

Microba Completes Dosing in Phase I IBD Clinical Trial

- All participants have been successfully dosed in a Phase I Clinical Trial of MAP 315, Microba's lead Therapeutic Program in Inflammatory Bowel Disease (IBD)
- MAP 315, is a novel live biotherapeutic product being developed for the treatment of ulcerative colitis and was discovered and developed using Microba's data-driven therapeutics platform
- Preliminary blinded data indicates that low and high doses were well tolerated across both cohorts

Microba Life Sciences Limited (ASX: MAP) ("Microba" or the "Company") today announces that all participants have been successfully dosed in the Phase I Clinical Trial of MAP 315, in Microba's Therapeutic Program in Inflammatory Bowel Disease (IBD). This is an important clinical development milestone for Microba's drug candidate MAP 315 as a potential new treatment option for the millions of people suffering from ulcerative colitis. Preliminary blinded data indicates that MAP 315 is well tolerated with both low and high dose cohorts completed as planned.

Professor Trent Munro, SVP of Therapeutics at Microba said: "Microba is very thankful to the participants in this trial, and we are pleased to report that all dosing was completed on schedule and appears to have been well tolerated. We are now looking forward to completing all participant visits in the coming weeks and reviewing the complete dataset for the study over the next few months, with final data to be available in December. This takes us another step forward as we look to develop MAP 315 as a new treatment for Inflammatory Bowel Disease sufferers."

MAP 315 Phase 1 Clinical Trial Details

The clinical trial is titled "A Phase 1, Randomised, Double-Blind, Placebo- Controlled, Study to Evaluate the Safety, Tolerability and Pharmacokinetics of MAP 315 in Healthy Adults". The study enrolled 2 cohorts of 16 participants each, who were randomised 3:1 to receive MAP 315 or its matching placebo for 14 consecutive days (2 weeks). The trial is being conducted by Nucleus Network in Melbourne, Australia, under the Company's Human Research Ethics Committee (HREC) approval and in alignment with formal feedback received from an FDA pre-IND engagement. Full results from the trial are expected to be available in December 2023. Full study details can also be found in the Australian New Zealand Clinical Trials Registry (ANZCTR) under study ID: ACTRN12623000291684.

Microba's Novel Drug Candidate MAP 315

MAP 315 was identified using Microba's unique analysis of its large proprietary human databank, demonstrating that this previously uncharacterised and novel bacterial species is commonly observed in healthy individuals but consistently deficient in individuals with IBD. Subsequent pre-clinical investigation of MAP 315 through both *in vitro* and *in vivo* models demonstrated that MAP 315 promotes epithelial restitution and mucosal healing - biological activities that are critical for sustained disease remission but not adequately addressed through existing therapy.

MAP 315 is a live biotherapeutic product (LBP) consisting of lyophilised bacteria in an enteric coated capsule which is orally administered and being developed as an investigational product for the treatment of ulcerative colitis (UC). Microba worked in partnership with leading microbiome contract drug manufacturer Bacthera to produce GMP compliant MAP 315 at large-scale in their state-of-the-art facilities in Europe to supply material for the MAP 315 clinical trial.

Inflammatory Bowel Disease – Large unmet need & commercial opportunity

IBD causes prolonged inflammation of the digestive tract and now affects more than 7 million people globally, with this

number increasing each year¹. Ulcerative colitis (UC) is one of the two major forms of IBD, which results in inflammation and ulcers (sores) in the digestive tract, causing a debilitating chronic condition. Patients are currently treated with anti-inflammatory and immunomodulatory medication to dampen the disease and control symptoms, often with significant side effects. These available treatment options commonly fail, with more than 50% of patients unable to achieve sustained remission², which sees them experiencing regular episodes of inflammation, diarrhoea, bleeding and abdominal pain³, with as many as 25% of patients requiring hospitalisation⁴. The market for UC treatment was valued at US\$7.5 billion in 2020 and is forecast to grow to US\$10.8 billion by 2030⁵. Microba's novel drug candidate MAP 315 presents an opportunity to improve the current standard of care and treatment for millions of people suffering from the debilitating effects of UC.

Therapeutic Platform & Programs

There is a growing body of evidence that the gut microbiome plays a central role in the maintenance of health and the development of chronic disease. With microbiome-based therapeutics now in clinical development and the first FDA approvals, these novel drugs represent an exciting new opportunity for the treatment of chronic diseases that are underserved by current pharmaceuticals.

Microba is at the forefront of this field using its advanced proprietary metagenomics technology developed by leading Australian researchers in the top 1% of cited researchers globally. Using this technology, Microba has established a data-driven platform for drug discovery and development from the human gut microbiome. This platform leverages a large, growing, proprietary databank collected through the Company's Microbiome Testing Services, and is generating multiple potent therapeutic candidates to address chronic diseases. Microba has established three therapeutic programs spanning IBD, Immuno-Oncology and Autoimmune Diseases, with lead candidate MAP 315 under the Company's IBD program the first program to enter human clinical trials.

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

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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.

¹ [https://www.thelancet.com/journals/langas/article/PIIS2468-1253\(19\)30333-4/fulltext](https://www.thelancet.com/journals/langas/article/PIIS2468-1253(19)30333-4/fulltext)

² <https://www.crohnscolitisfoundation.org/sites/default/files/2019-02/Updated%20IBD%20Factbook.pdf>

³ Scribano, M.L. Adverse events of IBD therapies. *Inflamm Bowel Dis.* (2008). <https://doi.org/10.1002/ibd.20702>.

⁴ Pola, S. et al. Strategies for the care of adults hospitalized for active ulcerative colitis. *Clin Gastroenterol Hepatol.* (2012). <https://doi.org/10.1016/j.cgh.2012.07.006>.

⁵ <https://www.nature.com/articles/d41573-021-00194-5>, <https://www.alliedmarketresearch.com/ulcerative-colitis-market>