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PHARMA

## Master Investor

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AIM: POLB

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# Investment Highlights

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Highly Experienced Team with Proven Track Record



High Value Programmes Targeting Critical Unmet Medical Needs



Diversified Pipeline Programmes with Multiple Shots on Goal



Focused on Partnering to Minimise Cost & Accelerate Development Pipeline



Multiple Near-Term Value Inflection Points

**AIM: POLB**

# High Value Pipeline Programmes

Multiple near-term value inflection points – positioned well for partnering

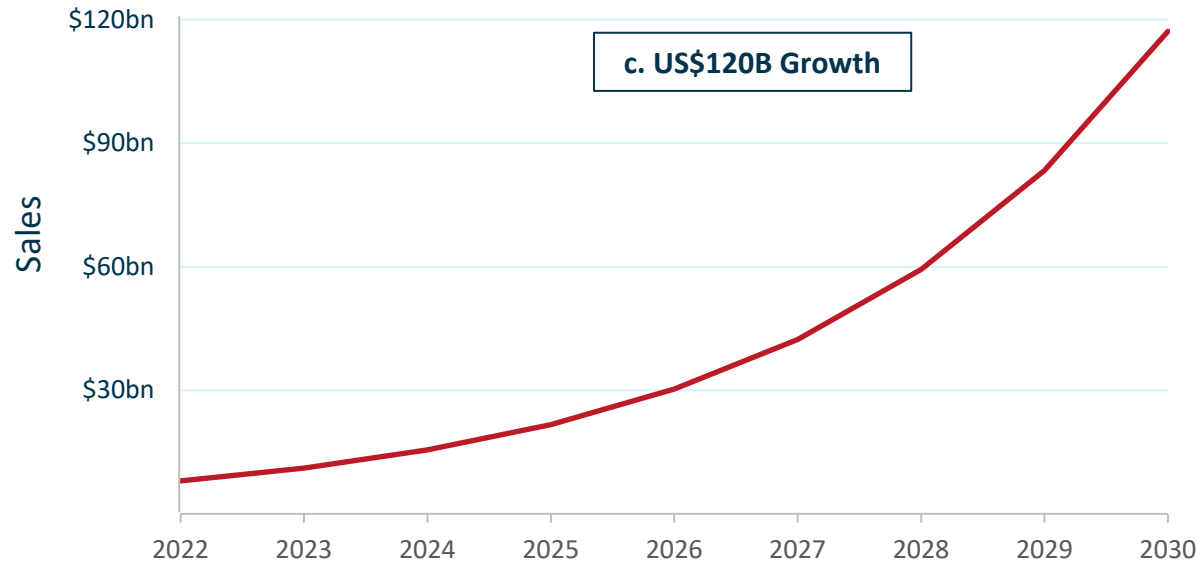
Product	Modality	Indication	Preclinical	Phase 1	Phase 2	Phase 3	Upcoming Expected Clinical Milestones
POLB 001	p38 MAPK inhibitor	Cancer Immunotherapy-induced CRS*	Phase 2 ready				<ul style="list-style-type: none"> <li>Proposed Phase 2a anticipated to commence later this year</li> <li>Would enable Phase 2a topline data in 2026</li> </ul>
Oral Encapsulated GLP-1	GLP-1R agonist	Obesity and diabetes		AnaBio Technologies LTD.			<ul style="list-style-type: none"> <li>POC trial expected to start in the coming months</li> <li>Topline POC data expected 2026</li> </ul>
AI Programmes	Novel drug discovery	Influenza		CytoReason			<ul style="list-style-type: none"> <li>Potential partnership</li> </ul>
		RSV		ONE THREE BIOTECH			<ul style="list-style-type: none"> <li>Potential partnership</li> </ul>

\*Further life cycle opportunities, including severe influenza

# Significant Market Opportunity in a Rapidly Growing Field

Cytokine Release Syndrome is a major issue and rate limiting in delivering cancer immunotherapies

## Bispecific Antibodies & CAR T Therapies<sup>1,2,3</sup>



- Bispecific antibody and CAR T therapy market expected to grow exponentially
- No approved therapy for CRS prevention & few approved for CRS management
- The need for effective CRS management is being driven by rapid growth of CRS-inducing immunotherapies

**POLB 001 – potential first approved preventative therapy for cancer immunotherapy-induced CRS**

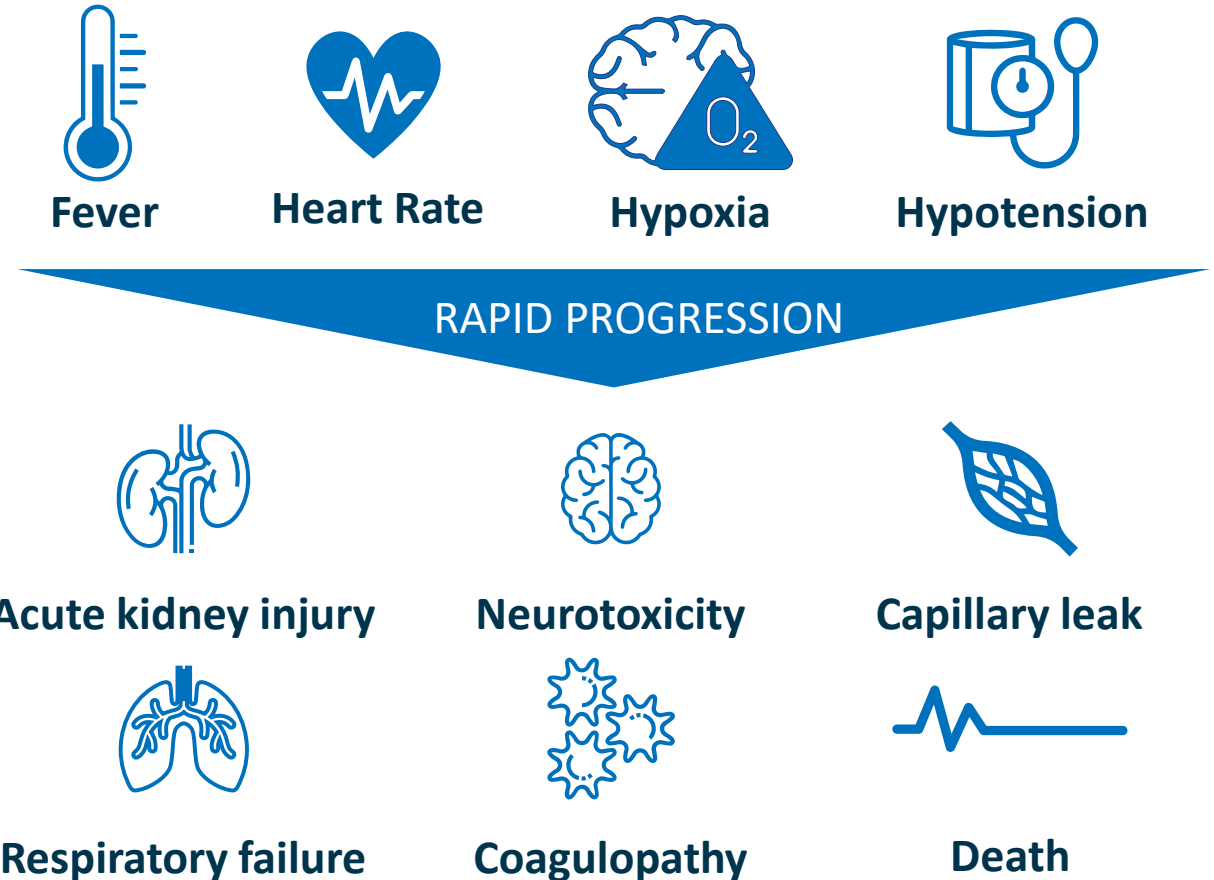
1. Grand View Research. CAR T-Cell Therapy Market Analysis 2023-2030. 2. Grand View Research. Bispecific Antibodies Market Size, Share & Trends Analysis Report. 3. Datamonitor Healthcare. Forecast: Diffuse Large B-Cell Lymphoma and Multiple Myeloma, 2023. CAR T: Chimeric antigen receptor T cell

# What is Cytokine Release Syndrome?

Severe life-threatening side effect of cancer immunotherapies

- A severe inflammatory response, which may be encountered as a side effect of some therapies and infections
- Broad range of symptoms can rapidly progress to a severe life-threatening reaction
- Even lower grades of CRS can lead to extended hospital stays while patients are closely monitored

## Clinical Manifestations of CRS



# Cancer Immunotherapy-induced CRS is a High Unmet Need

Effective preventative therapy represents a >US\$10B market opportunity



## Cytokine Release Syndrome (CRS)

A severe, potentially life-threatening side effect of cancer immunotherapies

Effective preventative therapy represents a  
**>US\$10B market opportunity<sup>4</sup>**

May enable broader, safer delivery of cancer immunotherapies in outpatient setting

**>70%<sup>1</sup> of patients experience CRS**  
on certain bispecific antibody / CAR T therapies and are restricted to specialist cancer centres

**No approved therapies for prevention**  
Approved options for CRS management (tocilizumab – anti-IL-6 mAb) **have not adequately\* prevented** Grade 2+ CRS in clinical trials

1. Average rate from Summary of Product Characteristics (SmPCs) for Yescarta, Tecartus, Abecma, Kymriah, Carvykti, Breyanzi, Elrexfio, Columvi, Epkinly, Tecvayli and Talvey; 2. Datamonitor Healthcare. Forecast: Diffuse Large B-Cell Lymphoma and Multiple Myeloma, 2023; 3. Abramson JS et al. Blood Adv. 2021 Mar 23;5(6):1695-1705. \*In this context, *adequately* is defined as both not completely preventing grade 2+ CRS and potentially sufficient to support active clinical development towards a regulatory approval of a medicine. Grade 2 CRS is defined as described by Lee et al, Biol Blood Marrow Transplant . 2019 Apr;25(4):625-638. janssencience.com & doi.org/10.1182/blood-2022-159381; 4. Independent research by Decisive Consulting Limited. <https://teamdecisive.com/meet-the-team>.

CAR T: Chimeric Antigen receptor T cell; CRS: Cytokine release Syndrome

# Potential to Make Cancer Immunotherapies Safer & More Accessible

## POLB 001 Overview

- Potent and selective p38 MAPK inhibitor
- Oral drug
- Excellent safety and tolerability profile
- Selectively targets excessive inflammation without immunosuppression
- Strong patent portfolio
- Potential for Orphan Drug Designation

## Strong Preclinical & Clinical Data

- Phase 2 ready
- Effectively prevented CRS in humanised mouse model\*
- Potent TNF- $\alpha$  and IL-6 inhibition shown in preclinical and clinical trials
- Potent reduction of a range of other inflammatory mediators

\* There was no significant or meaningful difference between POLB 001 High dose group and no CRS control group at all timepoints. CRS clinical score is a symptomatic measurement of animal behaviour and appearance  
CRS: Cytokine release Syndrome; MAPK: Mitogen Activated Protein Kinase; TNF: Tumour necrosis factor; IL-6: Interleukin-6

# POLB 001 has Progressed Rapidly into Oncology

From concept to validated preclinical data in 12 months; Phase 2 ready in just 24 months



2023

- Strategic expansion of POLB 001 into oncology as a CRS preventative therapy, a significantly larger market than severe influenza with significant interest from Big Pharma to supply drug
- Patent applications filed
- LPS data generated & presented at the premier clinical conference in Haematology (ASH)

2024

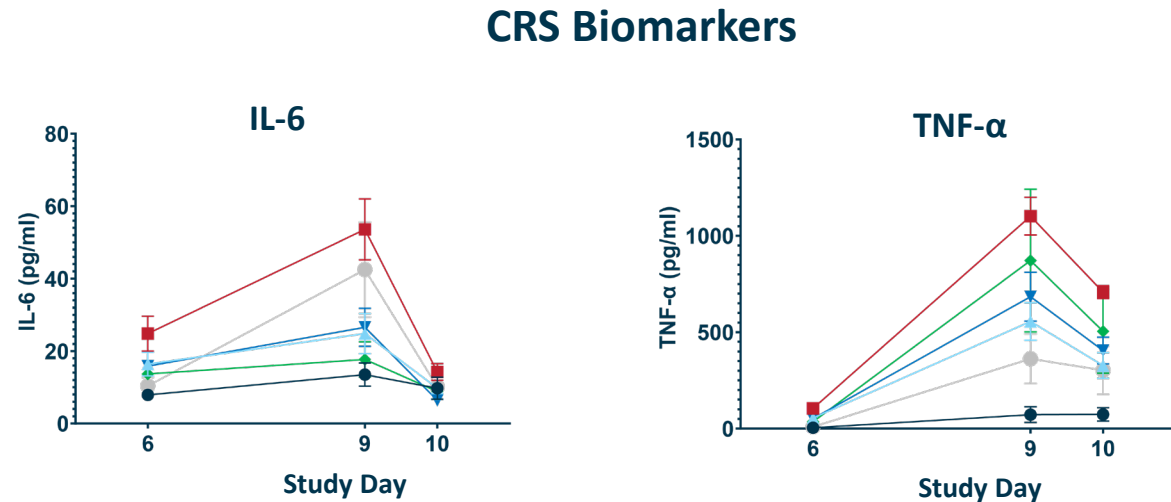
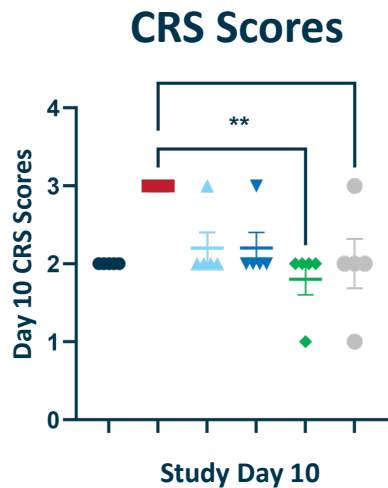
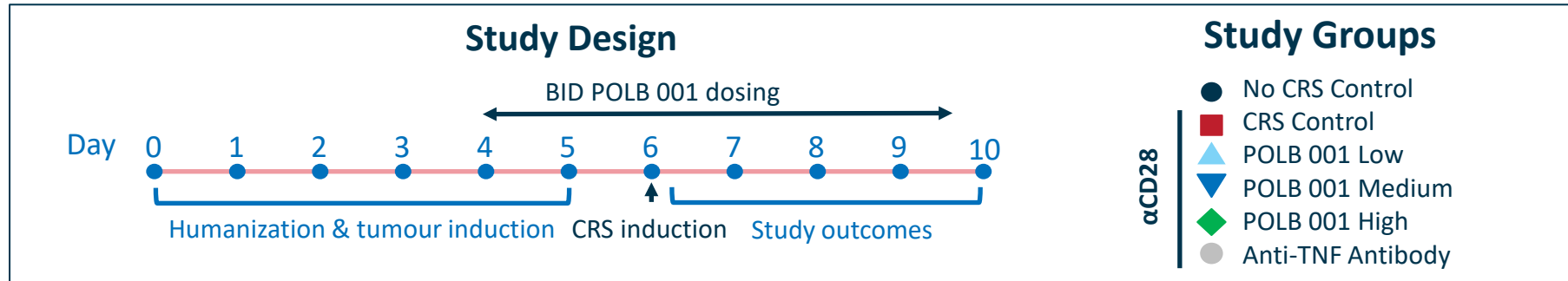
- >US\$10B market opportunity confirmed
- Independent KOLs endorse clinical potential
- Preclinical CRS data generated & presented at ASH

Today

- Phase 2 ready – key value inflection point
- Proposed POLB 001 Phase 2 trial anticipated to commence later this year which would enable topline data in 2026 to support partnering
- Data from this study is highly anticipated from would-be partners

# POLB 001 Prevented CRS in Humanised Mouse Model

Highly effective and superior to a TNF- $\alpha$  antibody in a gold standard model of CRS



**POLB 001 prevented CRS symptoms\***

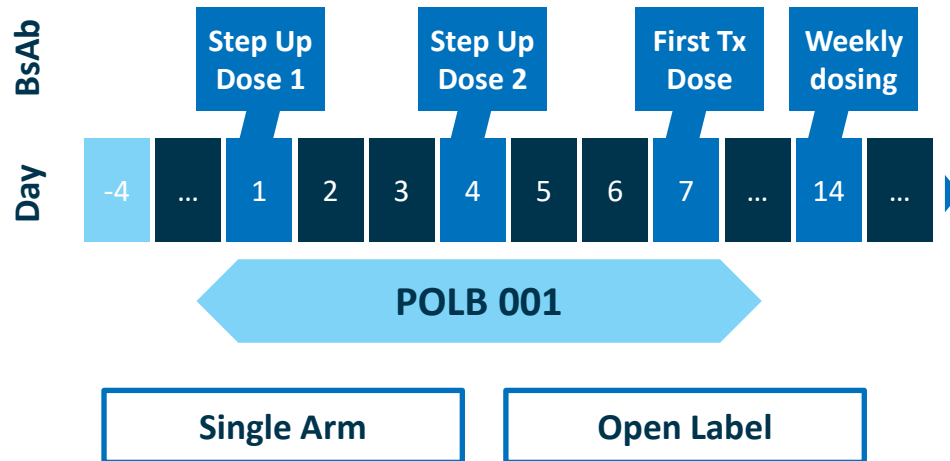
**POLB 001 decreased all key CRS biomarkers tested**

The experimental model is a previously validated CD28 superagonist induced CRS model in humanized tumour bearing mice performed by The Jackson laboratory. A TNF antibody was included as a robust comparator as these have been found empirically to be the most potent preventors of CRS in mice despite limited utility in humans. \*Statistically significant reduction of CRS scores compared to untreated controls. CRS scores had no significant difference to *No CRS Control* group. BID: twice daily; CRS: Cytokine Release Syndrome; TNF: Tumour necrosis factor; IL-6: Interleukin-6; IL-8: Interleukin-8

# Anticipated POLB 001 Phase 2a Trial

Prevention of CRS in Relapsed Refractory Multiple Myeloma Patients Receiving BsAb

## Trial Design



## Key Objectives/Endpoints

- Incidence of Grade 2+ CRS
- Incidence of CRS all grades
- Confirm safety and pharmacokinetics
- Exploratory biomarker analysis

Phase 2 trial anticipated to start later this year which would enable top-line data in 2026

# GLP-1 Programme

Oral encapsulated GLP-1R agonist targeting the obesity market

# Significant Potential for Oral GLP-1 to Claim Market Share

Major shortcomings within currently approved treatment options



## Large Growing Market

**US\$347B**

Economic impact of obesity on US businesses & employees 2023<sup>1</sup>

**US\$150B**

GLP-1R agonist market projection by 2031<sup>2</sup>

**42%**

US population effected by Obesity<sup>3</sup>

- Microencapsulated GLP-1 with **targeted gut delivery** with potential to improve convenience and bioavailability
- Potential to overcome oral delivery challenges of peptide-based biologicals<sup>1</sup>
- Proof of concept trial to start within the coming months with **topline data expected 2026**, with the potential for partnering on positive data

### AnaBio's Encapsulation Centre of Excellence







- 2,000m<sup>2</sup> state of the art manufacturing facility
- FFSC2200, FDA accredited
- Commercialises fragile bioactives in food and beverage applications



1. Global Data, Assessing the Economic Impact of Obesity and Overweight on Employers, Feb 2024. 2. The Economist, March 2023. 3. Stierman B, Afful J, Carroll MD, et al. National Health and Nutrition Examination Survey 2017–March 2020 prepandemic data files development of files and prevalence estimates for selected health outcomes. Natl Health Stat Report. 2021;158. 4. PMID: 26921819 5. PMID: 35101924. 6. PMID: 29033597. API: Active Pharmaceutical Ingredient; GLP-1: Glucagon like-peptide-1

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  -  High Value Programmes Targeting Critical Unmet Medical Needs
  -  Diversified Pipeline Programmes with Multiple Shots on Goal
  -  Focused on Partnering to Minimise Cost & Accelerate Development Pipeline
  -  Multiple Near-Term Value Inflection Points

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# Questions



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Listed on the London Stock Exchange AIM ticker: POLB

