



Company Presentation

July 2022

AIM: POLB OTCQB: POLBF

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Building a Leading Infectious Diseases Company



Spun out from



Deep roots in infectious disease & the clinical trials business

Fully funded £25m raised at IPO July 2021



Long term shareholders including leading institutions

Cathal Friel 7.28%

Schroders Investment 5.13%

Poolbeg has a unique capital light & early monetisation model

Only similar company is Evotec in Germany which has a \$4.1bn market cap. Evotec also has deep roots in the clinical trials business

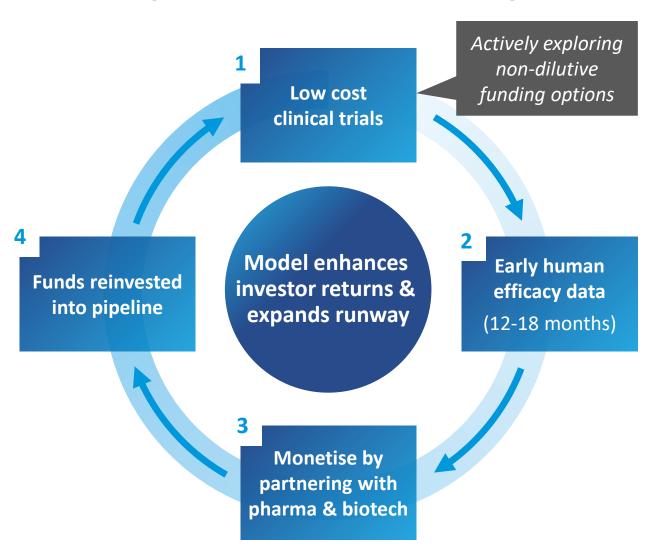
Targeting booming infectious disease market Expected value >\$250bn by 2025 **Experienced team** have previously created c. \$1bn in shareholder value

- Rapidly expanding portfolio of assets
- Self funding business model out-licensing early and often
- Focus on European and N. American rights can sell Asian & other market rights for cash
- Becoming a one-stop-shop for big pharma and biotechs seeking infectious disease assets

Rapid Development & Frequent Out-Licencing



Developing multiple assets at once - reducing risk



Recent infectious disease deals

GSK acquires Affinivax

\$2.1b upfront + \$1.2b follow-on, May 2022

Pneumococcal vaccine & vaccine platform (Phase II)

Pfizer acquired ReViral

up to \$525m, April 2022

Respiratory Syncytial Virus (RSV) (Preclinical – Phase II assets)

Merck acquired Oncolmmune

\$425m upfront, Nov 2020 COVID-19 (Phase III)

Pfizer's Valneva deal

\$130m upfront + \$188m follow-on, April 2020

Lyme Disease (Phase II)

Bav Nordic licence Chinese rights to Nuance Pharma

\$12.5m upfront + \$200m follow-on, Mar 2022

Respiratory Syncytial Virus (RSV) (Phase III ready)

The Year in Review – 12 months since IPO



Executing on our strategy – momentum continuing to build

POLB 001

LPS challenge trial commencement imminent

Data expected by year end with monetisation to rapidly commence thereafter



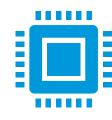
Multiple deals completed

Expansion & diversification of portfolio – reducing risk & increasing upside potential

- ✓ POLB 002
- ✓ POLB 003 + 5 other vaccine candidates under review
- ✓ Oral Vaccine Delivery Platform

2 Artificial Intelligence deals signed

Identify new drug targets & treatments for RSV & Influenza



Commenced trading on US OTCQB market

March 2022





Well capitalised with a strong cash balance of £20.9m at 31 Dec 2021

Low cash burn & significant financial resources to support growing pipeline

Exploring non-dilutive grant funding

Expanding Pipeline of Assets



Product pipeline

| Product Candidate | Program | PreClinical | Phase 1 | Phase 2 | Phase 3 |
|-------------------|---|--------------------------------|---------|-----------|---------|
| POLB 001 | Severe Influenza treatment | LPS trial data expected Q4 '22 | | u o | |
| POLB 002 | Respiratory virus infections treatment & prophylactic | | | onetisati | |
| POLB 003 | Melioidosis vaccine* | | | Σ | |

Programmes & Platforms



Pre-IPO

Artificial Intelligence
Drug Discovery
Programme
Respiratory Syncytial
Virus
ONETHREE
BIOTECH
Outputs - H2 2022

Oral Vaccine
Delivery Platform

Developing vaccines for multiple indications

AnaBio
Technologies

Targeting significant upfront payments followed by milestone payments & royalties

Vaccine Discovery Platform

Identify vaccine candidates from naturally occurring immune response

PredictViralTM

Identify patients at risk of developing severe disease early

In active discussions for a range of other assets

Post-IPO

POLB 001 - Severe Influenza Treatment

Clinical stage potential blockbuster immunomodulator

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Potential transformational treatment

- Positive Phase I studies completed
 - Safe & well tolerated
- Agnostic to viral strain
- Shelf-stable oral drug
 - Ideal for stockpiling

How does it work?

- Flu virus activates the inflammatory immune pathway, p38 MAP Kinase
- In severe flu p38 is over-activated causing a potentially deadly cytokine storm
- POLB 001 blocks p38 stopping the tissue damaged caused by the cytokine storm

Worldwide rights for all uses in humans

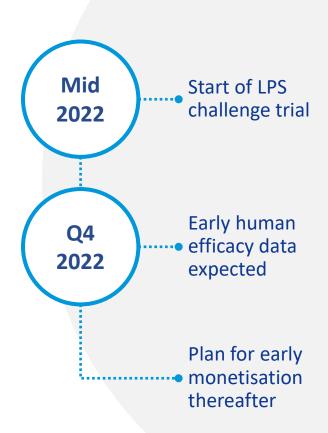
- Patent protected until 2038
- Expanding IP
- Exploring further disease indications = increase value



Large addressable market

- Potential peak sales \$275m+ in influenza alone in Europe & US
- No suitable drug on the market





POLB 001 – Successful Phase I study already completed

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Safety and tolerability demonstrated – rapid progression to challenge study

Phase 1 Key Outcomes



Predictable and durable response

Data collected in this study demonstrate that POLB 001 administration produces a potent and long-lasting inhibition of p38 MAP-kinase activity in humans



Safe and well-tolerated

After administration of single doses up to 600 mg and repeated doses up to 150 mg, there were neither serious nor limiting adverse events to POLB 001



LPS Ex-Vivo

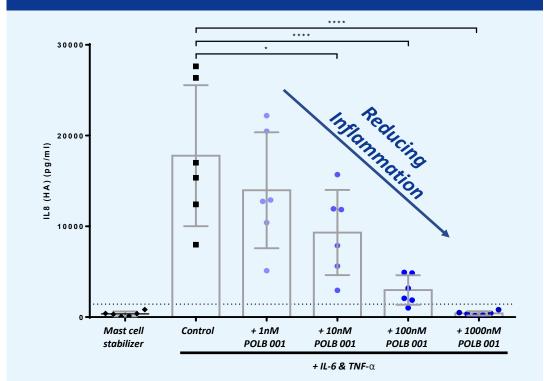
At a 150mg twice daily dose, an inhibition of LPS-induced TNF-a between 70 & 90% was achieved



Eliminated class-associated tox issues

Short-term use of p38 for acute inflammation overcomes tox concerns associated with long-term treatment with p38 inhibitors for chronic inflammatory conditions (e.g. Arthritis)

POLB 001's ability to interrupt the feedback loop of inflammatory mediators that result in a 'cytokine storm' make it an ideal candidate to reduce disease severity for those most at risk



To simulate hyperinflammatory conditions, immune cells were treated with IL-6 and TNF- α , and IL-8 was used as a marker to measure resulting inflammation. The addition of POLB 001 reversed the inflammatory response in a dose dependent manner.

POLB 001 – p38 inhibitor for severe influenza



The challenge trial will use LPS as a surrogate for severe influenza to evaluate the efficacy of POLB 001

LPS Trial Objective: To evaluate the effect of POLB 001 on inflammatory responses following an intradermal <u>and</u> an intravenous LPS challenge in healthy volunteers

Trial Design

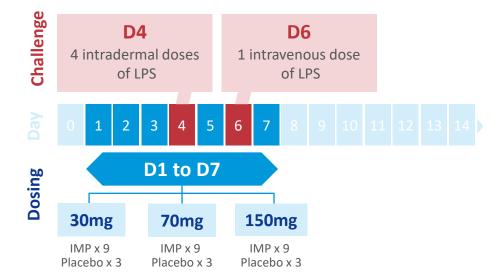
- A randomized, double-blind, placebocontrolled, multiple dose, inflammatory challenge trial in healthy volunteers
- Three cohorts with escalating dose, 12 volunteers per cohort
- POLB 001 or placebo dosed orally, twice daily for 7 consecutive days

1. Patient Profile

Healthy volunteers without a history of inflammatory diseases, anti-inflammatory medicines use or other inflammatory complications



2. Trial design



3. Endpoints

Intradermal LPS challenge

- Skin response by imaging
- Blister exudate analysis
- Skin punch biopsy
- Safety & tolerability

Intravenous LPS challenge

- Bloods (cytokines, vascular markers, CRP)
- Ex-vivo LPS response
- Safety & tolerability (inc. vital signs, AE's, ECG, Haematology)

POLB 002 - A global need for respiratory virus infection products



Most respiratory virus infections cannot be treated

15%

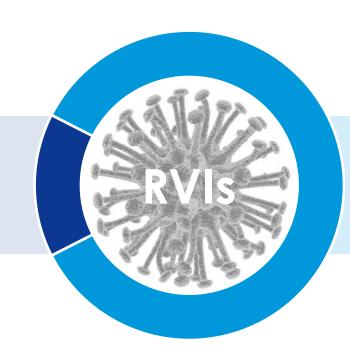
INFLUENZA

VACCINES

Protection variable

ANTI-VIRAL THERAPIES

Require diagnosis of virus type



85%

NON-INFLUENZA RVIs

FEW AVAILABLE TREATMENTS

"A broad spectrum antiviral that gets around the fact that we don't always know what we are treating would be game changing"

US Key Opinion Leader

POLB 002 - Respiratory Virus Infection Immunotherapy



First-in-class, broad spectrum, RNA-based

- Single dose, intranasal, dual action prophylactic & therapeutic
 - Triggers nasal cells into an antiviral state to protect against the virus
 - Blocks the virus from replicating
- Late preclinical stage with extensive preclinical data package
 - No reduction in efficacy or safety issues after repeat dosing
- US & European patents granted & continuing to expand

Respiratory Virus Infections

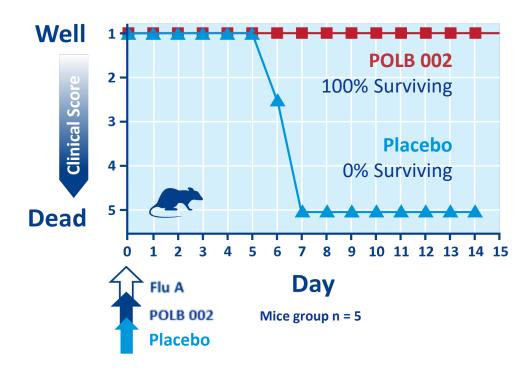
5-20%
global
population
infected
by seasonal
outbreaks

3M+
annual deaths
worldwide

Top 5
global cause
of death

Pandemic Potential

In-vivo Influenza A challenge

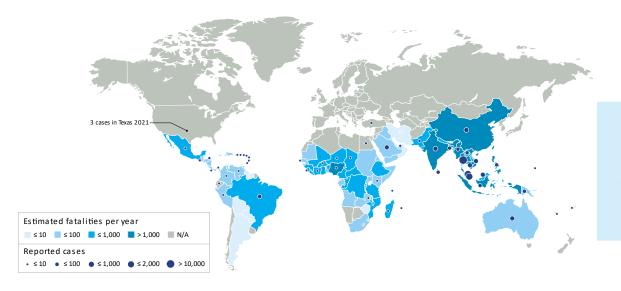


POLB 003 – Melioidosis Vaccine

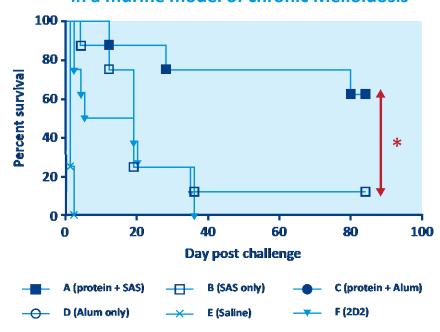


Potential for non-dilutive funding

- Late pre-clinical stage
- Wellcome Trust funded early development
- Global incidence of Melioidosis rising due to climate change
- CDC designated Tier 1 Select Agent biothreat
- Antibiotic resistant
- Under the agreement with UCD, 5 other vaccine programs are also being evaluated



POLB 003 significantly enhances survival in a murine model of chronic Melioidosis



165,000 estimated cases per annum

54% of cases are fatal

vaccines available

Additional vaccine candidates from UCD

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Option agreement for 5 additional vaccine antigen candidates



O157 E.coli/STEC/ VTEC

- Lead antigen candidates selected
- Powerful toxin can severely harm children & elderly and leave lasting kidney damage



Acinetobacter baumannii

- Multiple antigens identified
- Prevalent issue in US Defence and healthcare settings, resulting in burdensome management of complications



Pseudomonas aeruginosa

- Multiple antigens identified
- Leading cause of morbidity and mortality in cystic fibrosis
- Interest area for National Institute of Health (NIH)



Klebsiella pneumoniae

- Lead antigen candidates selected
- Significant cause of hospital-acquired infections with large impact on health budgets



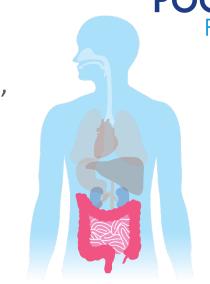
Burkholderia cepacia complex

- Lead antigen candidates selected
- Poses threat to immunocompromised patients in care settings such as Cystic Fibrosis patients

Oral Vaccine Delivery Platform

Exclusive licence to encapsulation technology for vaccine generation

- Developing oral vaccine delivery platform that generates 'mucosal immunity'
 - Preventing pathogens from infecting the body
 - Prevent transmission of disease
- Highly attractive market
- Multiple disease indications



Oral vaccines reduce manufacturing challenges, enhance vaccine uptake & can create mucosal immunity

Mass Vaccination

Pandemic has shown injections cannot give global protection

Antigenic Drift

Prime boost approaches can give cross antigen specificity

No needles

Needle phobia has been shown to reduce vaccine uptake

Vaccine Hesitancy

People are more willing to take an oral product

Easy Administration

Healthcare staff not needed

Cold Chain

Easy distribution and enhanced stability profile

Artificial Intelligence – revolutionising drug discovery



Pharmaceutical AI business is "heating up"

50% of global healthcare companies will implement Al strategies by **2025**

Investment in AI increase of 400% 2020 vs 2021



Al-designed molecules have the potential to leapfrog traditionally developed drugs on their way toward human testing



Investment in pharmaceutical Al



Sanofi Joins Al Gold Rush in €4.6B Drug

Discovery Pact with Exscientia LABIOTECH.eu

11/01/2022-

FINANCIAL TIMES

Investors bet on AI start-ups to turbocharge drug development Hannah Kuchler and Clive Cookson in London JUNE 11 2022

Artificial Intelligence: A Road to Faster and Better Drug Discovery? 28/09/2021. LABIOTECH.eu

Artificial Intelligence Drug Discovery Programme



Using AI to identify drug targets quicker & more cost effectively than previously possible

Ground breaking

innovation



First time

human challenge data analysed using AI*



Prioritise drugs

with existing Phase I safety data – reducing spend and risk

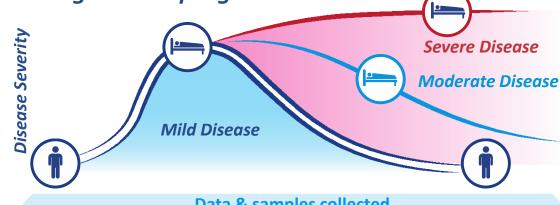


Identify drugs

that are more likely to succeed



Tracking disease progression



Data & samples collected

Clinical Data, Immunological Data, Digital Biomarkers

Influenza

- Deal signed with CytoReason March 22
- To identify new drug targets
- CytoReason work with 5/10 top global pharma including Pfizer, Roche, Sanofi





RSV

- Deal signed with OneThree Biotech Feb 22
- Identify new drug targets & treatments
- Stage 1 completed
- Outputs expected in H2 2022



16

*Directors belief

Key Upcoming Milestones & Opportunities



Multiple value inflection points in 2022 & beyond

POLB 001

LPS challenge trial commencement imminent

Data expected before year end 2022 – monetisation commences

POLB 002

Development plan underway

POLB 003

Complete in-licence & evaluation of 5 other vaccine programs

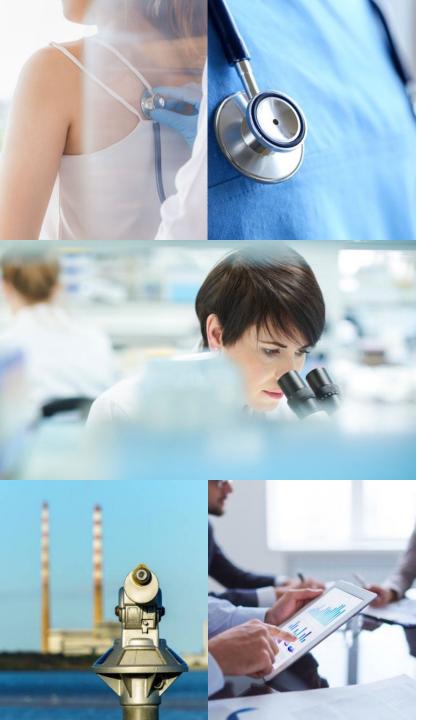
Oral Vaccine Delivery Platform - Development plan underway

RSV Al Drug Programme - Outputs expected in H2 2022

Influenza Al Drug Programme - Outputs expected in H1 2023

Non-dilutive funding - Applications progressing

IP Portfolio - Continuing to expand & strengthen





Appendix

AIM: POLB OTCQB: POLBF

Experienced Leadership Team



Cathal Friel Chairman



- Co-founder & shareholder in Amryt
 Pharma plc; leading London & Nasdaq
 orphan drug company
- Established Raglan Capital in 2007
- Founder & Chairman of Fastnet Oil & Gas plc which IPO'ed 2012
- Co-founder of Merrion Stockbrokers in Dublin in 2001









Jeremy Skillington CEO

- 19 years global industry experience: US, UK, Germany & Ireland
- BD & employee #3 at Inflazome. Sold to Roche in 2020, €380M + milestones; significant ROI to investors. Developing treatments for inflammatory diseases
- BD at Genentech (USA), Ethris (Germany). Co-founded & CEO of TriMod Therapeutics
- PhD in Biochemistry NUI Galway & Post-Doc at UC San Francisco







Ian O'Connell CFO

- Financial professional with healthcare & public markets experience
- Co-founder, VP Corp Dev & Board Observer at Open Orphan - led acquisition of hVIVO plc & RTO of Venn plc
- Worked with Cathal Friel & Amryt's senior management to establish Amryt Pharma plc
- Corporate finance at both Raglan Capital & Deloitte
- Member of Chartered Accountants Ireland





Deloitte.



Carol Dalton VP IR & PR

 Co-founder & VP Investor Relations & Public Relations at Open Orphan plc & Poolbeg Pharma plc

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- Managed multiple funding rounds of in excess of £47m
- Managed & maximised Open Orphan's worldwide media coverage in 2020
- Senior Associate at Raglan Capital
- BSc in Nutraceuticals with a focus on antimicrobial resistance









Patrick Ashe Non-Executive Director

- >30 years of experience in pharma & biotech
- BD at **Elan** plc for 16 years
- Co-founder and BD lead at Athpharma, AGI Therapeutics
 & Vidara
- BD at Horizon Therapeutics following acquisition of Vidara









Prof Luke O'Neill
Non-Executive Director

- Co-Founded Inflazome which was acquired by Roche in 2020 for €380m + milestones
- World-renowned immunologist & Chair of Biochemistry in the School of Biochemistry & Immunology at Trinity College Dublin
- Fellow, Royal Society & Royal Irish Academy Gold Medal for Life Science









Eddie Gibson Non-Executive Director

- 24 years' experience leading biopharma organisations
- Led many major European launches and creation & implementation of global access plans many therapy areas including virology
- Founder of Wickenstones, pharma market access consultancy







Experienced Team to Execute

Additional team members



CMO

- Industry leading CMO
- Expert in designing and implementing clinical trials
- Over 20 years experience in pharma & biotech with drug development focus
- Clinically experienced medical doctor
- Previously CMO for North American Nasdaq listed biotech company



Liam Tremble

Clinical Operations Project Manager

- BSc honours degree in Immunology, Masters in Translational Biology
- PhD on the role of the immune system in melanoma
- Joined hVIVO 2020, key strategist in Volunteer Delivery and Clinical
 Science Group departments







Alan Bell

Clinical Development Project Manager

- 14+ years experience in clinical development for Phase I-III drugs
- Published in inflammation pathway analysis, associated biomarkers
- Qualifications in Clinical Physiology, Respiratory Medicine, Human & Clinical Pharmacology







Ross Crockett

Financial Controller

- Extensive experience in senior finance positions in public listed companies incl. Amryt Pharma plc, Cove Energy plc, Fastnet Oil & Gas plc & Orogen Gold plc
- Member of Chartered Accountants Ireland







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Initial Scientific Advisory Board Members



Elaine Sullivan, PhD

- CEO of Dargle Therapeutics & Executive Chairman of Keltic Pharma
- 25 years of international experience working in Pharma and Biotech including as VP of Global External R&D at Eli Lilly
- Raised \$100m for Carrick Therapeutics as Founder
- NED at Open Orphan plc, IP Group plc, Active Biotech AB and Supervisory Board at Evotec AG







Prof Luke O' Neill

- Co-Founded Inflazome which was acquired by Roche for €380m in 2020
- World-renowned immunologist and Chair of Biochemistry in the School of Biochemistry and Immunology at Trinity College Dublin
- Fellow, Royal Society & Royal Irish Academy Gold Medal for Life Science







Daniel F.Hoft, MD, PhD

- Director of the Division of Infectious Diseases, Allergy & Immunology at Saint Louis University (SLU) School of Medicine
- Principal Investigator of SLU's Vaccine & Treatment Evaluation Unit, one of nine NIH centres
- 32 years experience in immunology and infectious disease







Booming Infectious Disease Market

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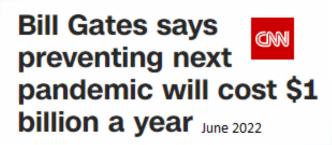
Vaccines, Therapeutics, Diagnostics

Market expected to exceed \$250bn by 2025 Big Pharma seeking products



2021 forecast: COVID-19 brings infectious disease R&D out of

the wilderness Dec 22, 2020





There will be another pandemic, infectious disease experts say. June 2, 2022



Capital Light & Early Monetisation – a model that works



The only other company with a similar model:



- Roots as a CRO, brings assets through Phase I & II
- Out-licence / partner with Big Pharma for significant upfronts + milestones + royalties



Evotec licence to Takeda

Significant upfront + \$160m milestones
per product + royalties, March 2021

RNA targeting

Evotec collaborate with Novo Nordisk

Significant upfront + €150m

development milestones per product +
royalties + sales milestones, Aug 2020

Kidney Disease

Evotec collaborates with Pfizer
Significant upfront + development &
sales milestones, Sept 2015
Fibrosis

Capital Light & Early Monetisation Model

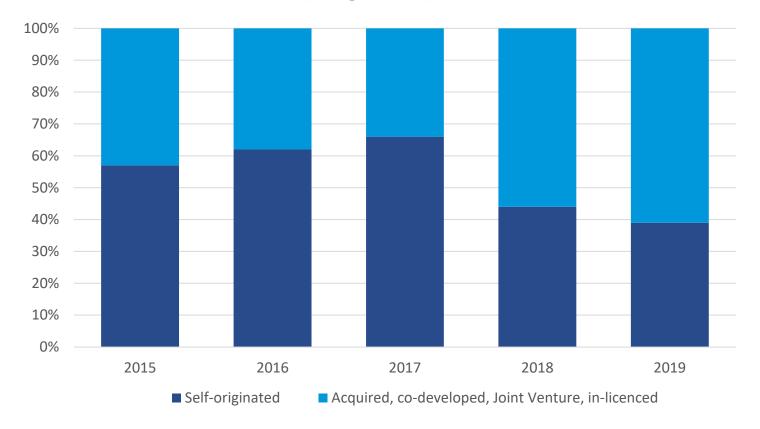


Big Pharma are looking to in-licence infectious disease products

More deals, less in house development

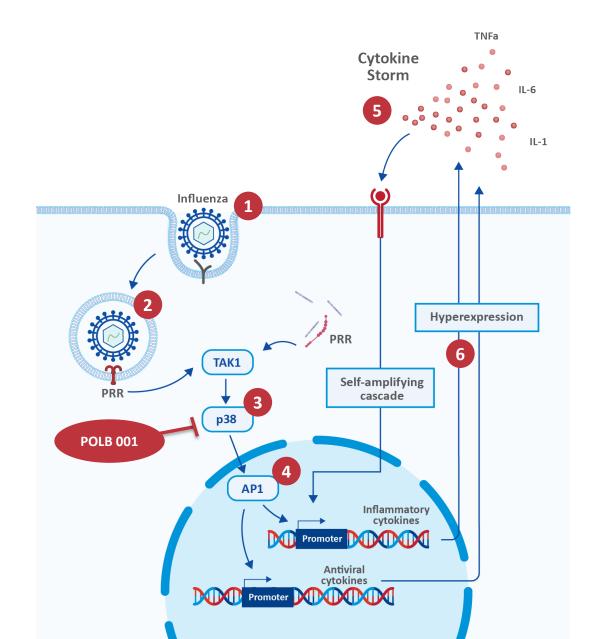
The trend for sourcing clinical candidates via in-licensing, acquisition or co-development is continuing to expand

Pharma developing less products in house



POLB 001 – Mechanism of Action





- 1 Influenza virus infects cells of the respiratory tract
- Pattern recognition receptors are activated by endosomal and cytoplasmic viral antigens
- 3 A signalling cascade involving p38 MAP Kinase results in activation of DNA promoters regulating the expression of inflammatory and antiviral cytokines

- 4 A high viral burden can activate hyperexpression of cytokines
- 5 Inflammatory cytokines act to self-amplify expression

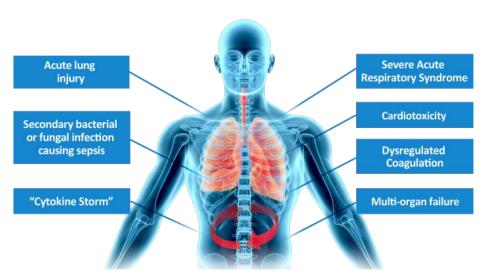
A positive feedback loop results in a cytokine storm, also known as hypercytokinaemia that can cause severe tissue damage including ALI and ARDS





What is p38 MAP Kinase?

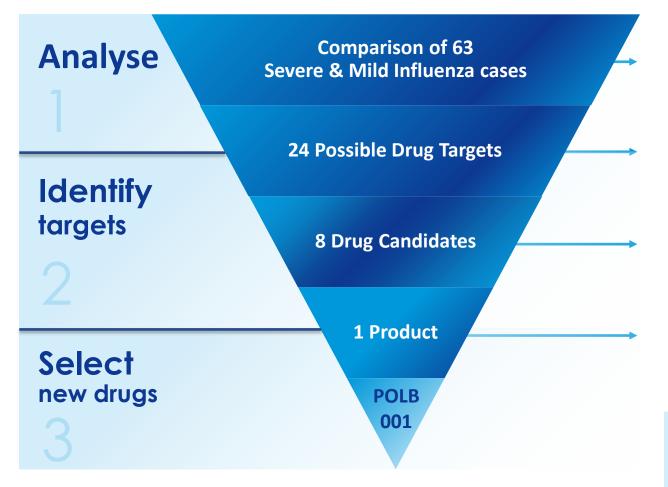
- Central role in regulation of pro-inflammatory signalling networks, cytokine synthesis in immune cells, and inflammatory diseases¹
- Responsive to stress stimuli² such as inflammatory cytokines
- Inhibition shown to effectively alleviate inflammatory diseases³ (e.g. arthritis)
- Our data shows an unexplored relationship between p38 MAP Kinase and pathogenic immune responses associated with severe Influenza, that has the potential to reduce adverse outcomes



Severe Influenza can cause life changing injuries

Unique Data & Samples Identified POLB 001





- Samples taken from patients with severe Influenza were compared against human challenge study subjects with 'mild' Influenza
- This work identified 24 potential molecules that play a role in Influenza severity, with p38 MAPK being the most important
- 40 p38 MAPK inhibitors were identified, and 8 were short-listed for detailed analysis
- Based on its superior performance and advantageous licensing terms, POLB 001 was chosen as the best candidate to take forward

Poolbeg Pharma's potential integration of **Artificial Intelligence ('AI')** into our licenced databanks will accelerate and provide additional power to this discovery tool



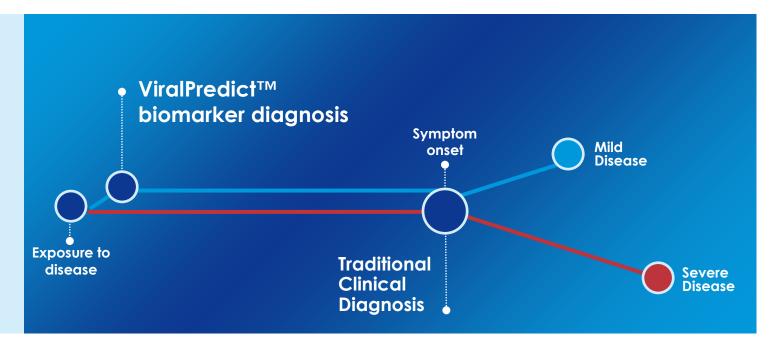


Potential to transform the way infectious diseases are treated, opportunity to licence this tool to Big Pharma Further patent applications submitted – October 2021

ViralPredict™ Biomarker Diagnostics vs Traditional Diagnosis of Disease

Advantages

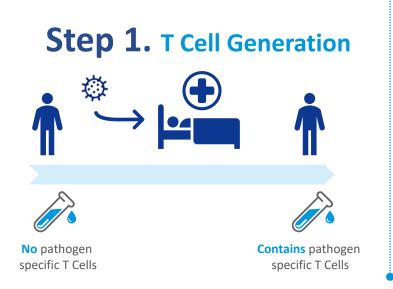
- ✓ Identify severe disease before it is symptomatically visible
- Triage patients based on predicted disease severity
- ✓ Increases window for effective treatment where early intervention is crucial, e.g. Influenza. i.e. 48hr window of efficacy for many antivirals

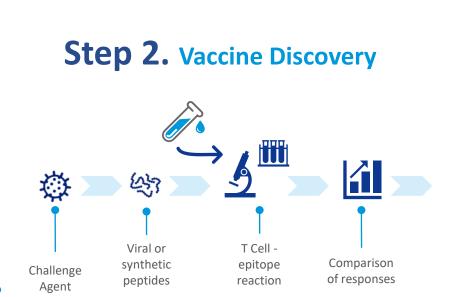


Unique Vaccine Discovery Platform

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Harnessing the human challenge model to discover new vaccines





What is an Epitope?

- Part of a pathogen that the immune system recognises
- It is the smallest unit of a molecule required to engage the immune system
- Effective vaccines require effective epitopes

Identification of epitopes that can generate robust immunity

Significant value in vaccine design and discovery platforms









Mkt Cap c. \$41bn

AIM: POLB OTCQB: POLBF





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