

Corporate Presentation

March 16, 2018

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BELLUS Overview



- Public company listed on Toronto Stock Exchange (BLU.TO)
- Developing BLU-5937: potentially best-in-class drug for multi billion dollar market
 - Chronic cough affects ~10% of adults in U.S., large unmet need
 - Clinically validated target, clear and efficient development path
 - Entering Phase 1 Q3 2018
- Balanced portfolio: partner in three mid-stage programs
- Financed for 2+ years through multiple clinical milestones
- Management with track record of execution

Pipeline



	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3
BLU-5937 Chronic Cough	Wholly-owned			
KIACTA Sarcoidosis	Partnered – Auven Therapeu (Revenue Share)	itics		
AMO-01 Intellectual Disabilities	Partnered – AMO Pharma (Revenue Share & Royalty)			
ALZ-801 Alzheimer's Disease	Partnered – Alzheon (Revenue Share & Royalty)			

BLU-5937: Best-in-Class Potential



P2X3:
Validated
target for
chronic cough

Merck acquired a P2X3 antagonist program for US\$500M based on positive Phase 2 data

Problematic side effect profile with 80% patients experiencing change in taste perception (alteration or loss)

BLU-5937:
Potentially
best-in-class
P2X3 antagonist

High P2X3 selectivity driver for potential differentiated product profile with improved efficacy and reduced/no effect on taste perception

Clear, efficient path to demonstrate superiority

BLU-5937 History Developed at Astra Zeneca and then NEOMED Institute

Global rights licensed by BELLUS in February 2017

Low risk and superior profile targeting potential multi billion dollar drug class

Chronic Cough

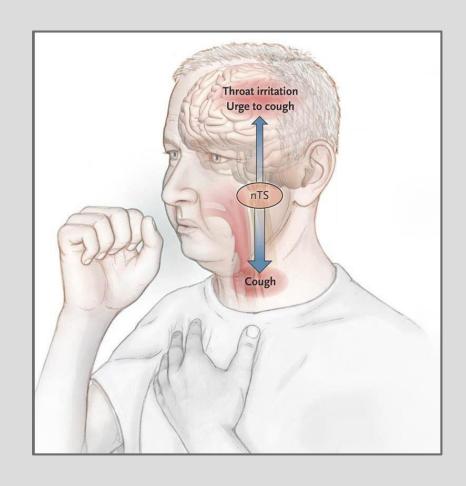


Characteristics

Cough lasting > 8 weeks, associated with:

- Pulmonary diseases (asthma, COPD, IPF)
- Extra-pulmonary disorders (allergic rhinitis, gastro-oesophageal reflux)
- Side effect of certain drugs
- No identifiable cause

Cough frequency can be high (10-100s times per hour) with lengthy duration (months or years)



"I see patients that have been coughing 2 months to 30 years. Within that group, there is a good portion where I am the 8th or 10th doctor."

Chronic Cough KOL

Impact on Society



Patients

Physical, social, psychosocial complications

- Sleep deprivation
- Chest pain
- Urinary incontinence
- Interference with lifestyle, work & leisure
- Anxiety / Depression

Healthcare System

Time and resource intensive for the healthcare system

- Chronic cough affects ~10% of the adult population
- 38% of pulmonologist practice
- Resource intensive diagnosis
- Complex patient pathway with many physicians involved (PCP, Allergist, ENT, Pulmonologist, Cough Clinic)

"There are some patients who really can't function and have urinary incontinence issues or can't sleep in the same bed as their spouses" -Allergist

Limited and Inadequate Treatment Options for Chronic Refractory/Unexplained Cough



Treatments

- Opioids
- Benzonatate
- Gabapentin / Pregabalin
- Speech therapy
- Dextromethorphan (cough syrup)

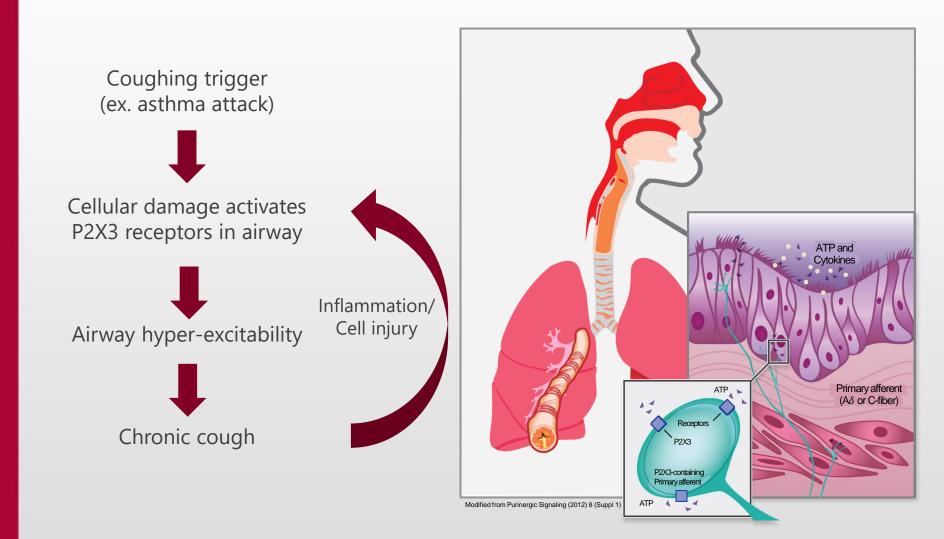
Inadequate Results

- Limited efficacy and/or duration of effect
- Addiction potential
- Significant side effects
- Inability to use on a chronic basis

"There is truly a need for a safe and effective non-narcotic, non-sedating cough suppressant for those that have gone through a thorough workup and treatment for reversible causes" -Pulmonologist

P2X3 Receptor: Rational Target for Chronic Cough &



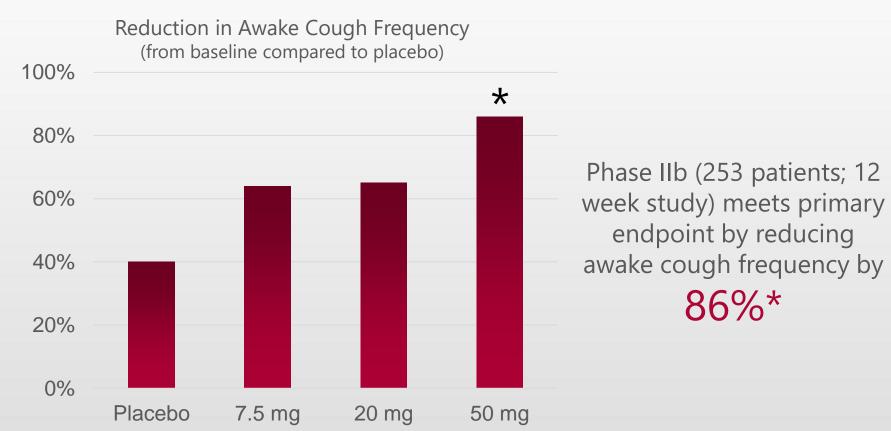


P2X3 is a sensory receptor found in peripheral nervous system with central role in triggering cough reflex

P2X3 Receptor: Clinically Validated Target



Merck's MK-7264 / AF-219 - P2X3 benchmark compound



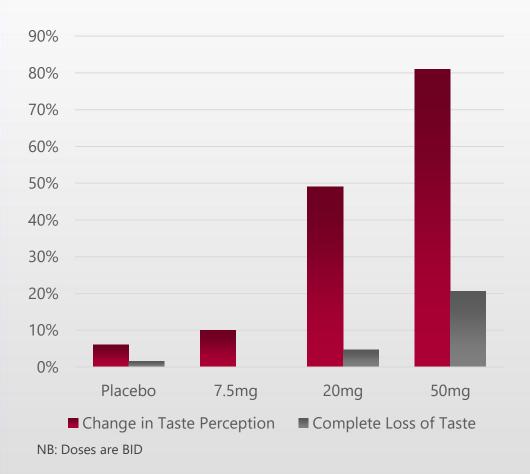
*37% vs. placebo (p<0.05) NB: Doses are BID

Merck & Co., Inc. (2017). Merck Announces Presentation of Phase 2 Results for MK-7264, an Investigational, P2X3 Receptor Antagonist, Being Evaluated for the Treatment of Chronic Cough. [Press Release]. Retrieved from http://www.mrknewsroom.com/news-release/research-and-development-news/merck-announces-presentation-phase-2-results-mk-7264-inve

MK-7264: Significant Adverse Taste Effect



Percent of Patients Reporting Taste Side Effect



At therapeutic dose (50 mg BID):

~80%

of patients reported change in taste perception ~40%

of patients reported very/extremely bothersome change in taste perception

Merck & Co., Inc. (2017). Merck Announces Presentation of Phase 2 Results for MK-7264, an Investigational, P2X3 Receptor Antagonist, Being Evaluated for the Treatment of Chronic Cough. [Press Release]. Retrieved from http://www.mrknewsroom.com/news-release/research-and-development-news/merck-announces-presentation-phase-2-results-mk-7264-inve

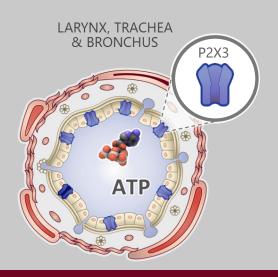


P2X3 and P2X2/3 Roles in Cough and Taste

ATP-gated ion channels that transmit sensory signals, function in two predominant trimer structures:

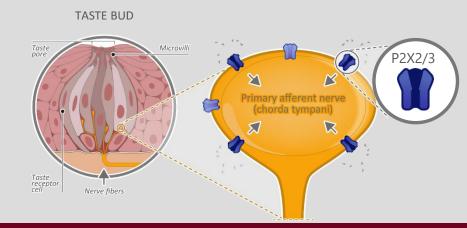


P2X3 homotrimers have primary role in **cough reflex**





P2X2/3 heterotrimers have major role in **taste**



Opportunity for highly selective P2X3 antagonist that inhibits P2X3 to reduce cough and does not inhibit P2X2/3 to maintain taste

BLU-5937: Best-in-Class Profile



Twice Daily
Oral Dosing
Expected

High
Selectivity and
Potency for P2X3

No safety findings of concern Broad and comprehensive IP to 2034

Targeting ~2.6M
US Patients



Key Differentiating Factor: P2X3 vs P2X2/3 Selectivity

BLU-5937 is

10x

> 1000x

more potent

more selective (vs P2X2/3)

than MK-7264 for the human P2X3 receptor

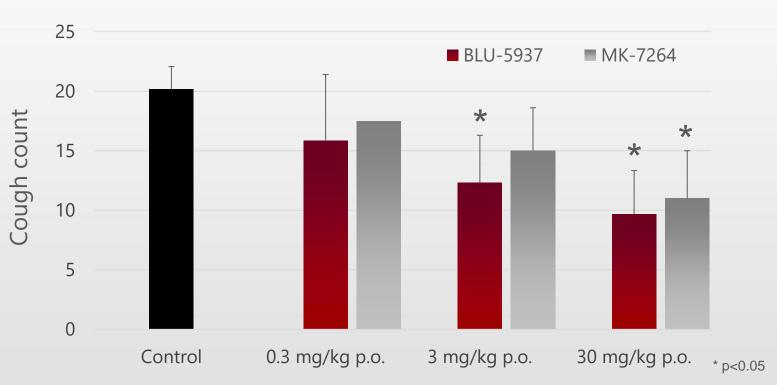
	BLU-5937	MK-7264
hP2X3 (IC ₅₀)	Low nM	Mid nM
hP2X2/3 (IC ₅₀)	Mid µM	High nM

Fluorescent calcium flux assay, using Fluo-8 kit and 3 μ M α , β Me AT, performed in HEK293 cells stably expressing P2X3 and P2X2/3; 12 concentrations of each compound tested.





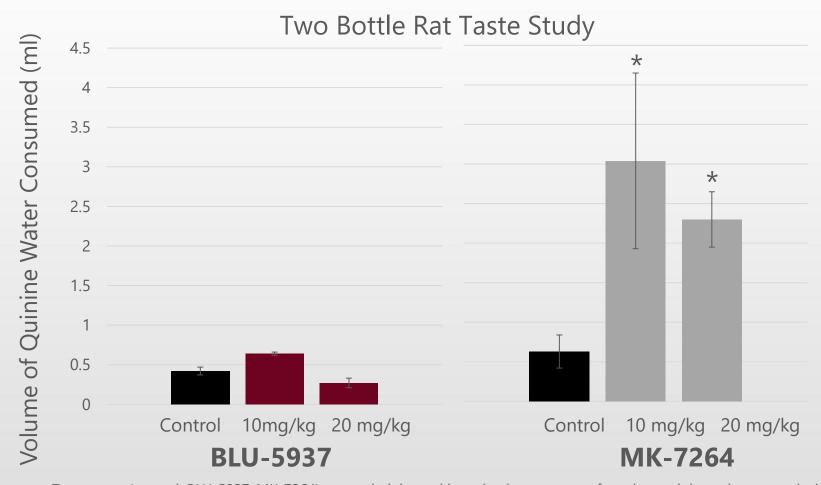
Cough Response Study



Treatments (control, BLU-5937, MK-7264) were administered orally (p.o.) 2 hours prior to tussive agent exposure: citric acid (0.1 M, aerosol) and histamine (0.6 mM, aerosol); n=6 animals per group

Taste Effect in Rat Taste Model

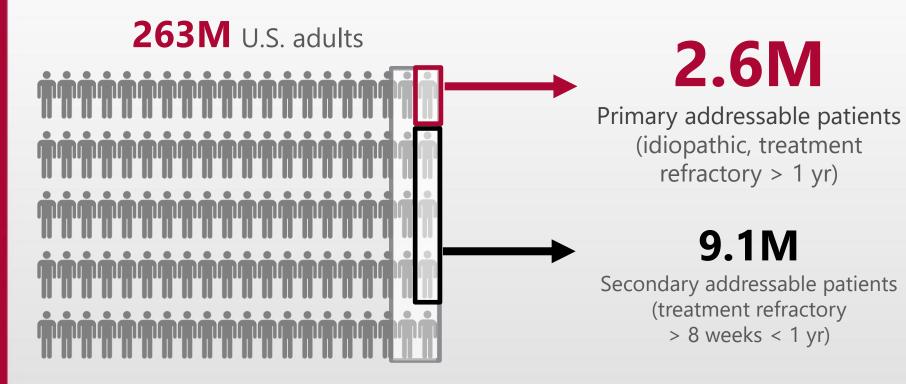




Treatments (control, BLU-5937, MK-7264) were administered ip: animals were water-fasted overnight and presented with one bottle of water and one bottle of water plus quinine (0.3mM) at T_{max} ; volume of liquid consumed measured for 15 minutes; n=10 animals per group; * p < 0.05 vs control

Addressable Patient Population





=10% or 26.3M chronic cough patients

Comparables Analysis and Pricing



BLU-5937 Price Analogs

	Indication	Addressable US Patient Population	Market Dynamics	2016 WACC/mo
Linzess (linaclotide) capsules	Chronic idiopathic constipation	35M	Genericized	\$319
amitiza° lubiprostone	IBS with constipation	4M	Genericized	\$330
ADVAIR IIMIS	Adult asthma and Adult COPD	18.4M 12M	Highly competitive, several generics	\$289
Aptiom° (eslicarbazepine acetate) tablets 200 mg - 400 mg - 600 mg - 600 mg	Partial onset seizures	1M	Highly competitive	\$570

Torreya Insights Report 2017

Key Development Milestones



Q2 2018	Q3 2018	2019
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File Clinical Trial Application	Start Phase 1	Start Phase 2
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Phase 2

Safety margins	Effect on ta
Starting dose for Phase 1	Safety/tolera
	Dose selection

ect on taste

ty/tolerability

Effect on cough and taste

Dose selection for Phase 3

Governance



Board of Directors

Dr. Francesco Bellini (Chair)

Franklin Berger

Pierre Larochelle







Dr. Youssef Bennani

Joseph Rus

Dr. Clarissa Desjardins

Roberto Bellini









Management

Roberto Bellini, President and Chief Executive Officer

Dr. Denis Garceau, Senior Vice President, Drug Development

François Desjardins, Vice President, Finance

Tony Matzouranis, Vice President, Business Development

Stock and Financial Information



119.5M
132.7M
~\$50M
\$23.9M
~30%
~35%

¹as at December 31, 2017

\$20M

financing completed on December 12th with significant institutional healthcare investor participation

Current cash runway provides 2+ years of capital through multiple milestones

Multiple Upcoming Milestones to Drive Value



Management Past Execution

- ✓ Attracted >\$100M to funding projects
- Executed multiple global clinical studies including Phase 3
- ✓ Completed multiple transactions (in-licensing, partnering, out-licensing)

Milestones

- 28 Day Toxicity Studies (Q2 2018)
- File regulatory dossier for BLU-5937 Phase 1 (Q2 2018)
- Start BLU-5937 Phase 1 study (Q3 2018)
- Topline Phase 1 data including taste (Q4 2018)
- Progress on other pipeline projects



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