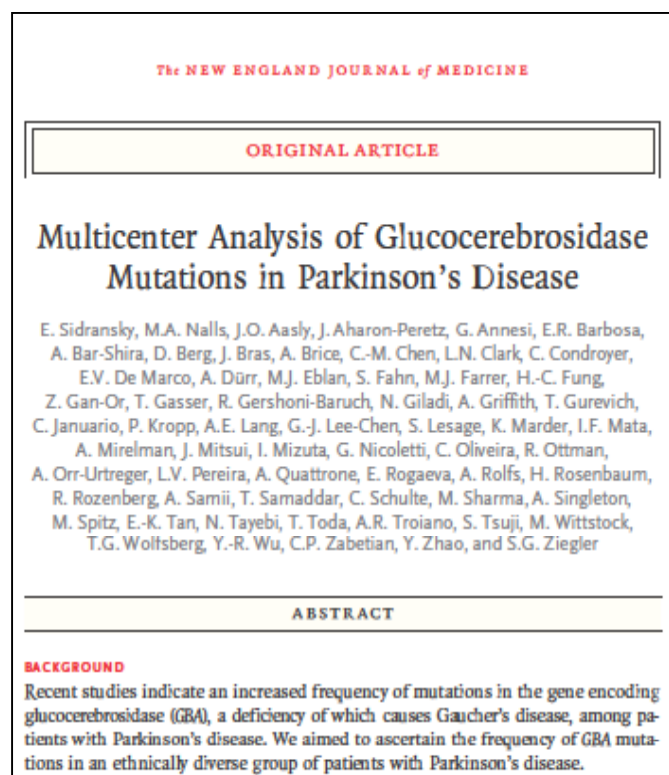
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Pharmacological Chaperones for Parkinson's

Established Link to Gaucher Disease

Slide 22

Mutations in GCase gene (*GBA*) considered most common genetic risk factor for Parkinson's Disease



- Gaucher carriers¹
 - 5x more prevalent in Parkinson's disease population
- Gaucher patients²
 - 20-fold risk for developing Parkinson's disease
- Lead pharmacological chaperone: AT3375
 - Targeting GCase for Parkinson's disease
 - Completing preclinical studies, including IND-enabling studies, in 2H11
 - Potential to modify course of disease

¹Sidransky, New Engl J Med, 2009 Oct 22; 361(17): 1651-61

²Bultron, Journal of Inherited Metabolic Disease, 2010, 33(2):167-173

Expansion into Diseases of Neurodegeneration: Link to Lysosomal Storage Disorders

Slide 23

Pharmacological chaperones for genetically defined sub-populations

- Parkinson's disease
 - Link to GCase enzyme deficient in Gaucher disease
 - Funded in part by grant from Michael J. Fox Foundation
- Alzheimer's disease
 - Link between lysosomal dysfunction and neurodegeneration
 - Funded in part by grant from Alzheimer's Drug Discovery Foundation

Pharmacological Chaperones for Alzheimer's

Link to Lysosomal Storage Disorders

Slide 24

Researching novel approaches for
2 distinct targets and patient populations

THE WALL STREET JOURNAL
WSJ.com

HEALTH INDUSTRY | DECEMBER 28, 2010

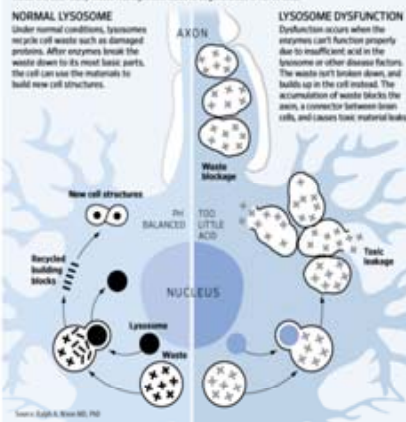
Key to Alzheimer's: Waste in Cells

By AMY DOCKSER MARCUS

Scientists have long known that an accumulation of waste products in the brain's cells can lead to neurodegenerative diseases. Now some are arguing that a similar process takes place in Alzheimer's disease and that by repairing the cells' ability to discard waste the disease can be stopped before it can cause damage.

Unnerved by Hazardous Waste

A clue to how Alzheimer's and other diseases develop can be found in lysosomes, which process waste inside the cell. Faulty waste management leads to degeneration in nerve cells.



- Genetic (familial) Alzheimer's disease
 - Presenilin 1 target
 - Missense mutations
 - 50,000-150,000 patients in U.S.
 - Early pre-clinical POC established
- Sporadic Alzheimer's disease
 - Lysosomal enzyme target
 - ~4.5MM patients (U.S.)

Amicus: Building Shareholder Value in 2011

Recent and Expected Milestones

Slide 25

Recent Milestones

- ✓ Ph 2 Amigal extension data in Fabry Patients out 3-4 years
- ✓ 1st patient in Ph 2 Amigal-ERT co-administration study in Fabry disease
- ✓ Sites opened for Amigal Ph 3 EU study in Fabry disease
- ✓ Ph 2 AT2220-ERT co-administration moving forward in Pompe disease

Upcoming Milestones

- Amigal Ph 3 Study 011 final recruitment in 3Q/4Q11, enrollment in 4Q11
- 1st patient in Amigal Ph 3 Study 012 in 3Q11
- 1st patient in Ph 2 AT2220-ERT co-administration study in 3Q11
- Late-stage preclinical POC for AT3375 in Parkinson's in 2H11
- Phase 2 Amigal-ERT co-administration preliminary data in 4Q11

Amicus: Building Shareholder Value in 2011

Value Proposition

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- Leader in rare diseases – validated by strong commercial partner GSK
- Robust development pipeline and technology platform
- ~ \$83.0MM cash
- Multiple near-term milestones



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