

Q4 FY23 Quarterly Investor Presentation

Microba Life Sciences Limited (ASX: MAP) ("Microba" or the "Company") is pleased to provide its Q4 FY23 Investor Presentation to be delivered at the Quarterly Investor Webinar held with CEO Dr Luke Reid and SVP, Therapeutics Prof Trent Munro at 10:30am AEST today.

Presenting: Microba CEO, Dr Luke Reid and SVP Therapeutics Prof. Trent Munro

Time: 10:30am AEST on Thursday 27 July 2023

To register for the Quarterly Investor Webinar please click the link below. Investors can submit questions prior to the webinar to simon@nwrcommunications.com.au or do so via the Zoom Q&A function during the webinar.

Microba Q4 FY23 Investor Webinar Registration

This announcement has been authorised for release by the Chairman and CEO.

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About Microba Life Sciences Limited

Microba Life Sciences is a precision microbiome company driven to improve human health. With world-leading technology for measuring the human gut microbiome, Microba is driving the discovery and development of novel therapeutics for major chronic diseases and delivering gut microbiome testing services globally to researchers, clinicians, and consumers. Through partnerships with leading organisations, Microba is powering the discovery of new relationships between the microbiome, health and disease for the development of new health solutions.

For more information visit: www.microba.com

Microba encourages all current investors to go paperless by registering their details with the designated registry service provider, Automic Group.

MICROBA

Transforming health through the human microbiome

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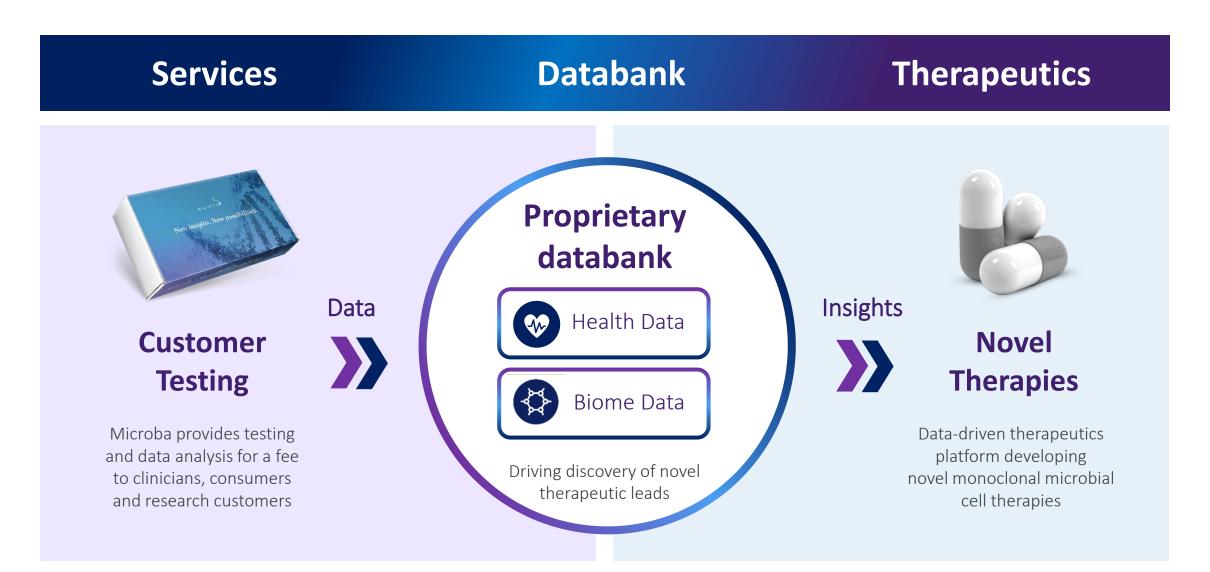
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Two core business segments driven by a proprietary databank





Company Snapshot



Continuous YoY revenue growth over 5 years of operations



Partnerships with market leaders incl. **Sonic Healthcare** (ASX: SHL), **Ginkgo Bioworks** (NYSE: DNA), **SYNLAB** (GR:SYAB) + more



Large, unique, proprietary microbiome databank



3 key therapeutic programs with lead IBD drug candidate in Phase I trial



World-leading technology in the emerging and rapidly growing **US\$4.89 billion**microbiome sector¹



Globally **leading microbiome expertise** complemented by
drug discovery experts including
Prof. lan Frazer



Recent Milestones





FIRST DISTRIBUTION AGREEMENT

First agreement executed to deliver Microba's advanced infectious disease test MetaPanel Uinto Australia





EXPANSION INTO 7 NEW COUNTRIES

Signed agreements for Poland, Hungary, Romania, Croatia, Türkiye, Czech Republic and Brazil





NEXT GEN HEALTHCARE TESTING LAUNCHED

New MetaXplore Utest range launched to healthcare professionals with strong uptake



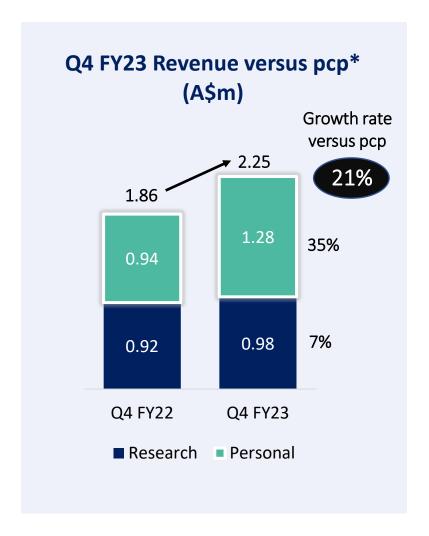
PHASE 1 CLINICAL TRIAL COMMENCED FOR IBD PROGRAM

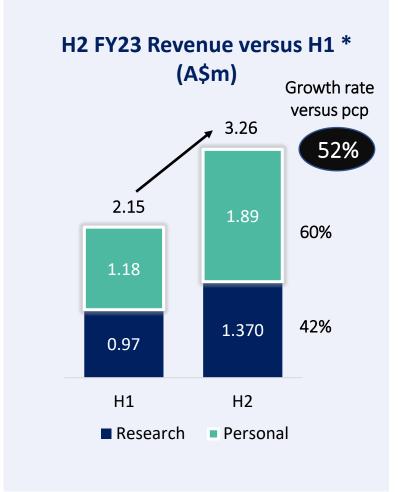
First participants have successfully dosed in the Phase I Clinical Trial of MAP 315, Microba's lead Therapeutic Program in Inflammatory Bowel Disease (IBD)

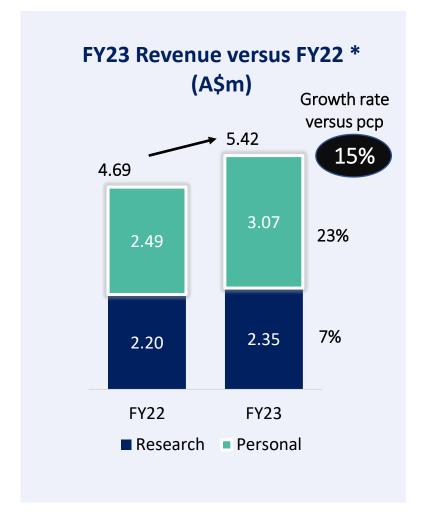


Microbiome Services Driving global revenues and data growth

Q4 Financial Highlights – Strong growth in Personal Testing revenue







Advanced microbiome testing addressing large markets in healthcare

Addressable Healthcare Markets

Gastrointestinal disorders

MetaXplore™

Is the microbiome contributing to the patients DGBI and how can they manage?

150M est. addressable patients worldwide¹

Well established out of pocket private pay market

Gastrointestinal infection

MetaPanel™

Does the patient have a pathogen and how can I selectively treat it?

16M est. addressable patients worldwide²

Well established hospital direct-bill and path to reimbursement

¹Estimated based on the prevalence of specific Disorders of the Gut-Brain Interaction across 26 countries (Av prevalence of 32.8% DOI: 10.1111/nmo.14594), and the proportion regularly seeking medical support with one or more doctor visit per month (Average 15.4% - DOI: 10.1053/j.gastro.2020.04.014)

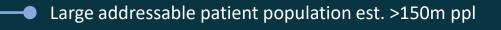
² Estimated based on the global number of immuno-compromised patients and other patients at high risk for gastrointestinal infection (>8.1m chemotherapy treated solid tumor cancer patients and >1.1m haematological cancer patients

DOI: https://doi.org/10.1016/S1470-2045(19)30163-9), (>3.5m long stay ICU patients – estimate based on data from https://ourworldindata.org/grapher/intensive-care-beds-per-100000)



MetaXplore™

Advanced, comprehensive, GI testing for improved management of chronic GI disorders



Comprehensive GI and microbiome assessment

- Diagnostic and investigative gastrointestinal health markers (7 markers)

- Diagnostic pathogen and parasite detection (12 markers)

- Complete microbiome profiling (Over 28,000+ microbial species)

- Microbiome production and consumption of metabolites (13 markers)

- Scientifically graded clinical insights using NHMRC guidelines

Strong uptake in Australia following launch in Q3 FY23

 Following the launch in Australia, expected to be rolled out through Microba's growing international distribution partner network.





MetaPanel™

Unlocking the power of metagenomics for comprehensive assessment of enteric infections

- High risk and immunocompromised initial patient population >16m
- Most comprehensive GI infectious disease test available spanning a comprehensive set of targets:
 - multi-domain pathogen species
 - virulence factors
 - AMR gene families
 - AMR gene variants
- Distribution agreement signed for first commercial launch with Sonic Healthcare
- Large potential commercial opportunity via hospital direct bill and path to reimbursement





Microba's leading international bench of healthcare partners









\$9.3bn Revenue

Partnership: UK, Germany, Belgium, Australia, US, NZ & Switzerland \$5.8bn Revenue

Partnership: Europe

& LATAM

Leading GI Diagnostics in US

Partnership: US

Raised USD \$800m

Partnership: GCC Region

Microba's **Healthcare** & **Pathology Partners**



Significant international distribution expansion for Microba's testing services

Leading bench of healthcare partners provides access into 35 countries with 13 now operational Contracted partner/s operational Access to this country through existing distribution partner network



Global growth driven through Microba's distribution partner network

Executing to progressively move partners through Microba's partner success program to provide Microba-powered testing to their customers.



Stage	Details			
1 - Planning & Contracting	20 countries (Including Sonic Healthcare companies)			
2 - Operationalisation	United States (LUM), Brazil (SYAB), Australia (SHL)			
3 - Sales & Marketing Activation	Australia (MH), United Arab Emirates (G42), Portugal (SYAB), Czech Republic (SYAB), Türkiye (SYAB), Poland (SYAB), Colombia (SYB), Croatia (SYAB), Hungary (SYAB), United States (GEN)			
4 - Execution & Growth	Australia (MAP), Australia (MG), New Zealand (MG), Spain (SYAB), Italy (SYAB), Romania (SYAB)			



Microbiome Therapeutics Developing novel monoclonal microbial cell therapies

A therapeutic revolution. Novel, precision microbiome therapeutics

Precision Microbiome Therapeutics

- Precision microbiome analysis platform delivering unparalleled accuracy, coverage & depth.
- Data driven discovery platform utilising one of the worlds most advanced & highly curated microbiome datasets.
- Next generation approach to microbiome drug development identifying single keystone species and their biology to develop Live Biotherapeutics.



Innovative Pipeline

- ✓ Excellent safety profile
- ✓ Scalable GMP manufacturing for high dose oral delivery
- ✓ Potent and novel biology mediated by Live Biotherapeutic strategy



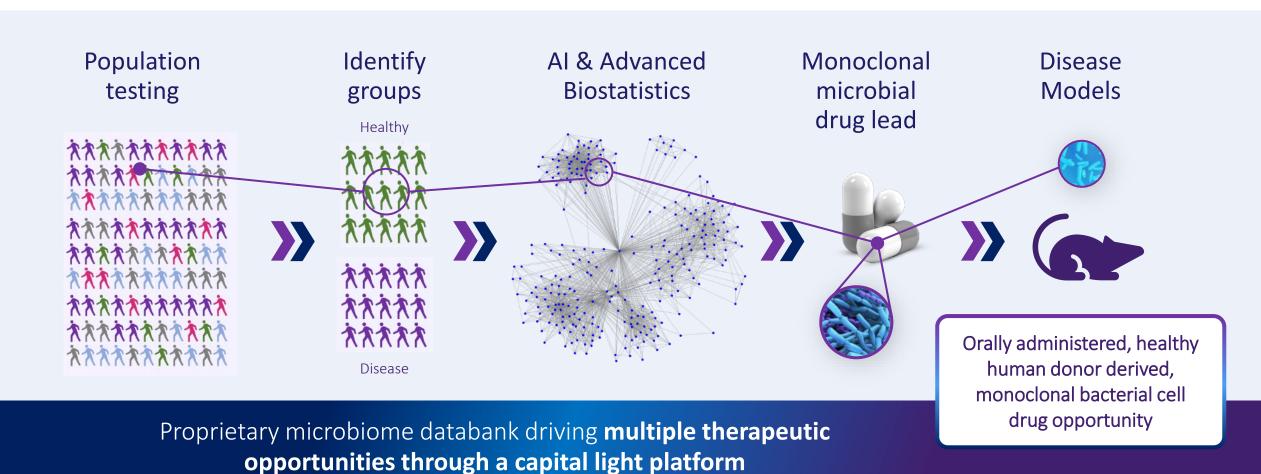
- ✓ Technically robust multi-disciplinary team
- ✓ Global partners

Microba Partners Mount Sinai U UNIVERSITY OF MIAMI OF MIAMI OF MIAMI OF QUEENSLAND OF





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



Rapid progress tapping the therapeutic potential of the human microbiome for major chronic diseases

Inflammatory Bowel Disease



PHASE I IN PROCESS

Recently Completed

- ✓ Phase I HREC approval
- ✓ cGMP manufacturing complete
- ✓ Phase I trial commenced

Upcoming milestones

- Phase I participant dosing complete
- Phase I complete









Cancer Immunotherapy



PRECLINICAL

Recently Completed

- ✓ Leads discovered
- ✓ Leads isolated
- ✓ First animal model results

Upcoming milestones

- Immunological pre-clinical results
- Lead candidate selection





Autoimmune Diseases



SCREENING

Recently Completed

- ✓ Program commenced
- ✓ Strains provided to Ginkgo
- ✓ First in vitro screening results

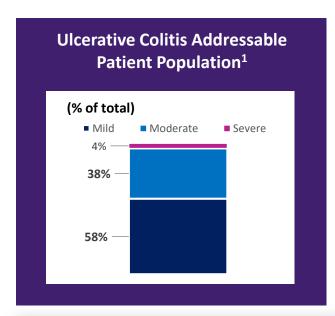
Upcoming milestones

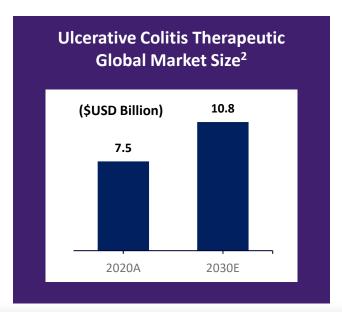
- Stage 1 activity screening complete
- Stage 2 activity screening complete



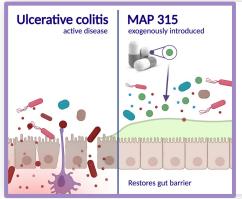


Inflammatory Bowel Disease program – MAP 315 Addressing a key gap in existing therapy for UC sufferers





MAP 315 has the potential to provide novel, potent therapeutic benefit to UC patients through addressing a key gap in existing care — epithelial and mucosal healing

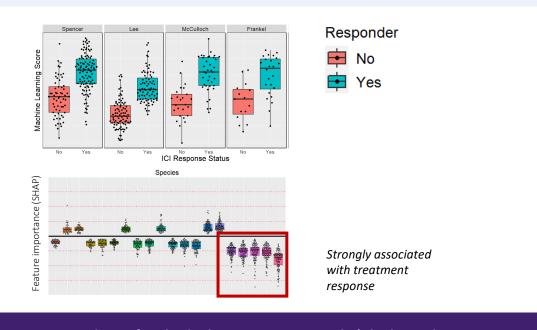






Immuno-oncology program – Positive first animal data

1 Human clinical data driven lead candidate discovery

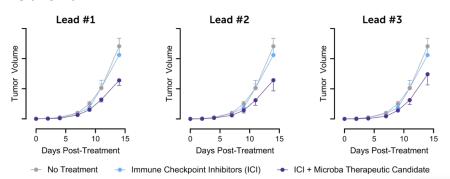


Meta-analysis of multiple datasets using Microba's high-resolution technology identifies multiple species not previously found to be associated with treatment response.

Proof of concept achieved in immune checkpoint inhibitor (ICI) refractive mouse model

Positive animal efficacy data has been generated for Microba's immuno-oncology therapeutic leads.

A significant reduction in tumour size was observed in combination with immune checkpoint inhibitor (ICI) treatment in a mouse model of melanoma.



The global ICI market is valued at over US\$30B¹ – a novel therapeutic that increases response to these drugs represents a substantial commercial opportunity



The Microbiome has been identified as a critical element across the spectrum of Cancer Biology

Autoimmune disease program - Positive first in vitro results

Building towards biobank of valuable therapeutic assets

- ✓ Novel high-throughput anaerobic cultivation and screening platform has been established in partnership
- ✓ First results have been delivered identifying leads with:
 - anti-inflammatory activity;
 - effects on gene transcription associated with immune modulation; and
 - other biological mechanisms of relevance to autoimmune and other chronic diseases
- ✓ Program tracking positively to deliver a deeply characterised biobank containing therapeutic leads for multiple autoimmune diseases

Program Overview

- 2 year discovery program which commenced in May 2022
- Leveraging Ginkgo synthetic biology capabilities and Microba's data driven drug discovery pipeline for the purpose of identifying drug candidates for Psoriatic Arthritis, Autoimmune Liver Disease and Lupus
- Both parties are contributing investment and intellectual property to the program.



NYSE: DNA | Market cap \$4.7B* | Boston HQ



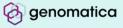






















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The start of a therapeutic revolution

1 First Generation







Fecal Doner Derived



FDA approval Nov 30 2022

Feacal doner derived enema drug product



FDA approval April 27 2023 Feacal doner derived oral capsule drug product 2 Second Generation



Bacterial Consortia



Vedanta Biosciences

Vedanta Biosciences Raises \$106.5M in Funding



SER-155

Phase 1b showing engraftment reduction in pathogens

3 Next Generation







MAP 315

Phase 1 Half 1 FY2024



Some recent IBD and microbiome deals

Licensee / Acquiror	Licensor / Target	Date	Туре	Deal size	Indication / clinical stage
MERCK	Prometheus Biosciences	Apr 2023	Acquisition	Total deal size: US\$10.8b	Ulcerative Colitis (phase 2) Crohn's disease (phase 2A) Autoimmune diseases (phase I or pre clinical)
Nestle HealthScience ®	Enterome	July 2022	R&D collaboration and license agreement	Total deal size: Undisclosed Upfront: €40m Sales / regulatory milestones: Undisclosed	Food allergies and IBD (pre clinical)
Pfizer	PHARMACEUTICALS	Mar 2022	Acquisition	Total deal size: US\$6.7b	Ulcerative Colitis (phase 3), Crohn's disease (phase2/3), Atopic dermatitis (phase 2 complete)
Roche Genentech A Member of the Roche Group	NOVOME BIOTECHNOLOGIES	Nov 2021	R&D collaboration and license agreement	Total deal size: US\$605m Upfront: US\$15m Additional payments: US\$590m	IBD (Discovery)
Nestle HealthScience ®	SERES THERAPEUTICS	Jul 2021	Licensing agreement in US/Canada	Total deal size: US\$525m Upfront: US\$175m Sales / regulatory milestones: Up to US\$225m	Recurrent Clostridioides difficile infection (Phase 3)

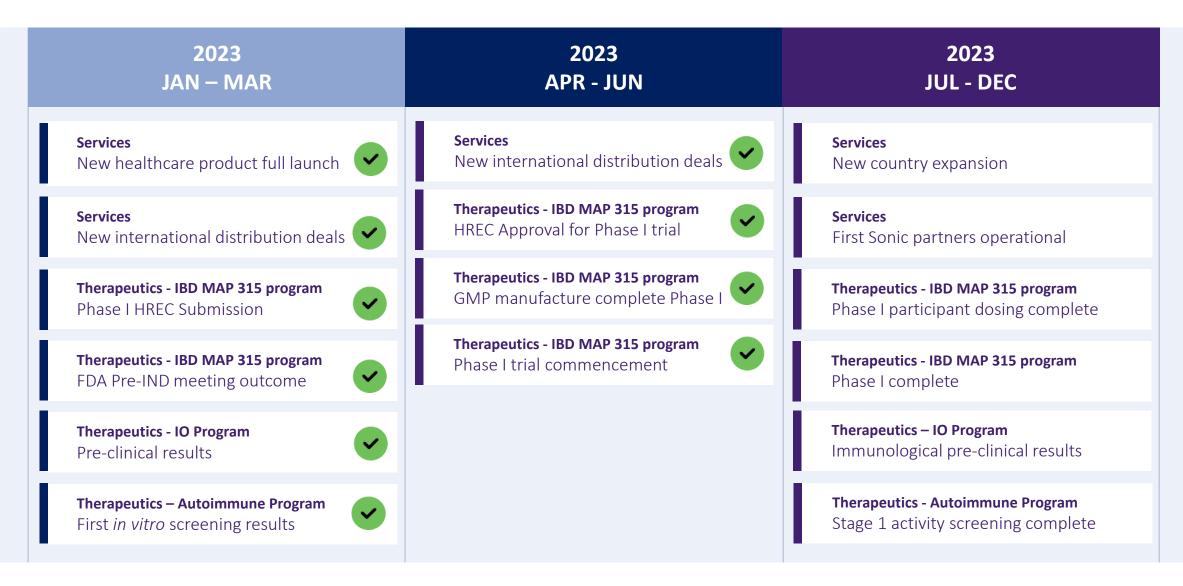


https://www.enterome.com/news-events/enterome-signs-major-strategic-rd-collaboration-with-nestle-health-science-to-develop-and-commercialize-new-allermimics-and-endomimics-immunotherapies-for-food-allergies-and-inflamm/

Outlook



Upcoming Milestones for 2023







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