# **Corporate Overview**

# Developing New Therapies for Rare Respiratory Diseases

January 2023



#### **Safe Harbor Statement**

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### **Executive Leadership Team**

Matthew Pauls, J.D., M.B.A. Chair & Chief Executive Officer			Ray Pratt, M.D. FACP Chief Medical Officer			Dave Lowrance Chief Financial & Administrative Officer	
Peter Clarke, Ph.D. EVP, Global Technical Operatio			ions EVP, Global Commercial				
Anne Erickson SVP, Head of Global Business Operations		<b>Charles LaPree</b> SVP, Global Regulatory Affairs and Quality Assurance		Kate McCabe, J.D. SVP, General Counsel			
ACUCELA.	pharmaceuticals	BAYER E R	ر <sup>ال</sup> Bristol My	vers Squibb <sup>™</sup>		<b>BERLAND®</b> RMACEUTICALS	
WILSON SONSINI	insmed	Johnson	n 4Johnson		NT Als, inc.	<b>Shire</b>	STRONGBRIDGE
THERAPEUTICS	Jazz Pharmad	ceuticals	<b>Pfizer</b>	ANNEXON biosciences	95н	alozyme	BIOVAIL
Pharmaceuticals			M Eisa		KWELL Medical	<b>PTC</b> THERAPEUTICS	NPS Pharma
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Pursuing Transformative Therapies for Rare Respiratory Diseases

**Focused** on single Phase 3 program: molgramostim nebulizer solution (molgramostim) in autoimmune pulmonary alveolar proteinosis (aPAP)

- Recombinant form of human granulocyte-macrophage colony-stimulating factor (GM-CSF)
- Favorable efficacy and safety data generated from the first IMPALA trial
- Pivotal Phase 3 trial underway builds on key learnings from IMPALA

#### Seasoned management team

• Deep experience in the development and commercialization of rare respiratory therapeutics and pulmonary medicines

#### Capitalized through major clinical and regulatory milestones

 ~\$134M\* in cash expected to fund company ~18-months beyond Phase 3 data read-out, beyond BLA filing, and through potential approval

\*As of 9/30/22

#### Quality investor base



#### **Investment Thesis**



The molgramostim in aPAP clinical program has a high probability of success

As a novel inhaled biologic, molgramostim has the potential for a long-term, durable revenue stream

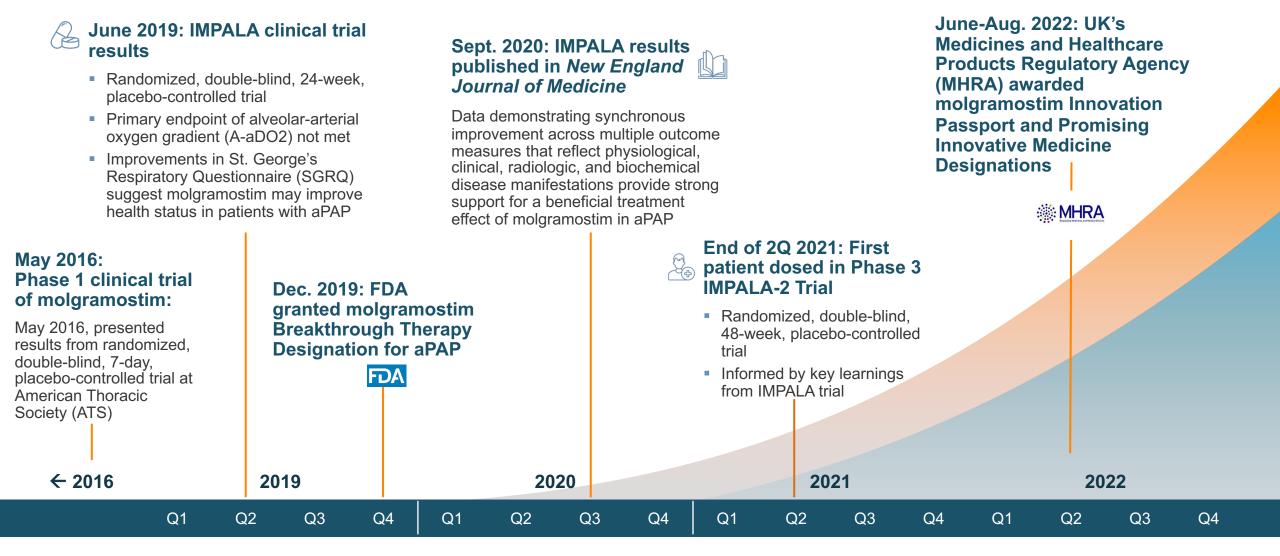




Strong balance sheet – funded through 2025



# **Molgramostim Key Highlights**





## **IMPALA-2 Key Milestones**

- Expect top line data readout end of 2Q 2024
- Upon a successful trial, Company plans to submit regulatory applications in the US, UK, EU, and Japan

Company operations funded through 2025 (~18-months beyond anticipated IMPALA-2 top line results)

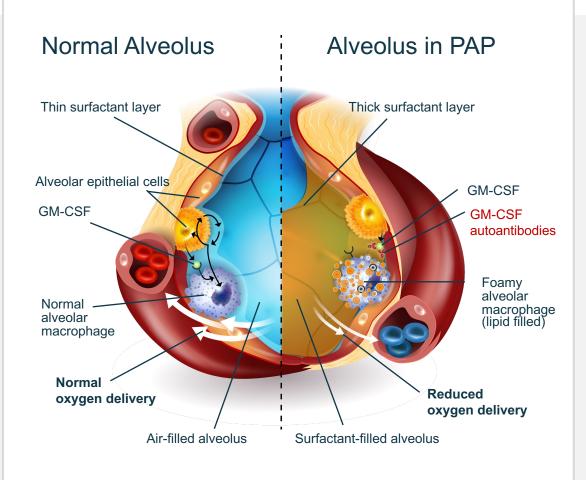


# Molgramostim

### Molgramostim for Autoimmune Pulmonary Alveolar Proteinosis (aPAP)



# aPAP: A Disease of Alveolar Macrophage Dysfunction



#### **Alveolar macrophages**

Need GM-CSF for maturation. expansion, and function (e.g., surfactant clearance)

#### **GM-CSF**

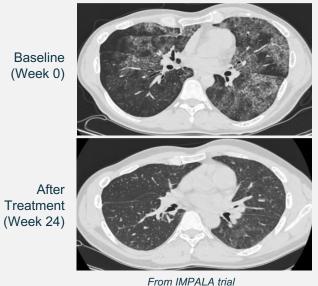
Critical to alveolar homeostasis. structure, function, and host defense

#### aPAP

Caused by GM-CSF autoantibodies which block GM-CSF signaling and reduce surfactant clearance

Surfactant accumulation causes altered gas exchange in the lung, reduced blood oxygenation and, ultimately, hypoxemic respiratory failure

#### **aPAP PATIENT**





### aPAP is a Rare, Long-Term, Chronic Disease

# Progressive Shortness of Breath

- Gas exchange in the lungs is impaired and patients may experience shortness of breath
- At first it occurs upon exertion, but as disease progresses, it can occur even when a person is at rest

# Cough and Episodes of Fever

 Cough, sputum production, and episodes of fever, especially if secondary lung infection develops

# Fatigue, Decreased Exercise Tolerance

 Fatigue and significantly reduced exercise capacity can dramatically impact the simplest of daily activities, e.g., getting winded walking up a flight of stairs

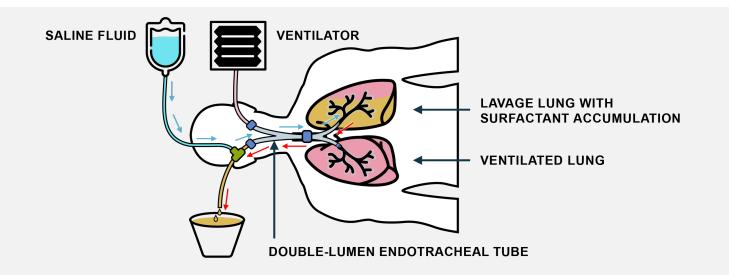
### Fibrosis and Lung Transplant

In the long-term, the disease can lead to serious complications, including fibrosis, often leading to the need for lung transplantation

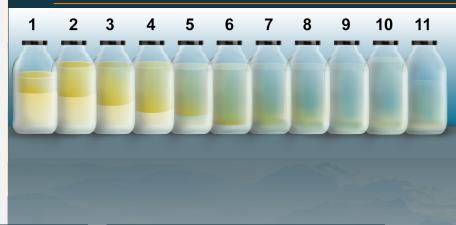
#### There are no approved drugs for the treatment of aPAP. Only option is whole lung lavage, an invasive procedure.



- Whole lung lavage is an invasive procedure to physically remove excess surfactant from the lungs and requires hospitalization
- Performed under general anesthesia by highly experienced physicians at certain sites



Whole Lung Lavage is a Highly Invasive Procedure Performed in a Tertiary Center and is <u>Not</u> Standardized



Requires insertion of doublelumen endobronchial tube for lung separation Treated lung is repeatedly filled with up to 15-50L of saline and then drained by gravity

Patient is percussed to emulsify the surfactant sediment Saline is drained by gravity and continued until lavage fluid becomes clear

Sources: 1: Campo, Assessment and Management of PAP in a Reference Center, Orphanet Jour. of Rare Dis., 2013; 2: Campo, Nat. History of PAP Data from Italian Nat. Reference Center, ERJ, 2019.; Seymour, J. J. Pulmonary alveolar proteinosis: Progress in the First 44 Years, Am. J. Respir Crit. Care Med, 2002.

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# **Complications and Short-Comings of Whole Lung Lavage**

# <u>\_</u>

#### **Potential Complications**

- Rib fracture
- Hypoxia
- Pneumothorax (collapsed lung)
- Hydrothorax (fluid in pleural cavity)
- Superimposed infection
- Acute Respiratory Distress Syndrome (ARDS)



#### **Short Comings**

- Treatment fails to address pathophysiology of disease
- Patients continue to experience symptomatic deterioration between procedures – and can require more than one whole lung lavage
- Rollercoaster ride of improvement and decline
- The procedure, performed under general anesthesia, is not standardized and remains highly operator-dependent



Due to aPAP's rarity and associated non-specific symptoms, patients are often misdiagnosed with more common pulmonary illnesses (e.g., recurrent pneumonia, chronic bronchitis, COPD, asthma)

# Diagnostic tests typically conducted to rule-out other more common pulmonary diseases:

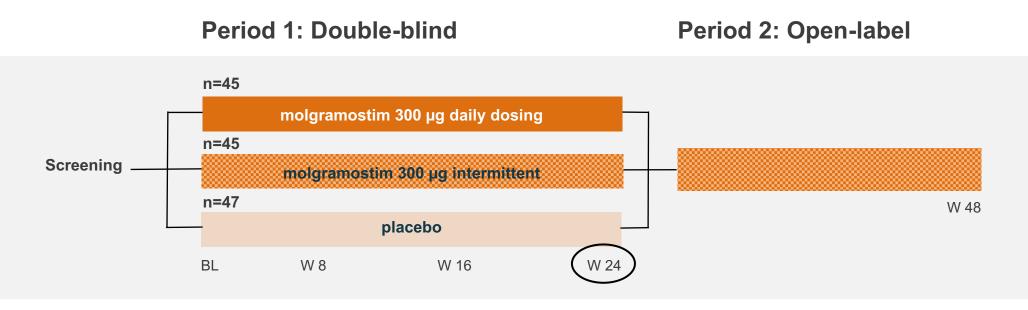
Imaging
Pulmonary function tests
Secondary PAP testing

Transbronchial biopsy and cytological analysis of bronchoalveolar lavage fluid



# **IMPALA Clinical Trial Design**

= Primary efficacy analyses



#### **Primary Endpoint\***

Change from baseline in A-aDO<sub>2</sub>

#### Secondary Endpoints\*\*

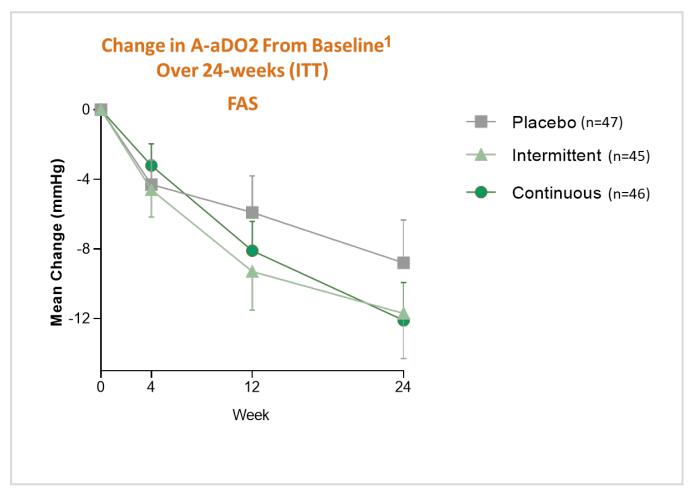
- 6-minute walk distance
- SGRQ
- Time to whole lung lavage/requirement for whole lung lavage

\*\*Secondary endpoints: Analyzed in parallel and corrected for multiplicity



\*Primary analysis: Continuous dose vs. placebo

# **IMPALA Trial Did Not Meet the Primary Endpoint**



1: Trapnell, Inhaled Molgramostim Therapy in aPAP, NEJM, 2020.

Continuous Once Daily Dosing Regimen (OD)

<u>Full Analysis Set (FAS)</u>\* Estimated treatment difference of -4.6 mmHg (p=0.17)

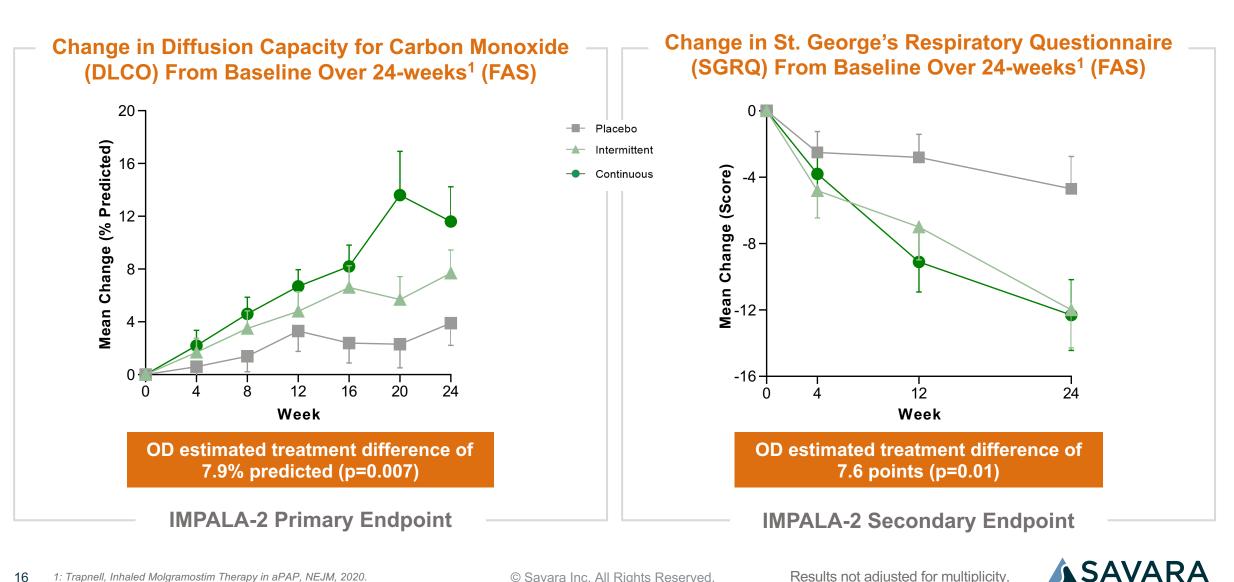
<u>Revised FAS</u>† Estimated treatment difference of -6.5 mmHG (p=0.025)

\*Protocol specified analysis (ITT).

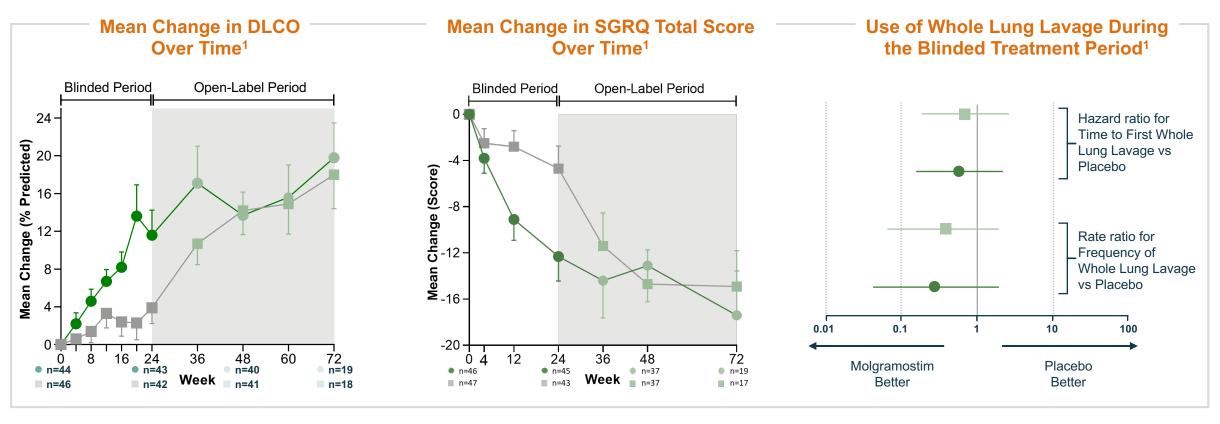
†Revised analysis excludes 4 patients using supplemental oxygen during testing (placebo: n=2, intermittent: n=1, continuous: n=1).

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#### **IMPALA: DLCO and SGRQ Showed Robust Improvement with Continuous Once Daily (OD) Dosing Regimen**



# IMPALA Open-Label Data Show Sustained Effect, or Continued Improvement, after Longer-Term Drug Exposure



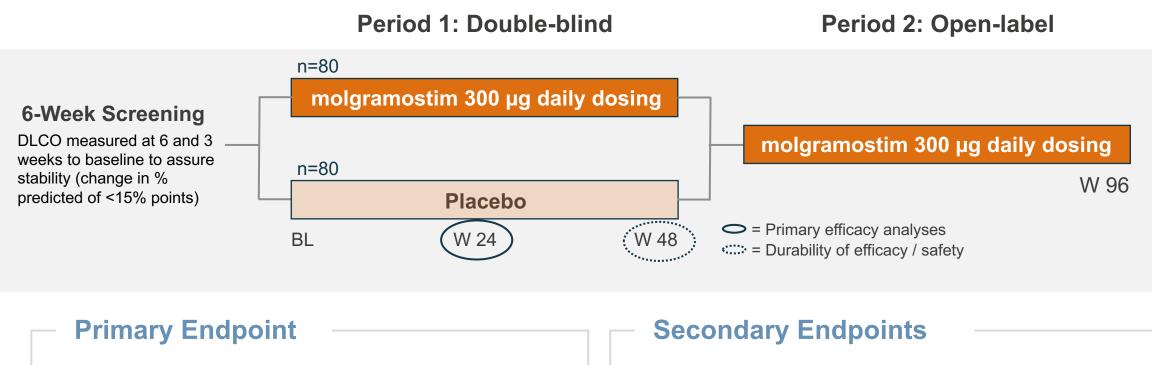
Continuous molgramostim Placebo Intermittent molgramostim

Dosing schedules for blinded and open-label periods were different. All patients received intermittent molgramostim during open-label period.



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# Phase 3 IMPALA-2 Trial Design Leverages Key Learnings from IMPALA



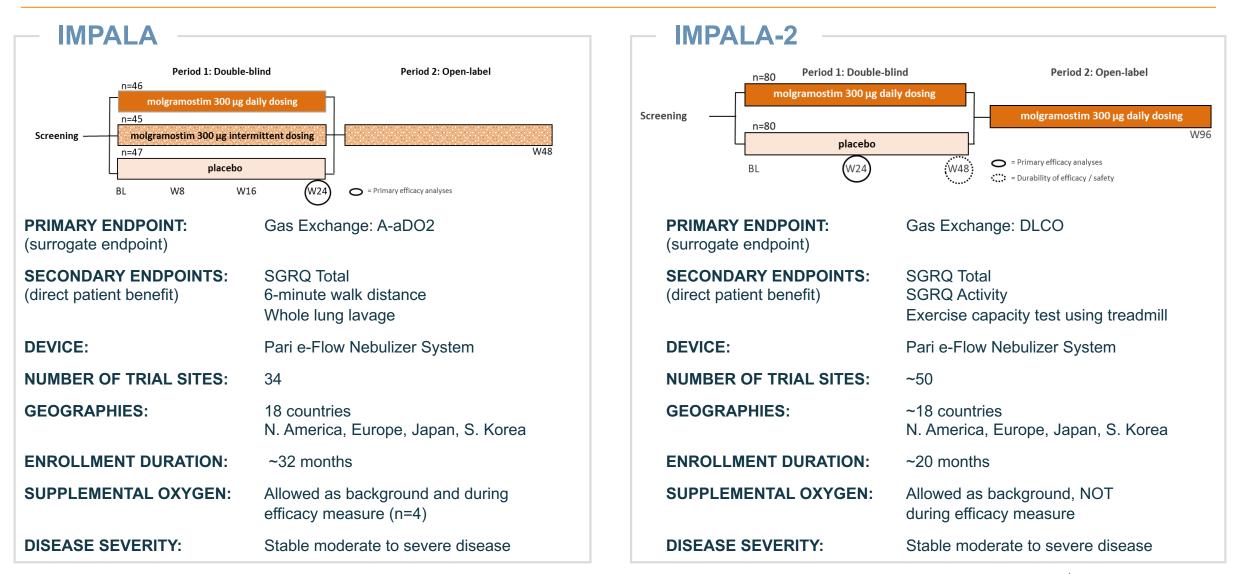
- Change from baseline in DLCO
  - 90% powered to detect 5.7% predicted difference with standard deviation of 11

- SGRQ Total Score
- SGRQ Activity Score
- Exercise capacity using treadmill test

IMPALA-2 is being conducted at ~50 sites across ~18 countries. Patients needing whole lung lavage will have procedure prior to screening.



# **Clinical Trial Design: IMPALA vs. IMPALA-2**





#### Molgramostim Regulatory Landscape

#### **MOLGRAMOSTIM IN aPAP REGULATORY DESIGNATIONS**

- Orphan Drug Designation, Europe (eligible for 10 years exclusivity)
- Orphan Drug Designation, US (eligible for 7 years exclusivity)
- Fast Track Designation, US
- Breakthrough Therapy Designation, US
- Innovation Passport Designation, UK
- Promising Innovative Medicine Designation, UK

#### IMPALA-2

 Trial design endorsed by regulatory authorities in the US, Canada, Japan, South Korea, and the countries in Europe where the trial is being conducted

#### **BIOLOGIC EXCLUSIVITY**

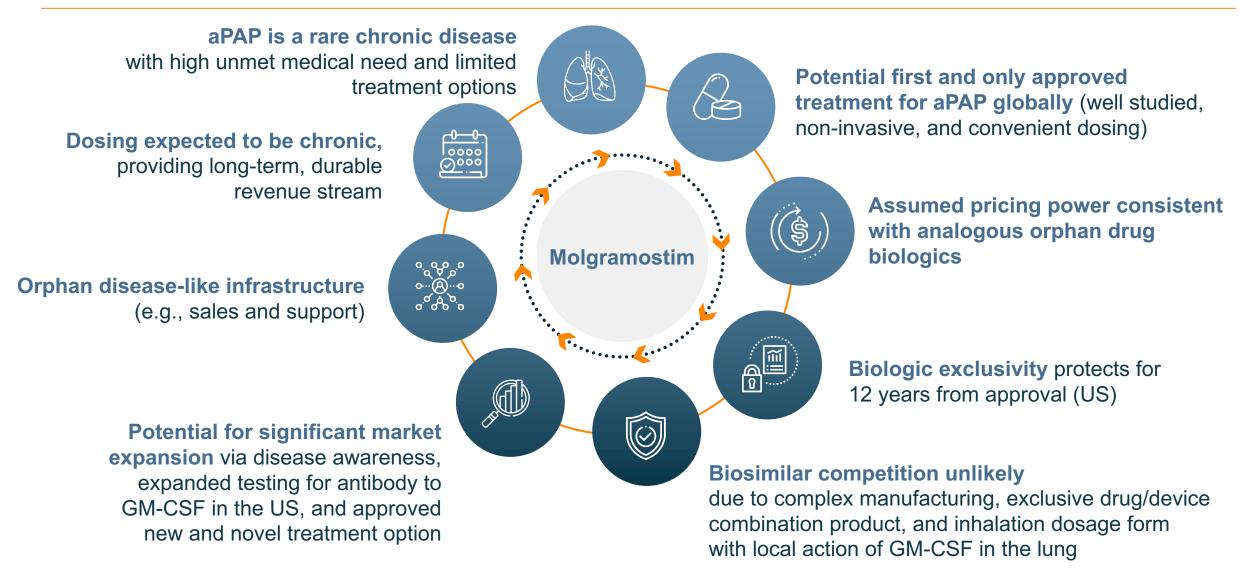
 Upon Biologics License Application (BLA) approval FDA would grant 12 years marketing exclusivity



# **Commercial Outlook**



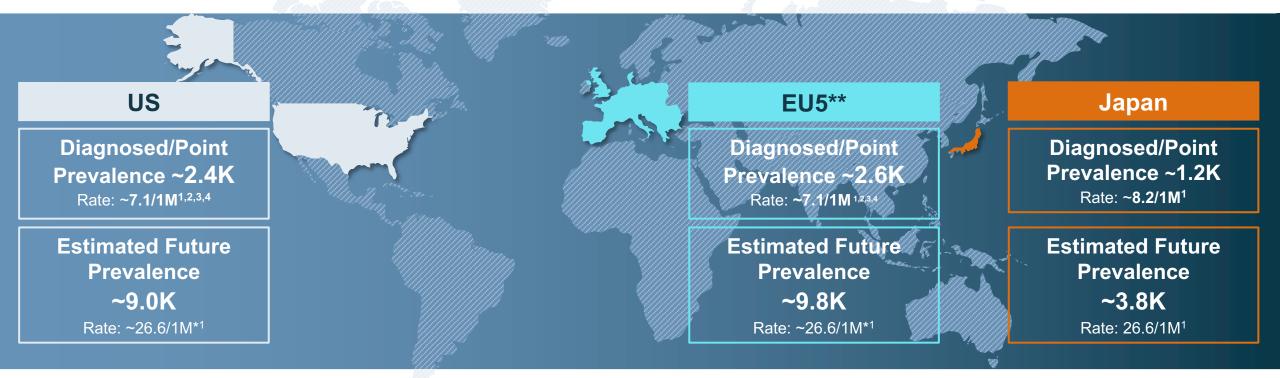
# **Significant Global Commercial Opportunity**





# **Current Market Opportunity is Robust and has Significant Potential for Growth**

Current projected patient population is ~6K. With increased anti-GM-CSF antibody testing, the potential addressable population could be greater than 20K



#### Diagnosed prevalence expected to grow given anticipated increased awareness and market shaping efforts with a new approved agent

Sources: 1. Kitamura et al (2019); 2. McCarthy et al, (2018); 3. Medicare FFS and IBM Marketscan (2019) - Trinity EvidenceFirst Analysis; 4. Campo et al, (2013); \*High diagnosed prevalence rate in the Niigata region (Kitamura et al., 2019 - 26.6/1M) of Japan can be used as a proxy for true prevalence given high rates of GM-CSF antibody testing \*\*EU5: France, Germany, Italy, Spain, UK



#### In Japan, a Simple Blood Antibody Test is Routinely Performed to Diagnose aPAP



- Research advances have led to the development of a highly effective, simple blood test that can diagnose aPAP
- 100% sensitivity and 100% specificity
- Distinguishes aPAP from other respiratory diseases
- Not yet widely available in the US and EU
- Once widely available in the US and EU, it could improve accuracy and reduce time to diagnosis

### Analog: Pulmozyme<sup>®</sup> (dornase alpha)

# Pulmozyme®

- Prototype inhaled biologic
- Approved by the FDA in 1993
- No biosimilar available

Pulmozyme is a registered trademark of Genentech

# Financials



#### Well capitalized

- ~\$134M in cash (as of 9/30/22)
- Cash runway extends ~18-months beyond anticipated IMPALA-2 top line results
- Strong investor support with coverage from 6 equity research analysts

#### **ANALYST COVERAGE**

Evercore ISI	Liisa Bayko, MSC, MBA
H.C. Wainwright	Andrew Fein
Jefferies	Suji Jeong, PhD
Ladenburg Thalmann & Co.	Michael Higgins
Oppenheimer	Francois Brisebois
Piper Sandler	Yasmeen Rahimi, PhD

# Financial Highlights



#### **Investment Thesis**



The molgramostim in aPAP clinical program has a high probability of success

As a novel inhaled biologic, molgramostim has the potential for a long-term, durable revenue stream



Significant global commercial opportunity



Strong balance sheet – funded through 2025





