



 Cluster of Excellence
Microbiomes Drive
Planetary Health

We're hiring!

Join us at the threshold between human and environmental microbiome research.

PhD, PostDoc, and technician positions for “Microbiomes Drive Planetary Health” program

The recently established **Cluster of Excellence "Microbiomes Drive Planetary Health"** unites microbiome research in Austria, bringing together 8 leading research institutions with strengths in many highly relevant areas of microbiome research, from the human microbiome to global change microbiology.

Our goal is to strategically link environmental, human, and methodological microbiome research to explore and understand fundamental principles of microbiomes across systems. This program is funded by the FWF Exzellenzinitiative excellent=Austria. The first, 5-year period of funding for "Microbiomes drive Planetary Health" begins in October 2023.

We are looking for >30 postdoctoral research associates, >16 PhD students and >10 technicians to join our interdisciplinary research team at 8 institutions across Austria. We invite applications from excellent, curious, and open-minded scientists to develop their potential in one of 17 work packages, spanning environmental, human, and methodological topics.

Involved institutions:

- Austrian Institute of Technology (AIT)
- Institute of Science and Technology Austria (ISTA)
- Johannes Kepler University Linz (JKU)
- Medical University of Graz
- Medical University of Vienna
- Research Center for Molecular Medicine of the Austrian Academy of Sciences (CeMM)
- University of Vienna

- Vienna University of Technology (TU Wien)

Overview of work packages:

- WP 1.1: The Small Intestine: an Underexplored Habitat with Implication for Human Health
- WP 1.2: The Influence of Invasive Species on Host-Associated Microbiomes
- WP 2.1: Cross-Kingdom Interactions in the Ectomycorrhizal Symbiosis
- WP 2.2: Control of Eukaryotic Microbial Populations by Viral Parasites
- WP 2.3: Probing Interkingdom Crosstalk during Inflammation
- WP 3.1: Impact of Drugs on Microbiomes in Humans and Wastewater Treatment
- WP 3.2: Impact of Emerging Pollutants on Microbiomes across Systems
- WP 4.1: Microbial Interactions under Climate Extremes
- WP 4.2: Perturbations of Permafrost Microbiomes and the Climate Feedback
- WP 4.3: Control of Nitrous Oxide Emissions in Soils
- WP 5.1: Wastewater Microbiomes for Next-Gen Public Health Monitoring
- WP 5.2: Microbiome Modification by Fecal Microbiota Transplantation
- WP 5.3: Eavesdropping Interdomain Signals and Modulators
- WP 6.1: Microbiome-Based Improvement of Nitrogen and Phosphorus Nutrition in Crop Production
- WP 6.2: Microbiome-Enhanced Silicate Weathering
- WP 6.3: Role of Selective Sulfur Nutrients across Human and Environmental Microbiomes and for Precision Microbiome Editing
- WP 7.1: Microbial Growth, Biomass, and Carbon Use Efficiency
- WP 7.2: Microbial Interaction Mechanisms and Networks in Complex Microbiomes
- WP 7.3: The Effect of Oscillating Environmental Conditions and Perturbations on Microbiomes

Alongside these research positions, we are also looking for PostDocs and technicians to support and strengthen our method facilities – ranging from environmental mass spectrometry to bioinformatics. To explore open positions at our facilities, visit microplanet.at/mf.

Successful candidates (PhDs, PostDocs and technicians) will have full access to 10 cutting-edge method facilities and will benefit from a unique and comprehensive mentoring and training program, including training in microbiome methods, transferable skills and entrepreneurship, as well as active career planning.

All PhD positions are fully funded for 4 years. The duration of advertised PostDoc and technician positions varies (up to 4 years).

Applications are projected to open in **mid-July**.

Review of applications begins immediately after **August 15th, 2023**, and continues until positions are filled.

Details on the projects, positions, required qualifications, and application procedure can be found at microplanet.at.