



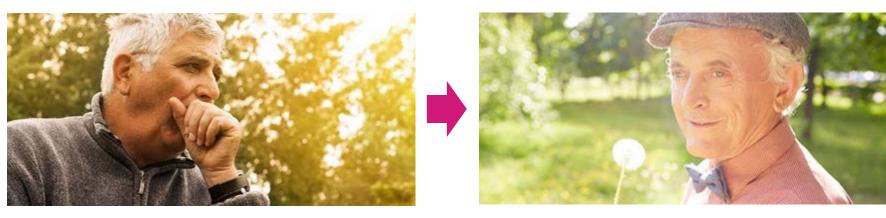




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Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause the Company's actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. These risks, uncertainties and other factors include those under "Risk Factors" in the final prospectus filed with the Securities and Exchange Commission (the "SEC") on April 28, 2017 relating to the Company's Registration Statement on Form F-1 and in its other reports filed with the SEC. Forward-looking statements represent the Company's beliefs and assumptions only as of the date of this presentation. Although the Company believes that the expectations reflected in the forward-looking statements are reasonable, it cannot guarantee future results, levels of activity, performance or achievements. Except as required by law, the Company assumes no obligation to publicly update any forward-looking statements for any reason after the date of this presentation, or to conform any of the forward-looking statements to actual results or to changes in its expectations.





Clinical-stage biopharma focused on developing & commercializing innovative therapeutics for treatment of respiratory diseases with significant unmet need

Inhaled dual inhibitor of enzymes PDE3 and PDE4

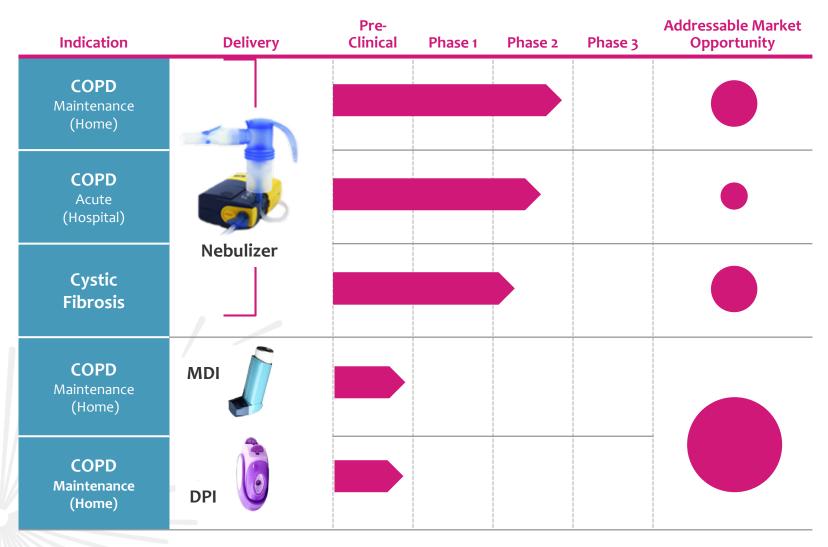
RPL554

Current Focus: COPD and CF

Potential first novel class of bronchodilator in decades
Bronchodilator + anti-inflammatory agent in single compound

## **RPL554: Rich Product Pipeline**





RPL554 also has applications in other significant respiratory diseases such as asthma.

### **Clear Success Drivers**





- Large patient population
- Significant unmet medical need
- Little innovation in COPD

Significant

Market opportunity



- Robust clinical data
- validated endpoints (FEV1)
- 10 P1 and P2a trials,
   400+ subjects treated

Clear, efficient pathway to

**Approval** 



- Significant KOL interest and support
- Novel Mode of Action

Strong potential for Adoption



- Multiple respiratory indications
- Global commercialization rights
- Near term Phase 2b data

Significant outlook for Growth

## **COPD:** Devastating Disease, Affecting Many





**CAUSES Smoking** 



Inflames and constricts airways (bronchioles) and can damage alveoli

**PROGRESSIVE DISEASE** 

No cure



"Take a deep breath, blow out 20% now walk around, holding the rest forever." **COPD Sufferer** 



## **Affects Many**

**Increasing** prevalence **384M** global sufferers 3rd leading cause of death in U.S.

Sources: IMS, CDC



### **Very Costly**

Many exacerbations and hospitalizations **~\$50B** projected annual medical costs by 2020 (U.S. alone)

\$10B+ annual global sales of COPD drugs

# **COPD Sufferers Require Maintenance** and Acute Treatment



## Maintenance (Home)



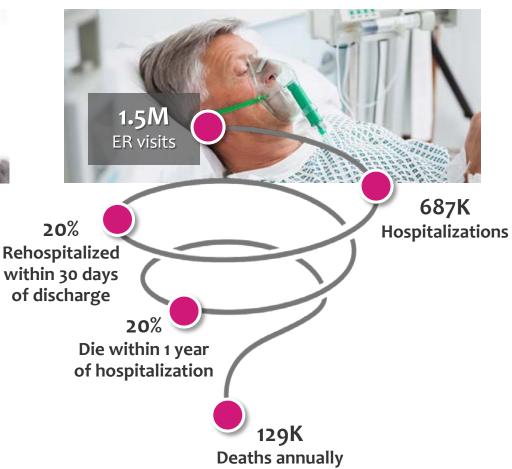
### U.S. alone: 24M living with COPD

- 15M diagnosed and under treatment
- Approximately 2M severe/very severe

### **Treatment goals:**

- Improved lung function
- Improved quality of life
- Prevent exacerbations

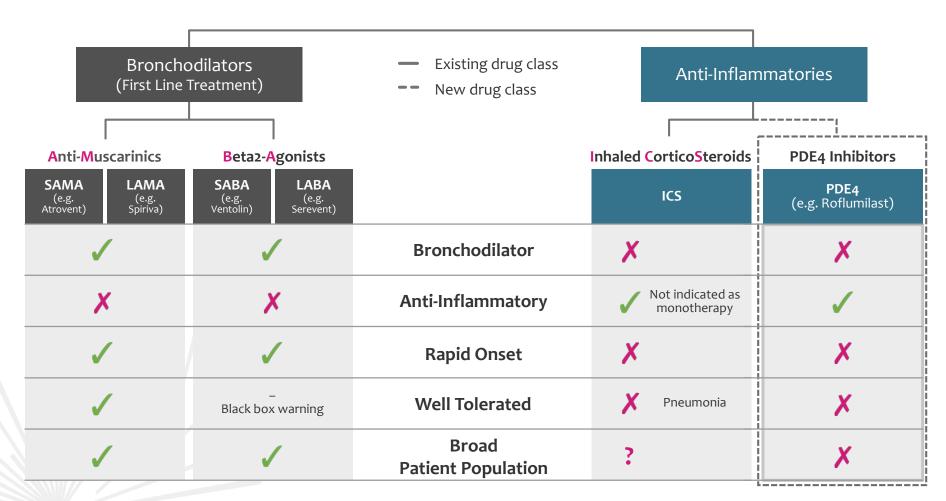
## **Acute (Hospital)**



Note: U.S. only data

# **Current Therapies: Little Innovation and Many Limitations**

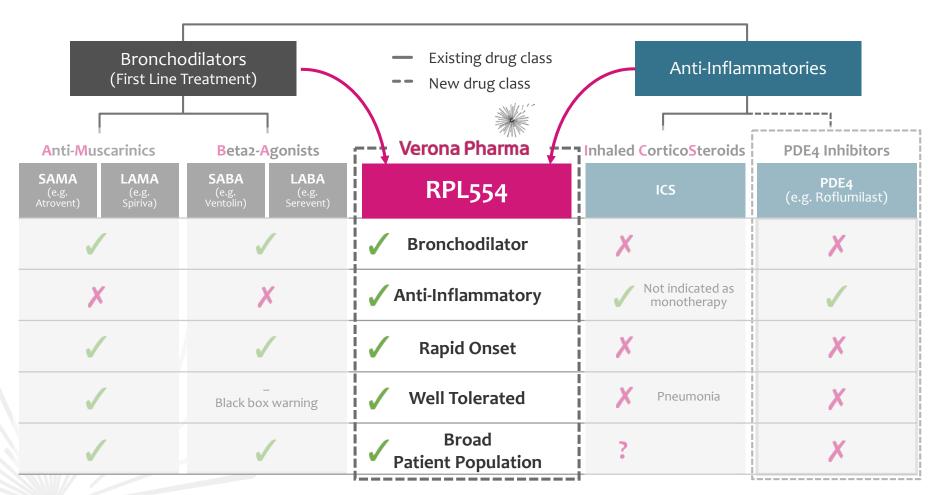




Many patients treated with approved COPD drugs/combinations do not experience significant improvements in quality of life and continue to suffer from significant symptoms

# RPL554: Potential to Address Limitations of Current Therapies





Many patients treated with approved COPD drugs/combinations do not experience significant improvements in quality of life and continue to suffer from significant symptoms

# RPL554 First-in-Class Candidate: Bronchodilator and Anti-inflammatory in a Single Compound



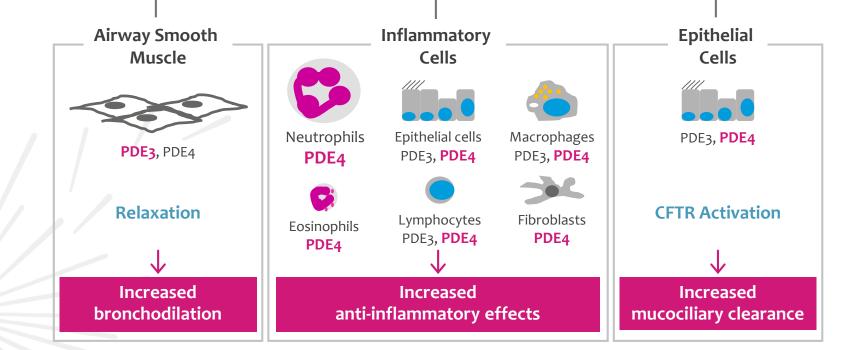
**RPL554**Dual **PDE3** and **PDE4** enzyme inhibitor

Impacts 3 Key Mechanisms in Respiratory Disease:

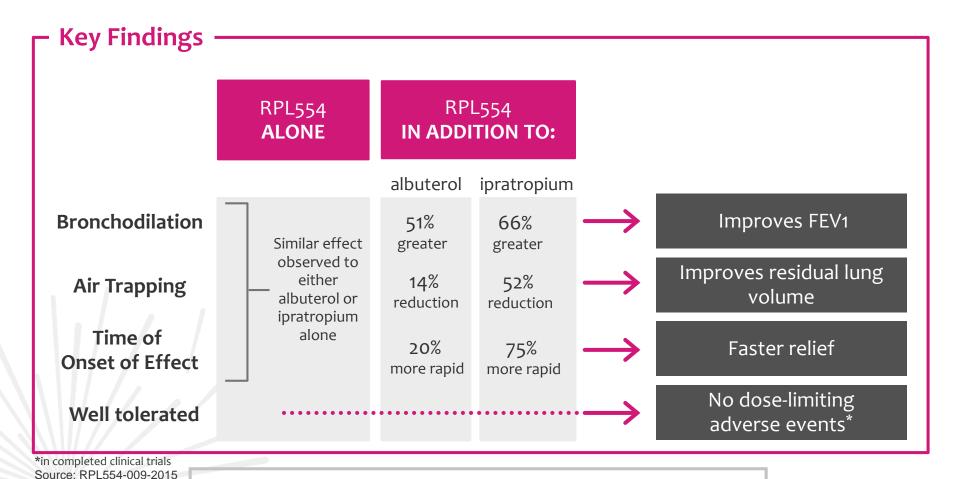








# RPL554: Significantly De-Risked Add-on Effect Reproduced in Two Independent Studies



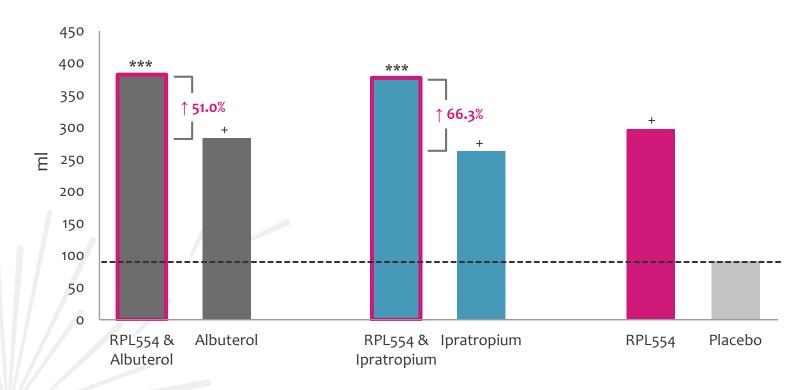
Phase 1 and 2a: 10 Clinical Trials, 324 Subjects

# RPL554: Significantly Improves Lung Function in COPD Patients



### Peak Change from Baseline in FEV<sub>1</sub>(ml)

N=36



Source: RPL554-009-2015

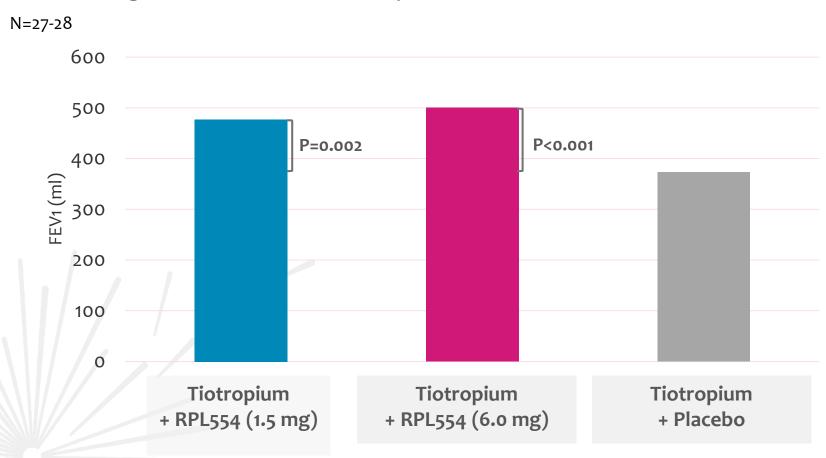
<sup>+</sup> p<0.001 vs placebo

<sup>\*\*\*</sup> p<0.001 vs. albuterol or ipratropium alone

# RPL554: Significant Additional Bronchodilator Response when Inhaled on Top of Tiotropium (Spiriva)



## Peak Change from Baseline in FEV<sub>1</sub> (ml) on Day 3



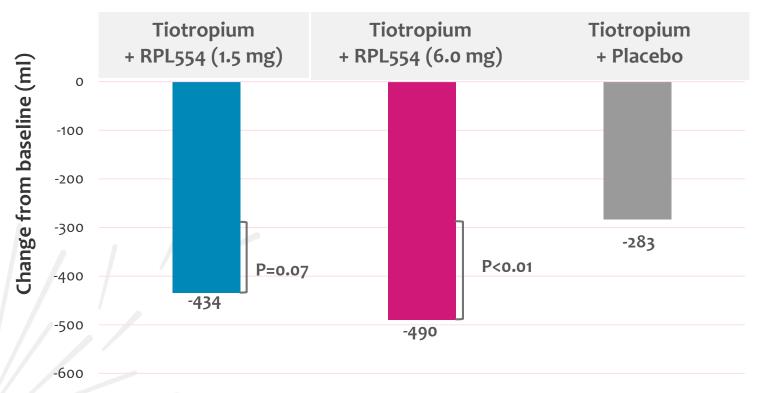
Source: RPL554-CO-202 P values vs placebo

# RPL554: Marked Reduction in Hyperinflation, Residual Volume (RV, air trapping) as Compared to Tiotropium Alone



### Reduction in Hyperinflation (ml) on Day 3

N=27-28



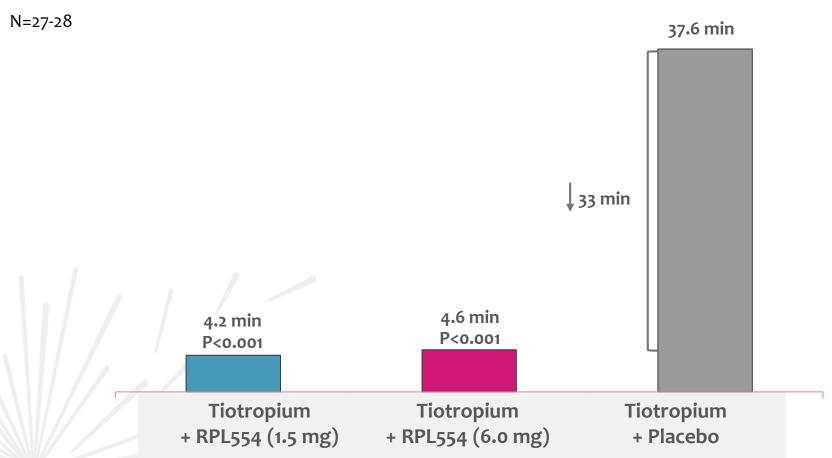
Reduction of hyperinflation is typically correlated with improvement of shortness of breath

Source: RPL554-CO-202 P values vs placebo

# RPL554: Combination Increases Speed of Onset of Bronchodilator Effect



Median Time to Onset (≥10% improvement in FEV₁; mins) on Day 3



Reinforces the potential of RPL554 in treating acute exacerbations of COPD

Source: RPL554-CO-202 P values vs placebo

# Verona Pharma

## **RPL554: Well-Tolerated in Completed Clinical Trials**

	Placebo (n=31)	RPL554 (n=31)	RPL554 + Albuterol (n=31)	Albuterol (n=32)	RPL554 + Ipratropium (n=33)	Ipratropium (n=32)
Any Treatment Related TEAE	8 (25.8%)	5 (16.1%)	8 (25.8%)	11 (34.4%)	10 (30.3%)	6 (18.8%)
Cough	4 (12.9%)	3 (9.7%)	5 (16.1%)	7 (21.9%)	6 (18.2%)	2 (6.3%)
Dizziness	1 (3.2%)			2 (6.3%)	1 (3.0%)	1 (3.1%)
Dyspnea		1 (3.2%)		2 (6.3%)	1 (3.0%)	1 (3.1%)
Headache	1 (3.2%)	1 (3.2%)		1 (3.1%)		
Palpitations	1 (3.2%)					
Rhinorrhea	2 (6.5%)		1 (3.2%)			

Source: RPL554-009-2015, COPD add-on study; number of subjects with adverse reactions following single dosing of RPL554 with the suspension formulation; events with an unlikely, possible or definite relationship are presented.

#### **Across All Studies**

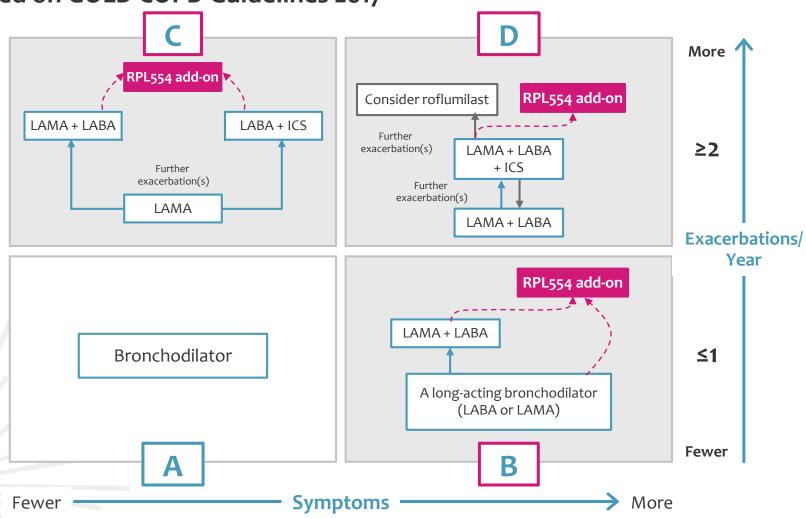
No SAEs or AEs of concern

No PDE4 inhibitor-like AEs

# RPL554: Potential to Improve Standard of Care Treatment for More Severe Patients



### Based on GOLD COPD Guidelines 2017



## **CF: A Devastating Orphan Disease**





### **Population:**

- Most common fatal inherited disease in U.S.
  - Incidence: ~70K globally; ~30K patients in U.S.

#### Cause:

Mutations in gene that encodes CFTR protein

### **Symptoms:**

 Inability to clear thickened mucus, impaired lung function and persistent lung infection

#### **Consequences:**

- Frequent exacerbations and hospitalization
- No cure
- Median age of death 37 years

RPL554: Potential to Provide Treatment Independent of CF Mutation Status

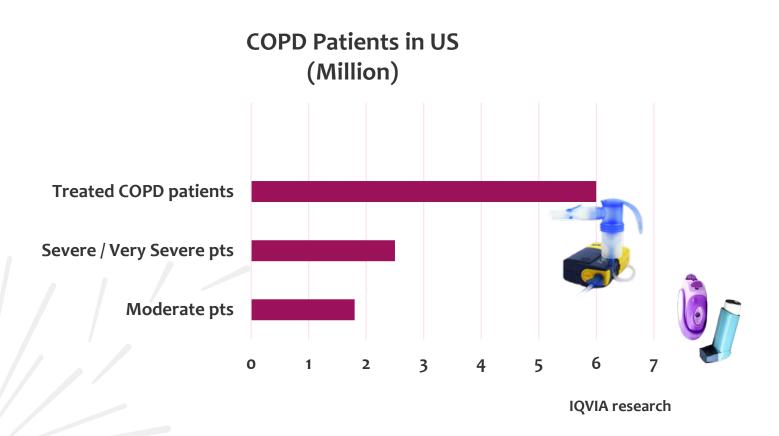




Study	Study Design	Data/Milestones				
Studies completed – top line data reported Sept 2017						
COPD Phase 2a: Add-on Therapy to Tiotropium	<ul> <li>30 subjects</li> <li>Age: 40-75; moderate-severe COPD</li> <li>2 doses + placebo, 3-way cross- over</li> </ul>	• FEV1 improvement of 130mL on top of Spiriva				
COPD Phase 1: PK Study (Determine Oral Bioavailability)	<ul><li>12 healthy subjects</li><li>Single dose</li></ul>	<ul> <li>Low oral bioavailability</li> </ul>				
Ongoing						
CF Phase 2a: PK & PD Trial in Adult CF Patients	<ul><li>Up to 10 patients</li><li>Single dose</li></ul>	<ul><li>Underway</li><li>Top-line data in 1H18</li></ul>				
COPD Phase 2b, 4 week: Maintenance Treatment; No background therapy	<ul> <li>Approximately 400 subjects</li> <li>Age: 40-75; moderate-severe COPD</li> <li>4 doses + placebo, double-blind</li> </ul>	<ul><li>&gt;50% enrolled</li><li>Top-line data now mid-18</li></ul>				

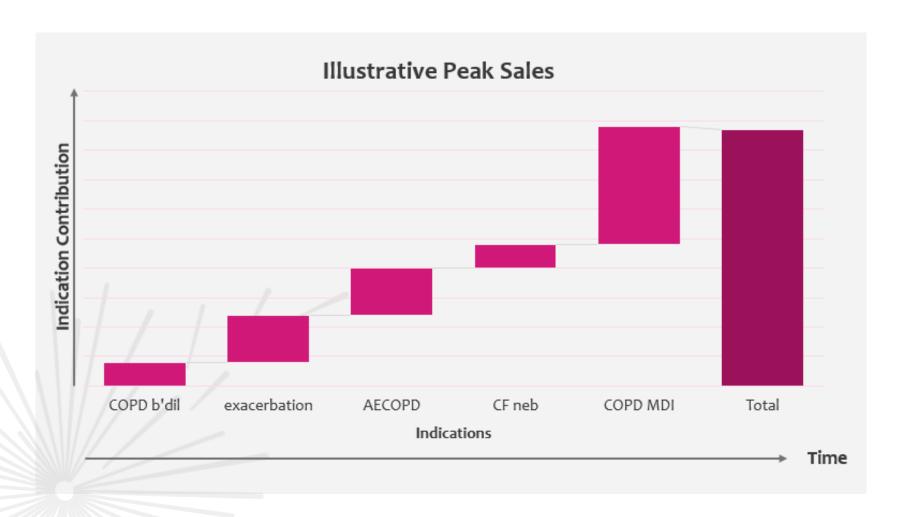
# RPL554: Potential to Improve Standard of Care Treatment for Millions of Patients





# RPL554: Targeting Multiple Indications Allows Earlier Access to Large Markets





## **RPL554 IP summary**



#### **Verona Pharma Patents:**

- Composition of Matter granted US, EU, Japan, other; expires 2020
- Polymorphs granted US, EU, Japan, other; expires 2031
- Formulations, combinations, salt forms, use, manufacturing: granted and pending in US, EU, and other territories; expiries 2031 – 2036
- Additional IP opportunities being explored

Verona Pharma has Global rights

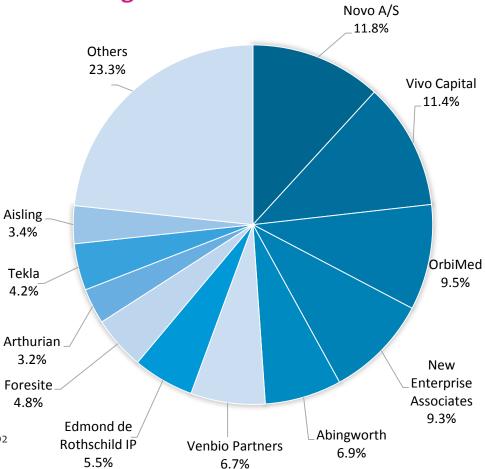
## **Financial Overview and Shareholder Register**



#### **Financial Overview**

Cash and Cash Equivalents	\$114.5M <sup>1</sup> (as of 09/30/2017)
Operating Expenses	\$25.6M¹ (9 Months Ended 09/30/2017)
Total Equity	\$114M <sup>1</sup> (as of 09/30/2017)





<sup>1</sup>Exchange rate used (US dollars per pound sterling): September 30, 2017 \$1.3402

<sup>2</sup>Based on 126m fully diluted shares, \$15.35 ADS price on September 29, 2017

## **Long-Term Strategy**

Acquire or in-license product candidates for the treatment of respiratory diseases

Seek strategic collaborative relationships

Rapidly advance the development of nebulized RPL554 for COPD



Pursue development of RPL554 in combinations and in other forms of respiratory disease Develop RPL554 for CF

Develop DPI and MDI formulations of RPL554

## **Experienced Management Team and Board**



### Management

Jan-Anders Karlsson, PhD Chief Executive Officer

Piers Morgan, MA, ACA Chief Financial Officer

Kenneth Newman, MD, MBA Chief Medical Officer

Richard Hennings, BSc Commercial Director

Peter Spargo, PhD SVP CMC

Claire Poll, LLB Legal Counsel

Desiree Luthman, DDS **VP Regulatory Affairs** 

#### S\*BIO RHÔNE-POULENC RORER ASTRA

























#### **Board**

#### David Ebsworth, PhD

• Ex CEO Vifor Pharma; CEO Galenica

#### Jan-Anders Karlsson, PhD

CEO Verona Pharma

#### Ken Cunningham, MD

- Chair Abzena plc
- Ex Chair Prosonix; CEO SkyePharma

#### Rishi Gupta, JD

• Private Equity Partner, OrbiMed

#### Mahendra G. Shah, PhD

- Managing Director, Vivo Capital
- Ex Chair CEO, NextWave Pharmaceuticals, First Horizon Pharma

#### Andrew Sinclair, PhD

• Partner and Portfolio Manager, Abingworth

#### Vikas Sinha, CPA

• Ex EVP, CFO, Alexion

#### Anders Ullman, PhD, MD

• Ex Head R&D, Baxter Biosciences; EVP R&D, Nycomed Pharma

### In team's prior lives ...

involved in successful development / commercialization of many of the drugs used to treat COPD











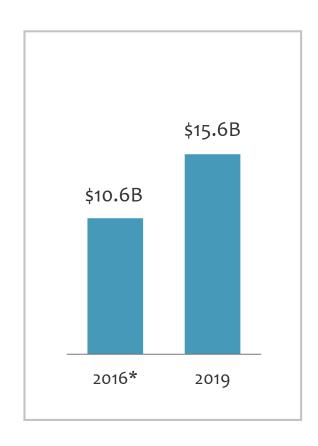
## **Large Growing COPD Drug Market**



Top U.S. COPD Drug Sales, 2016\*

Drug	Type	Launch	Expiry	Sales (2016)*
Spiriva	LAMA	2002	2018	\$1,900M
Advair	LABA / ICS	1998	2016	\$1 <b>,</b> 300M
Symbicort	LABA / ICS	2000	2014	\$700M
Atrovent / Ipratropium	SAMA	2005	2007	\$200M
Breo Ellipta	LABA	2013	2021	\$100M
Daliresp	PDE4	2011	2020	\$131M
Brovana** (neb only)	LABA	2006	2021	\$423M
Perforomist** (neb only)	LABA	2007	2021	\$178M

#### **WW COPD Sales**



Source IMS

<sup>\*</sup>Year from Q2 2016

<sup>\*\*</sup>Only approved in COPD, any off-label use in asthma expected to be limited