

Microba to Present at 17th Bioshares Biotech Summit

Microba Life Sciences Limited (ASX: MAP) ("Microba" or the "Company") is pleased to announce that Chief Executive Officer, Dr Luke Reid and SVP, Therapeutics Prof. Trent Munro will present at the 17th Bioshares Biotech Summit in Hobart, Australia at 4.35pm AEST today.

A copy of the Bioshares Biotech Summit presentation is attached below.

This announcement has been authorised for release by the Chairman and Chief Executive Officer.

For further information, please contact:

Dr Luke Reid
Chief Executive Officer
E: Luke.Reid@microba.com

Simon Hinsley
Investor / Media Relations
E: simon@nwrcommunications.com.au
T: +61 401 809 653

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

PRECISION MICROBIOME THERAPEUTICS

24 July 2023

Disclaimer

This presentation (Presentation) has been prepared by Microba Life Sciences Limited (Microba).

Summary information - This Presentation contains summary information about Microba and its activities which is current only as at the date of release of this Presentation. Microba may in its absolute discretion, but without being under any obligation to do so, update or supplement this Presentation. The information in this Presentation is of a general nature and does not purport to be complete nor does it contain all the information which a prospective investor may require in evaluating a possible investment in Microba or that would be required in a prospectus or other disclosure document prepared in accordance with the requirements of the *Corporations Act 2001* (Cth) (Corporations Act).

Industry and market data — In this Presentation, Microba refers to certain market, industry, and statistical data used in connection with this Presentation may have been obtained from research, surveys or studies conducted by third parties, including industry or general publications. Neither Microba nor its representatives have independently verified any such data and no representation or warranty, express or implied, is made as to its fairness, accuracy, correctness, completeness or adequacy. Some data is also based on the good faith estimates of Microba, which are derived its reviews of internal sources as well as the independent sources described above.

Not an offer - This Presentation is not a prospectus or other disclosure document under the Corporations Act and will not be lodged with the Australian Securities and Investments Commission. This Presentation is for information purposes only and is not an invitation or offer of securities for subscription, purchase or sale in any jurisdiction. The distribution of this Presentation (including electronically) outside Australia may be restricted by law. If you come into possession of this Presentation, you should observe such restrictions and should seek your own advice. Any non-compliance with these restrictions may contravene applicable securities laws.

Not investment or medical advice - The information contained in this Presentation is not investment, financial product advice, medical advice or any medical recommendation or recommendation to acquire Shares. This Presentation has been prepared without taking into account your investment objectives, financial situation, medical or any other particular needs. This Presentation does not and will not form any part of any contract for the acquisition of shares. Each recipient of this Presentation should make its own enquiries and investigations regarding all information in this Presentation. Before making an investment decision, you should consider whether it is a suitable investment for you in light of your own investment objectives, financial situation and particular needs and having regard to the merits or risks involved. Independent financial advice is recommended.

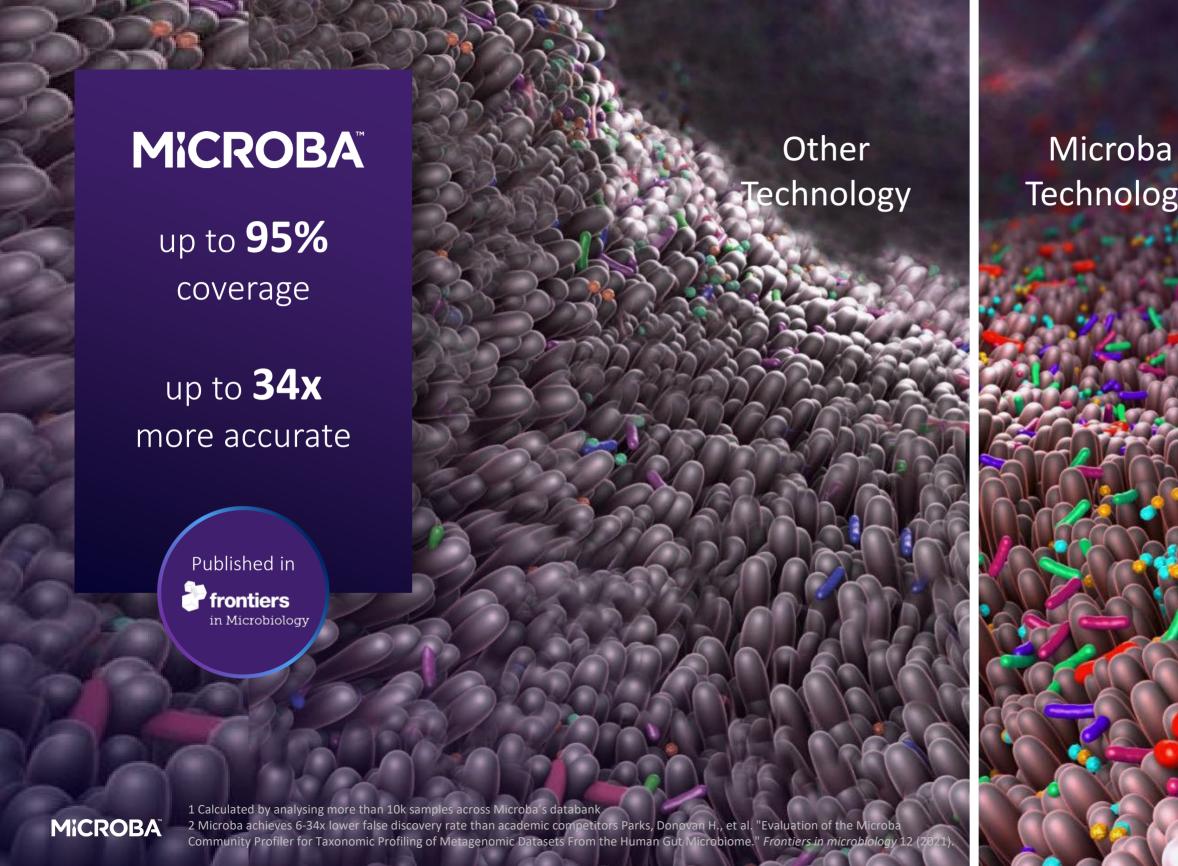
Future performance - This Presentation contains forward looking statements. Forward-looking statements generally relate to current expectations, hopes, beliefs, intentions, strategies or productions about future events or Microba's future financial or operating performance. For example, statements regarding anticipated growth in the industry in which Microba operates and anticipated growth in demand for Microba's products and services, projections of Microba's future financial results and other metrics are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as "pro forma", "may", "should", "could", "might", "plan", "possible", "project", "strive", "budget", "forecast", "expect", "intend", "will", "estimate", "anticipate", "predict", "potential" or "continue", or the negatives of these terms or variations of them or similar terminology, but the absence of these words does not mean that a statement is not forward-looking. Such forward-looking statements are subject to risks, uncertainties, and other factors which could cause actual results to differ materially from those expressed or implied by such forward-looking statements. These forward looking statements are provided as a general guide only and should not be relied upon as an indication or guarantee of future performance and may involve known and unknown risks, uncertainties and other factors, many of which are outside the control of Microba. You are cautioned not to place undue reliance on any forward looking statement. Forward looking statements in this Presentation and contingencies which are subject to change without notice. Actual results, performance or achievements may vary materially from any forward looking statements and the assumptions on which statements are based. The forward looking statements in this Presentation are based on information available to Microba as at the date of this Presentation and nothing in this Presentation should be regarded as a representation by any person that the fo

Financial data — All dollar values in Australian dollars (A\$ or \$) unless otherwise stated. Recipients should note that this Presentation contains historical and pro-forma financial information. Any financial information provided in this Presentation is for illustrative purposes only and is not represented as being indicative of Microba's views on its future financial condition and/or performance.

Trademarks – This Presentation may contain trademarks, trade names and copyrights of other companies, which are the property of their respective owners. Solely for convenience, some of the trademarks, trade names and copyrights referred to in this Presentation may be listed without the © or ® symbols, but Microba asserts, to the fullest extent under applicable law, the rights of the applicable owners, if any, to these trademarks, trade names and copyright.

Disclaimer - Except for any statutory liability which cannot be excluded, Microba, its related bodies corporate and their respective officers, employees and advisers expressly disclaim all liability (including negligence) for any direct or indirect loss or damage which may be suffered by any person in relation to, and take no responsibility for, any information in this Presentation or any error or omission therefrom, and make no representation or warranty, express or implied, as to the currency, accuracy, reliability or completeness of this Presentation.







Services

Databank

Therapeutics

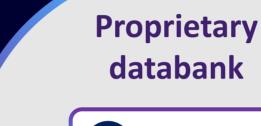


Data

Testing



Microba provides testing and data analysis for a fee to clinicians, consumers and research customers





Health Data



Biome Data

Driving discovery of novel therapeutic leads



Insights



Novel Therapies

Data-driven product platform developing novel live biotherapeutics

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. Ian Frazer

Microbiome testing services business

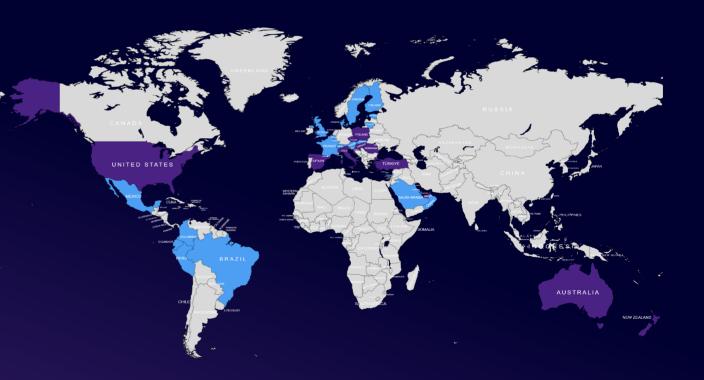








- Continued YoY revenue growth
- Leading bench of global partners provides access to 35 countries with 13 now operational
- At the forefront of rapidly emerging microbiome testing market
- Opportunity to disrupt diagnostic markets including infectious disease testing



Driving global revenues and databank growth

Contracted partner/s operational

Access to this country through existing distribution partner network

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 and isolating single keystone species to develop Live Biotherapeutics.



Novel Pipeline of Microbiome Therapies

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

Experienced Leadership



Luke Reid

CEO









Microba Partners



























Prof Ian Frazer

Co-Founder

Prof Gene Tyson Prof Phil Hugenholtz Co-Founder























Evolution of Microbiome based Therapeutics

First Generation



FDA approval Nov 30 2022 Faeacal doner derived enema

drug product



FDA approval April 27 2023
Faeacal doner derived oral
capsule drug product

Second Generation



Bacterial Consortia



Vedanta Biosciences

Vedanta Biosciences Raises \$106.5M in Funding



SER-155

Phase Ib showing engraftment reduction in pathogens

Next Generation





Single Strain & Small Molecule

MICROBA

MAP 315

Phase I H1 FY2024

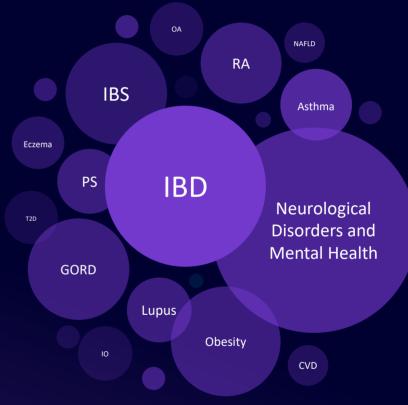
Human data driven insights



Health Data

Biome Data





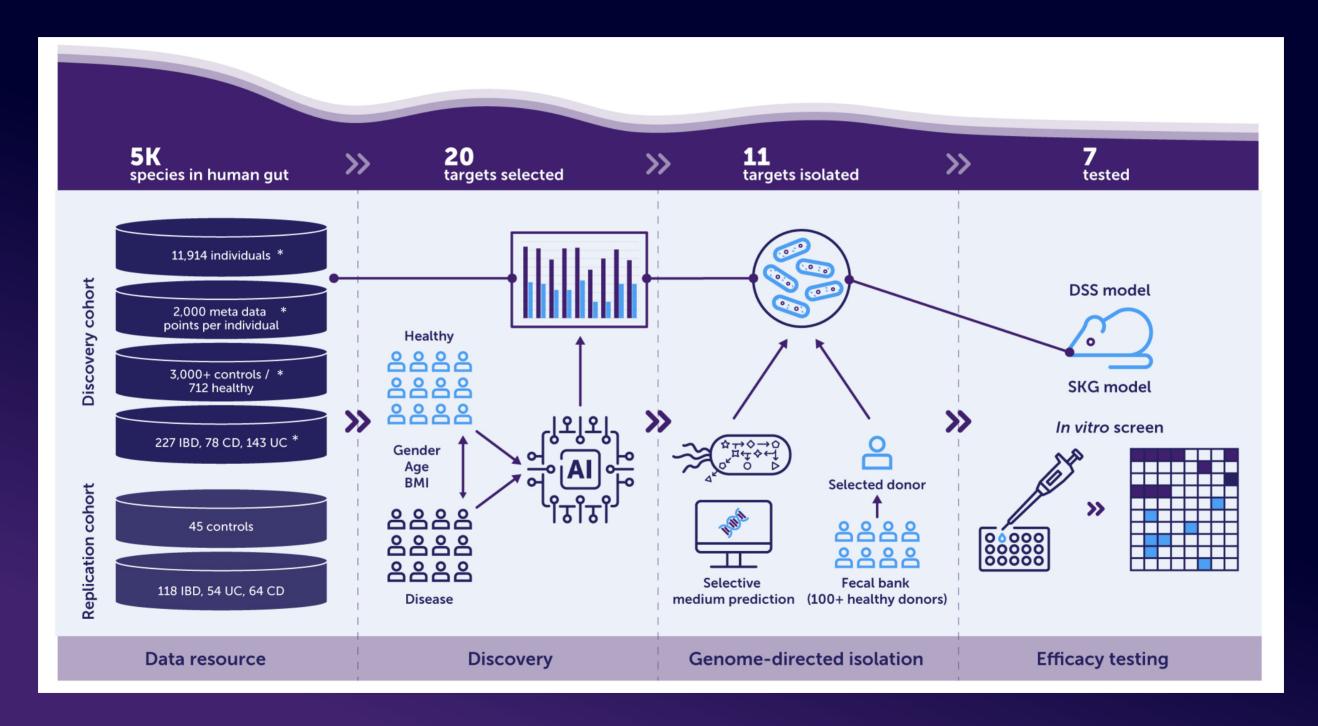
Precision Microbiome
Therapeutics

Therapeutic Pipeline



Inflammatory Bowel Disease

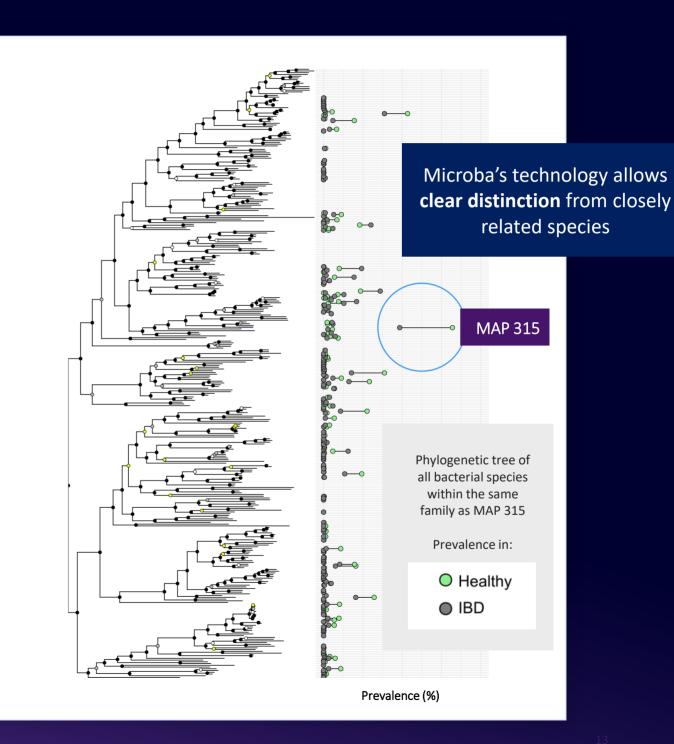
Data-driven platform driving discovery of novel biotherapeutics



IBD Program: Clinical data-driven discovery

Lead candidate MAP 315:

- Identification enabled by Microba's precision microbiome measurements
- A previously uncultivated, uncharacterized species
- Rationally discovered and replicated in human datasets
- Clearly stands out from other species



IBD Program: MAP 315 Biology

colitis mouse models

Acclimatisation

Lipocalin

Improved pathology in induced

DSS colitis model of epithelial injury and repair

DSS 2.5% Day 0 - Day 5

> Control ✓ Prednisone

Daily Treatment (Day 4 - 10)

Histological Score

DSS

15-

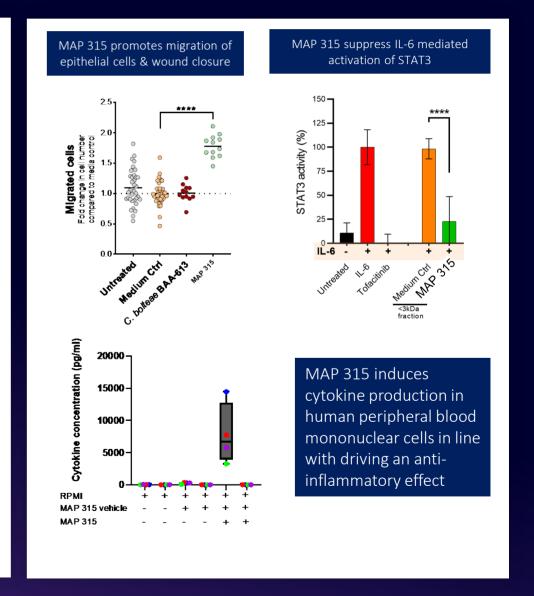
Histopathological score

gut epithelial cell tight junctions

expression

- Supports barrier integrity by modulating
- IFNy + MAP 315 ZO1 area **ZO1** Overlay IFN_γ (100 ng/mL) CCL3 **OCLDN** 350 € 300 MAP 315 ameliorates **5** 250 IFNγ driven 200 changes in 150 cytokine, chemokine and tight junction protein gene

Promotes epithelial cell migration & suppresses cytokine driven inflammatory response



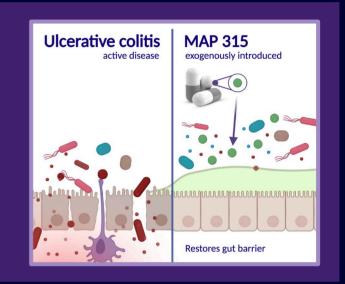
2000-

1500·

Lipocalin (pg/mg feces)

MAP 315 at the forefront of live biotherapeutics a new potential major class of therapeutics

- 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**
- MAP 315 is a clinical stage, orally delivered, single strain live biotherapeutic differentiated from donor derived or microbiome cocktail approaches simplifying CMC and regulatory pathway



\$10B+

Inflammatory Bowel Disease

Ulcerative Colitis & Crohn's Disease 1

Favourable safety profile

All patients regardless of line of therapy

Bringing the promise of precision microbiome therapy to IBD

Expanded Inflammatory
Disease Opportunity

\$50B+

Large market for additional Inflammation-Driven Indications ²

Fibrosis

Atopic Dermatitis/Psoriasis

Rheumatoid Arthritis

Oncology

Advancing response to immune checkpoint inhibitors through the gut microbiome

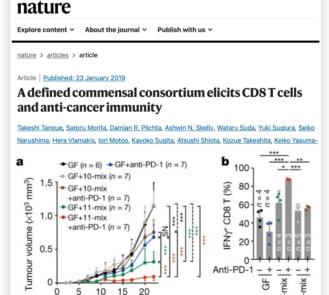
Between <u>42% - 70%</u> of patients do not respond to ICI therapy^{1,2}

Modulation of gut microbiome using **fecal microbiome transplant improved ICI response** in Phase I and II studies^{4,5}

Over 30 published studies support the influence of the gut microbiome on ICI response

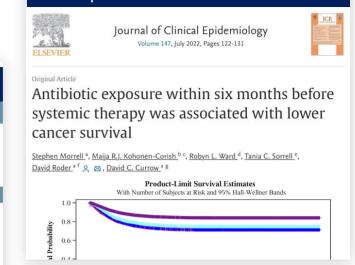
¹Leonardi et al. (2020). *International Journal of Oncology*. DOI: 10.3892/ijo.2020.5088 ²Wolchok et al. (2017). *New England Journal of Medicine*. DOI: 10.1056/NEJMoa1709684 ³Larkin et al. (2019). *New England Journal of Medicine*. DOI: 10.1056/NEJMoa1910836 ⁴Baruch et al. (2020). *Science*. DOI: 10.1126/science.abb5920 ⁵Davar et al. (2021). *Science*. DOI: 10.1126/science.abf3363 * Immune-related adverse events

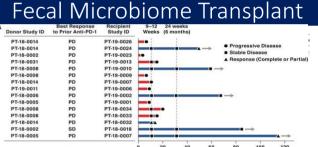
Early Clinical Data ARTICLES | FOCUS Institute, | Market of the specific process of the specific pro

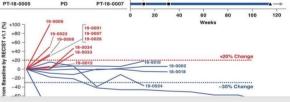


Days after MC38 injection

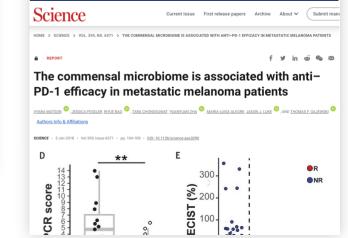
Impact of antibiotics use







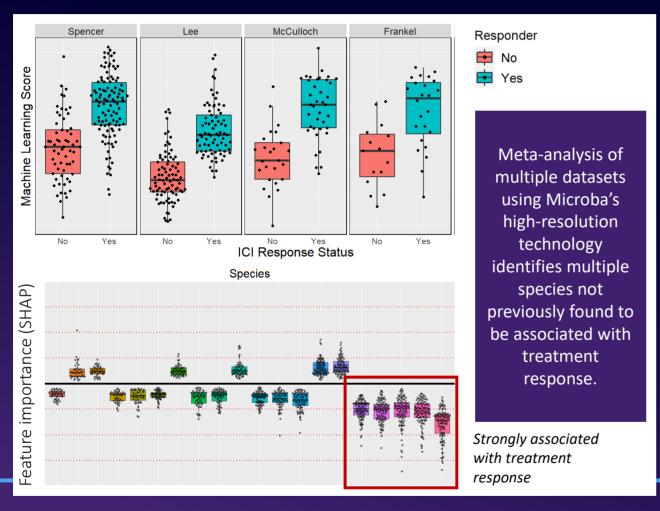
Prediction of response to ICI





Oncology Program: Discovery & POC

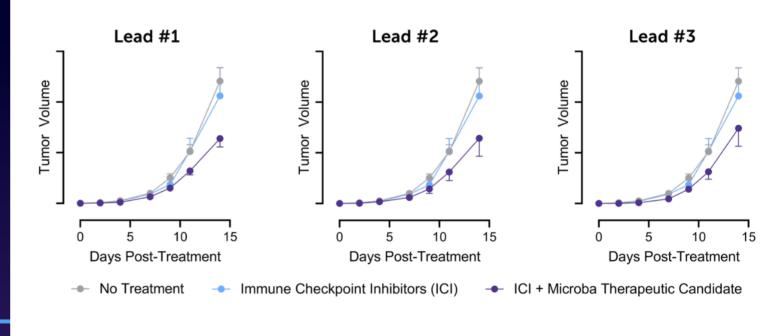
1 Human clinical data driven lead candidate discovery



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.

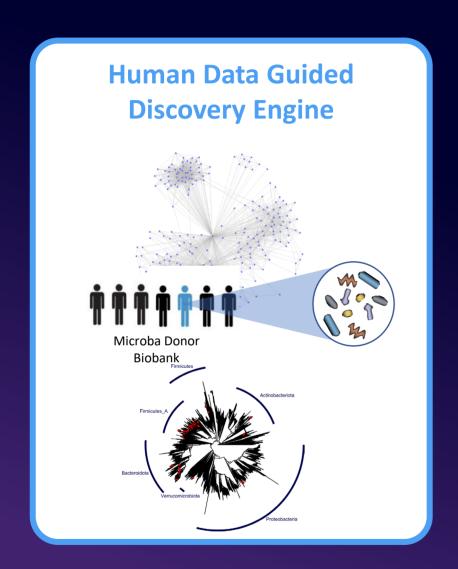


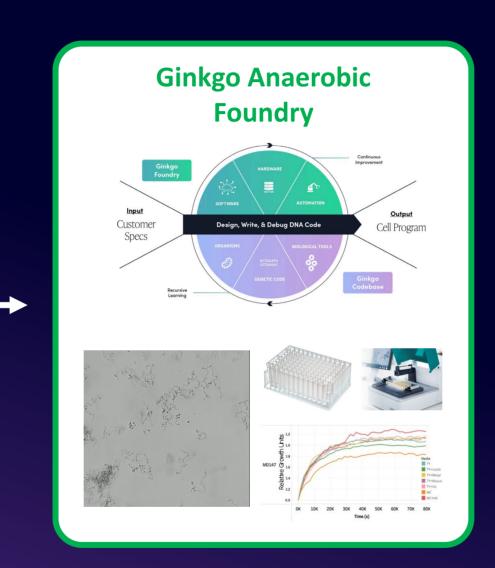
Developing breakthrough microbiome-derived cancer immunotherapy

Autoimmune Disease

Autoimmune: Drug Discovery Program



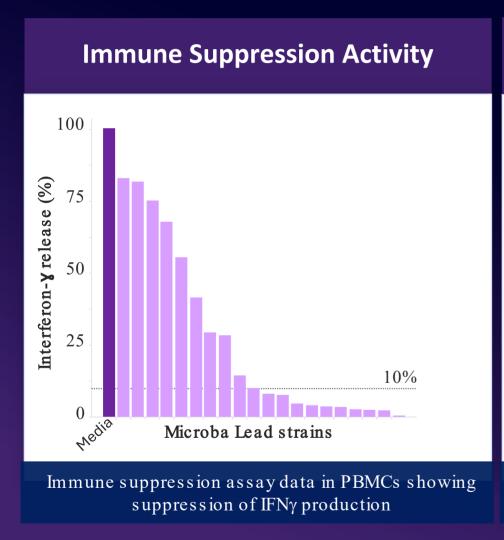




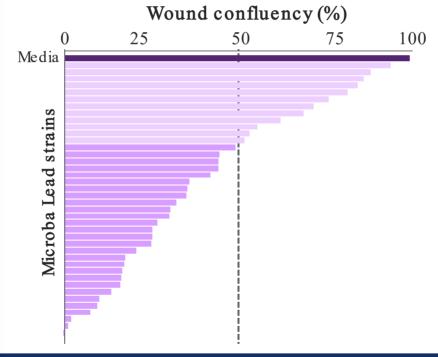


Microba and **Ginkgo Bioworks** have established a Microbiome Drug Discovery Program targeting Autoimmune Diseases including Psoriatic Arthritis, Autoimmune Liver Disease and Lupus.

Autoimmune Program: Significant hit rate and potency observed in primary screens

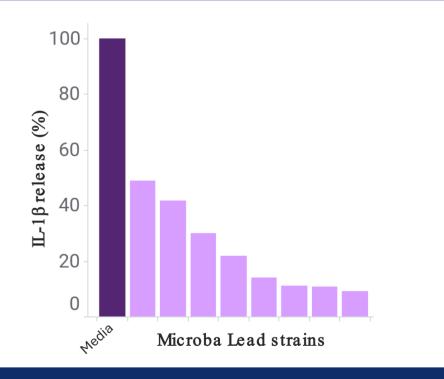


Reduced Cell Migration Activity



Fibroblast Migration Assay data showing activity relevant for fibrotic remodeling

Reduced Inflammasome Activity



Inflammasome activation assay in THP1 cells showing reduction in IL-1β



Some recent IBD and microbiome deals

Licensee / Acquiror	Licensor / Target	Date	Туре	Deal size	Indication / clinical stage
MERCK	Prometheus Biosciences	Apr 2023 (pending)	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)



Upcoming Milestones for 2023



MICROBA

CONTACT



Prof. Trent Munro

SVP, Therapeutics

trent.munro@microba.com



Dr Luke ReidChief Executive Officer
luke.reid@microba.com