# MICROBA

# Precision Microbiome Science

November 2021 | Private and confidential

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## Presenter

**Dr Luke Reid** Chief Executive Officer





#### **Investment Highlights**

1	Microba has <b>world leading technology in the emerging US\$4.89 billion microbiome sector<sup>1</sup>.</b> This sector is transforming the large chronic disease management market <sup>2</sup> .
2	Building the leading global microbiome testing company. 20k test reports sold to date with a strong growth profile
3	Partnerships established with market leaders incl. SYNLAB (GR:SYAB), Illumina (NASDAQ: ILMN), and Unilever (LON: ULVR)
4	Large, unique, proprietary microbiome databank driving multiple therapeutic opportunities through a capital light and repeatable platform
5	Lead drug candidate for Inflammatory Bowel Disease entering Phase Ib trial in 2022
6	Cancer program initiated with leading cancer institutes across US and AU incl. Moffitt, Mayo, MD Anderson and others
7	Globally leading microbiome expertise complimented by drug discovery experts including Prof. Ian Frazer and deep commercialization capability.



#### **Executive Summary**

Overview	<ul> <li>Company formed in 2017 to acquire co-found from the University of Queensland</li> <li>20,000+ microbiome test reports sold to date</li> <li>Global partnerships established with multinat</li> <li>Team includes global experts in drug discovery commercialisation</li> </ul>	<ul> <li>Large proprietary databank drives the discovery of multiple therapeutic assets</li> <li>Lead drug candidate for Inflammatory Bowel Disease entering Phase Ib trial in 2022</li> <li>Headquartered in Brisbane, Australia. Now 55 FTEs including 25 PhDs based across AUS and USA</li> </ul>			
	<b>Market</b> Microba with it's world leading technology operates in the emerging US\$4.89 billion microbiome sector <sup>1</sup> which is transforming the large chronic disease management market <sup>2</sup>				
Commercial	<b>SERVICES</b> Global microbiome testing services powered by Microba's world-leading gut microbiome Analysis Platform		<b>THERAPEUTICS</b> Developing novel monoclonal microbial cell therapies through Microba's data-driven Therapeutics Platform		
Model	<ul> <li>Distribution Model</li> <li>Partner distribution model scales global access to the company's Analysis Platform</li> <li>Enables partners to quickly launch a microbiome test powered by Microba's technology</li> <li>Distribution P Existing partner</li> <li>Synlab (EU)</li> <li>Macrogen (C)</li> <li>Metagenics</li> </ul>	n PartnersInflammatory Bowelrtners include:• Potent novel mono microbial drug can developedEU) en (US) nics (AU & NZ)• Manufacturing init • Lead candidate en Phase Ib trial in 20		DiseaseCancer Immunotherapyoclonal• Discovery program initiateddidates• Large study across US and AU together with leading cancer centres including Moffitt, Mayo Clinic, MD Anderson and others	
Technology	<b>Analysis Platform</b> Gut microbiome analysis technology which measures the gut microbiome with world-leading coverage and precision	<b>Discovery</b> Proprietary micro comprising >1.2M driving the discovery	<b>/ Platform</b> obiome databank microbial genomes / of therapeutic leads	<b>Therapeutic Platform</b> Data-driven therapeutics platform enabling rapid development of novel monoclonal microbial cell therapies	

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<sup>1</sup>Frost & Sullivan market report – Growth Opportunities in Human Microbiome Market Forecast to 2023 – Prepared November 2019 <sup>2</sup> BCC Research LLC Report: HLC239A Chronic Disease Management: Therapeutics, Device Technologies and Global Markets.

#### **Microba Board and Senior Management**

#### World class team with diverse skills across science, medicine and technology commercialisation



**Dr Luke Reid** Chief Executive Officer

Experienced biotech executive; ex-UniQuest one of the global leaders in commercialisation of university technology

Dr Luke Reid is an experienced research and technology commercialisation executive. Previous roles include working with UniQuest, Dupont Pioneer and Novozymes.



Pasquale Rombola Chairman

Experienced executive; ex-Morgan Stanley and Deutsche Bank

Mr Rombola has over 30 years of corporate and financial experience in Australia, Asia and the United Kingdom, Current Non-Executive Director of Audeara Limited (ASX: AUA), and former Chairman and Director companies and non-profit organisations. of Helix Resources Limited (ASX:HLX).



Prof. Ian Frazer Deputy Chairman and Chair Medical Advisory Board

Chair Australian Medical Research Advisory Board: Australian of the Year 2006

Professor Frazer is a clinical immunologist and inventor of the Gardasil vaccine, Professor at the University of Oueensland and an advisory board member of several other



**Prof Gene Tyson** Co-Founder, Non-Executive Director

Professor of Microbial Genomics at The Oueensland University of Technology

Professor Tyson is considered a worldleading expert in microbial analysis with previous tenure at UC Berkeley, MIT and UO. He published the first paper to use metagenomics for profiling microbial communities



Prof. Phil Hugenholtz Co-Founder, Chair of Scientific Advisory Board

Director of the Australian Centre for Ecogenomics: former Director of the Microbial Ecology and Metagenomic Programs at the Joint Genome Institute (JGI)

Professor Hugenholtz has made landmark contributions to the understanding of uncultured microbial diversity, and led the development of new tools and standards in the field



Assoc. Prof. Lutz Krause Chief Scientific Officer



**Dr Caroline Popper** Non-Executive Director



Dr Jakob Begun Medical Advisory Board, Chair - IBD Advisory Panel



**Dr Nicola Angel** Laboratory Director



John Cullity Commercial Advisor



**Holly Bauzon** Vice President, Commercial Development



**Mark Parker Global Business** Development















# **Opportunity Overview** Resolving chronic disease with Precision Microbiome Science

World leading microbiome analysis technology unlocks routine testing and microbiome therapies

up to **95%** coverage<sup>1</sup>

up to **34x** more accurate<sup>2</sup>



Published in frontiers Other

Technology

Microba

Technology



 Calculated by analysing more than 10k samples across Microba's databank
 Microba achieves 6-34x fewer false positive results than academic competitors
 Parks, Donovan H., et al. "Evaluation of the Microba Community Profiler for Taxonomic Profiling of Metagenomic Datasets From the Human Gut Microbiome." Frontiers in microbiology 12 (2021). 

 Illustrative visualisation of the gastrointestinal tract and the additional bacteria visible to Microba with its platform technology

This graphic is for illustrative purposes only

### The gut microbiome plays a key role in health & disease

Modifying the gut microbiome; a key missing piece to resolving chronic disease

6 in 10

People have a chronic disease<sup>1</sup>



Clinical studies demonstrating that microbiome modulation can change chronic disease outcomes<sup>2</sup>

#### What is the gut microbiome?

The community of microorganisms that inhabit the lower digestive tract containing trillions of microbial cells known as the gut microbiome.



Systemic action of microbial metabolites

Gut degradation and inflammation

Neurotransmitters triggering gut-brain

#### Key disease mechanisms

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<sup>1</sup> https://www.cdc.gov/chronicdisease/resources/infographic/chronic-diseases.htm <sup>2</sup> PubMed search terms "gut microbiome" and "modulate" and "clinical study" and selecting for clinical trials and randomized controlled clinical trials

# Microbiome science is changing medicine and will transform chronic disease management



Microbiome <u>therapy to treat</u> chronic diseases

Microbiome modulating primary and adjuvant therapies are currently being developed to address autoimmune, inflammatory, metabolic, mental health disorders and cancer immunotherapy



Microbiome <u>testing to match</u> patients with the right treatment

Microbiome biomarkers and signatures are being developed for diagnosis, screening, drug response assessment and health risk monitoring.

Microba with it's world leading technology operates in the **emerging US \$4.89 billion microbiome** sector<sup>1</sup> which is transforming the large chronic disease management market<sup>2</sup>



#### **Microba's Commercial Model**

Global testing services build a proprietary databank driving transformative novel therapies



# **Microbiome Services** Driving global revenues and data growth

### Services Overview

- Powered by Microba's leading microbiome Analysis Platform.
- **Distribution partners in US, EU & AU** offer a microbiome test to their existing customer base with Microba technology.
- Key **distribution partners established** including Synlab (EU), Macrogen (US), Metagenics (AU & NZ)
- Microba's services are trusted by large multinationals including Unilever, Illumina and other top pharma and nutrition companies
- Global services revenue expected to accelerate post COVID and with new distribution partners.



### **Partner distribution model**

### Scalable global testing services



### Microbiome services drive revenue and data growth



Global services revenue expected to accelerate post COVID and with new distribution partners.



Data from services build proprietary databank powering therapeutic discovery

### **Global** distribution partners

Distribution agreements executed with global market leaders to distribute microbiome testing solutions powered by Microba's world leading Analysis Platform technology.



# Large multinationals trust Microba for microbiome analysis services

**Multinational Pharmaceutical and Consumer Health companies** come to Microba for research services to access the company's leading technology and databank.

Unilever	illumina®	Undisclosed Global Nutrition Company	Undisclosed Global Pharmaceutical Company
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#### Microba's technology and databank enables precision research.

Client research projects include: revealing new connections between the microbiome, health and disease; drug-microbiome interactions to assist pharmaceutical companies to develop safe and effective drugs; and consumer health product discovery.

# Microbiome Databank Driving therapeutic discovery

### Large, unique, proprietary databank driving multiple therapeutic opportunities



# Microbiome Therapeutics Developing novel monoclonal microbial cell therapies

### **Therapeutics** Overview

- Strategy is to leverage our proprietary databank to develop multiple therapeutic opportunities and partner with large pharma companies
- Human first, data-driven approach to drug discovery is highly sought after by pharmaceutical companies.
- Flagship program is in Inflammatory Bowel Disease (IBD) which **affects 6.8m people globally**<sup>1</sup>.
- Program has progressed well with preclinical data showing excellent results in animal models of disease.
- Cancer program initiated with leading cancer institutes across US and AU
- Excellent deal precedents Gilead entered into \$1.5bn partnership with Second Genome<sup>2</sup>.



### Repeatable, scalable, data-driven platform **discovering novel monoclonal microbial cell therapies**



Proprietary microbiome databank driving multiple therapeutic opportunities through a capital light platform

### Inflammatory Bowel Disease program delivering **potent** orally delivered monoclonal microbial cell therapy



Acute DSS model in C57bl/6, 200 µl of live bacterial solution (1 x 10<sup>9</sup> cells/ml) orally



- MH23 stimulates epithelial restitution and mucosal healing, a key gap in existing therapy
- Lead candidate in **manufacturing for a Phase 1b** trial in patients with mild to moderate Ulcerative Colitis

2020 sales of leading immuno-modulatory drugs used to treat IBD: <u>HUMIRA \$20.4B<sup>1</sup> | <u>REMICADE \$4.2B<sup>2</sup></u></u>



### **Repeatable human first, data-driven therapeutic platform** Demonstrating rapid translation from data to first in human



### **Cancer program**

### Developing a microbiome-derived cancer immunotherapy

**Developing breakthrough microbiomederived cancer immunotherapy** together with leading Cancer Centers across US and AU.

 Between <u>42% - 70%</u> of patients do not respond to ICI therapy<sup>1,2</sup>

#### **Development partners**











- Modulation of the gut microbiome using fecal microbiome transplant improved ICI response in Phase I and II studies<sup>3,4</sup>
- Over 30 published studies support the influence of the gut microbiome on ICI response
- Targeting the discovery and development of an effective microbiome-derived adjuvant therapy to increase ICI response rate



## **Therapeutic pipeline**

### Repeatable, capital light therapeutic platform

#### **Inflammatory Bowel Disease**

- USD 19.2B market size with 4.8% CAGR<sup>1</sup>
- Microba candidates addressing key gap in current therapy
- Strong deal precedents



#### **Cancer immunotherapy**

- Between 42% 70% of patients do not respond to ICI therapy<sup>2,3</sup>
- Market is expected to be worth >50B by 2025
- Opportunity to develop a microbiome adjuvant therapy to improve ICI response

MOFFITT

Development partners





#### **Additional program opportunities**

Inflammatory & autoimmune

- Allergy
- Rheumatoid Arthritis

Cardiometabolic

- Diabetes
- Non-alcoholic fatty liver disease

#### Mental health conditions

- Anxiety & Depression
- Alzheimer's



## Growth sector with **big pharma engaged**



<sup>1</sup> https://microbiomepost.com/gilead-signs-potential-1-5-billion-deal-with-second-genome/

<sup>2</sup> https://www.fiercebiotech.com/biotech/genentech-signs-534m-deal-microbiotica-search-gut-bacteria-for-ibd-targets-new-drugs

<sup>3</sup> https://www.reuters.com/article/us-nestle-seres-deals-idUSKCN0UP1VP20160111

# Summary

Building the leading microbiome testing company Globally scalable distribution partner model with strong growth prospects post COVID

- Large, unique, proprietary databank
  Driving multiple therapeutic opportunities
- Repeatable, scalable drug development platform
  Generating high-value, potent drug candidates with strong deal precedents
- Microbiome segment rapidly growing and attracting multinational investment

Strong technology platform positions Microba for a dominant market position

#### Contact



Dr Luke Reid Chief Executive Officer luke.reid@microba.com



#### **Pasquale Rombola**

Chairman pasquale.rombola@microba.com **Head Office** Level 10, 324 Queen Street, Brisbane, QLD Australia

#### **Laboratory** Princess Alexandra Hospital, Brisbane, QLD Australia



# Appendix



### Board of Directors



**Pasquale Rombola** Chairman Non-Executive Director

Mr Rombola has over 30 years of corporate and financial experience in Australia, Asia and the United Kingdom. He spent 19 years in senior positions with Morgan Stanley and Deutsche Bank, including 7 years in the role of Managing Director. Mr Rombola is a current Non-Executive Director of Audeara Limited, a leading hearing health company (ASX: AUA), he is the Chairman of Advantage Agriculture Pty Ltd a private agribusiness company. He was also formerly the Chairman and Director of Helix Resources Limited (HLX).

Mr Rombola holds a Bachelor of Economics from the University of Western Australia.



**Prof. Ian Frazer** Deputy Chairman and Chair Medical Advisory Board

Professor Frazer is a clinician scientist, trained as a clinical immunologist. He is a Professor at the University of Queensland and is the current Chairman of the Australian Medical Research Advisory Board (AMRAB) which advises the Minister for Health on prioritising spending from the Medical Research Future Fund (MRFF). He is recognised as coinventor of the technology enabling Gardasil - the leading vaccine currently used worldwide to help prevent cervical cancer.

Professor Frazer holds a Doctor of Medicine from the University of Melbourne and the following degrees from the University of Edinburgh: Bachelor of Medicine, Bachelor of Surgery and Bachelor of Science (Hons).

**Dr Caroline Popper** Non-Executive Director

Dr Popper is a US-based pathologist and business consultant with more than 20 vears' experience in the international diagnostics, medical devices and drug discovery fields, including 10 vears in senior management and marketing roles at the leading medical technology firm, Becton Dickson & Company. Dr Popper has served in senior managerial and advisory positions at a variety of Fortune 500 and start-up companies, including bioMerieux and MDS Proteomics.

She holds a Bachelor of Medicine from the University of the Witwatersrand, Johannesburg; Master of Public Health – Health Policy and Health Economics from Johns Hopkins University, Baltimore.



**Prof Gene Tyson** Co-Founder, Non-Executive Director

Professor Tyson is a Professor of Microbial Genomics at The Queensland University of Technology and is the Director of the Centre for Microbiome Research.

Whilst at the University of California, Berkeley he was involved in publishing the first paper regarding the use of metagenomic sequencing for assessing microbial communities. Professor Tyson is also considered a world-leading expert in microbial analysis.

Professor Tyson holds a Bachelor Science (Hons) from the University of Queensland and a PhD from the University of California, Berkeley.



Dr Hyungtae Kim Non-Executive Director

Dr Hyungtae Kim is an internationally experienced leader in the genomics field having held the positions of Chief Executive Officer of Macrogen Inc (Macrogen) from 2008 to 2014 and Chief Executive Officer, Macrogen Europe from 2015 to 2017.

Dr Kim is a Director of Macrogen Inc, a company listed on the KOSDAQ in South Korea.

Dr Kim is also a Director of the Gongwu Genome Information Foundation.

Dr Kim holds a PhD in molecular biology from George Washington University in Washington DC, USA.



Richard Bund Non-Executive Director

Mr Bund is a Chartered Accountant and Director of Equipe Advisory Accounting firm. Mr Bund has more than 20 years experience in accounting and corporate finance and is the director of several private Australian companies.

Mr Bund is a Member of Chartered Accountants Australia and New Zealand and the Taxation Institute of Australia. He holds a Bachelor of Commerce (Accounting) from the University of Adelaide and a Graduate Diploma in Chartered Accounting from Chartered Accountants Australia and New Zealand.

### Medical Advisory Board



**Prof. Ian Frazer** Deputy Chairman and Chair Medical Advisory Board, Clinical Immunologist

Professor Frazer is a clinician scientist, trained as a clinical immunologist. He is a Professor at the University of Queensland and is the current Chairman of the Australian Medical Research Advisory Board (AMRAB) which advises the Minister for Health on prioritising spending from the Medical Research Future Fund (MRFF). He is recognised as coinventor of the technology enabling Gardasil - the leading vaccine currently used worldwide to help prevent cervical cancer.

Professor Frazer holds a Doctor of Medicine from the University of Melbourne and the following degrees from the University of Edinburgh: Bachelor of Medicine, Bachelor of Surgery and Bachelor of Science (Hons).



**Dr Jakob Begun** Medical Advisory Board, Chair IBD Advisory Panel, Gastroenterologist

Dr Jakob Begun is a Practising Clinical Gastroenterologist and Senior Research Fellow in the Immunity, Infection, and Inflammation Program at Mater Research, The University of Queensland.

He established an IBD centre at Queen Elizabeth II Hospital and an adolescent and young adult IBD centre at the Mater Hospital in Brisbane. Dr Begun is a senior lecturer at The University of Queensland School of Medicine and has a basic and translational laboratory at the Translational Research Institute. He maintains active collaborations with researchers at Harvard University and has formed new collaborations with researchers across Australia through his role as Chair of the Australia and New Zealand IBD Consortium.



**Dr Paul Griffin** Medical Advisory Board, Infectious Disease Physician

Dr Paul Griffin is an Infectious Diseases Physician and microbiologist and was appointed as the Director of Infectious Diseases at Mater Health Services in 2013. In addition, Dr Griffin continues appointments as Principal Investigator at Q-Pharm, as Visiting Scientist/Honorary Research Fellow at Mater Medical Research Institute and Queensland Institute of Medical Research, and also as Senior Lecturer at The University of Queensland.

His research interests include clinical trials in the field of infectious diseases particularly malaria human challenge and transmission blocking studies, as well as the detection of antibiotic resistance particularly VRE by mass spectrometry in the clinical microbiology laboratory.



**Dr Chris Hogan** Medical Advisory Board, General Practitioner

Professor Tyson is a Professor of Microbial Genomics at The Queensland University of Technology and is the Director of the Centre for Microbiome Research.

Whilst at the University of California, Berkeley he was involved in publishing the first paper regarding the use of metagenomic sequencing for assessing microbial communities. Professor Tyson is also considered a world- leading expert in microbial analysis.

Professor Tyson holds a Bachelor Science (Hons) from the University of Queensland and a PhD from the University of California, Berkeley.



**Prof Maria Abreu** IBD Advisory Panel Member, Gastroenterologist

Crohn's and colitis physicianscientist. Director of Crohn's & Colitis Center, Professor of Medicine, Professor of Microbiology and Immunology, University of Miami, Miller School of Medicine, Florida, US.





**Prof Jean-Frederic Colombel** IBD Advisory Panel Member, Gastroenterologist

Professor Of Medicine at Icahn School of Medicine at Mount Sinai.

Former President of European Crohns & Colitis Organisation (ECCO).

Chair of the International Organisation of Inflammatory Bowel Disease (IOIBD).



### **Future Milestones**



### **Capital structure**

#### **Current shareholder register**

High quality share register with strong institutional holders including Perennial, Thorney and Alium. In addition, the company has high net worth investors and KOSDAQ listed strategic investor Macrogen.

Holder	No. of Shares ('000,000)	Pre-Raise Capital (%)
Founding Team	46.3	22.3%
SA Microba Holdings	30.4	14.7%
Institutional Investors	60.2	29.0%
Macrogen	17.8	8.6%
Others	52.8	25.4%
Total Issued Capital <sup>1</sup>	207.5	100%

1. The number does not include 17.6m options currently on offer under the Employee Share Option Plan.

Existing shares on Issue <sup>1</sup>	207.5m
Current Market capitalisation	A\$83 million

### Partner distribution model

#### **Partners**



Simplified

**Financial Model** 

### Next generation microbiome drug discovery approach



\*Almeida et al Nature Biotechnology (2020) DOI: <u>10.1038/s41587-020-0603-3</u>

# Microbiome is a **growth sector** of the chronic disease management market



Microbiome Drug Discovery Company NASDAQ \$630m USD mkt cap



Microbiome Drug Discovery Company NASDAQ \$585m USD mkt cap FINCH

Microbiome Drug Discovery Company NASDAQ \$701m USD mkt cap



Genomic testing & data-driven drug discovery company NASDAQ \$5.2bn USD mkt cap

**MICROBA** All figures sourced from Yahoo Finance as at 10 November 2021

# Our **personal health testing** solution

## 60%

Of the population experience gastrointestinal symptoms

## 89%

Of customers receive an actionable out-of-range result

9/10 Customer satisfaction score\* We pioneered the delivery of comprehensive microbiome reporting to empower consumers and practitioners to improve health



\*Survey results from >600 individuals following consultation with a microbiome coach