



Health + Life Science Alliance  
Heidelberg Mannheim



UNIVERSITÄT  
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ZUKUNFT  
SEIT 1386



# APPLIED WORKSHOP ON MICROBIOME DATA ANALYSIS

20 November 2025

At the Heidelberg Center Latin America in  
Providencia, Santiago de Chile

## Aims

This is a workshop for anyone who wants to perform basic analyses of microbiome data. Prior knowledge of R and basic statistics is strongly recommended.

The workshop is designed as a mixture of lectures and practical exercises. Please bring your laptop with you! We will use open-source datasets, tools and software to perform microbiome analyses and visualise the results (tidyverse, ggplot, SIAMCAT). The materials will be made available to selected participants before the start of the workshop.

## Lecturers

- Justo Lorenzo Bermejo, Renzo Salazar Sanchez, Statistical Genetics Research Group, Heidelberg University, Germany
- Nicolai Karcher, Molecular Systems Biology Unit, European Molecular Biology Laboratory, Heidelberg, Germany
- Erick Marcelo Riquelme Sanchez, Pontificia Universidad Católica de Chile
- Andreas Teufel, Hepatology Section, Medical Faculty Mannheim, Heidelberg University, Germany

## Programme

Time	Topic	Lecturer
08:30	Registration	
09:00	Welcome and introduction to the workshop	Justo Lorenzo Bermejo
09:45	Introduction to the microbiome and its investigation	Nicolai Karcher
11:00	Coffee break	
11:15	Practical experience analysing microbiome data on gallbladder cancer and gallstone disease	Renzo Salazar
12:45	From microbiome profile to interventional approaches	Erick Riquelme
13:30	Lunch	
14:30	Microbiome changes due to bariatric surgery	Andreas Teufel
15:15	Hands-on session	Nicolai Karcher
17:30	Workshop wrap-up	All participants

**Registration until 10 November 2025** Please send your name, email address, position, institution, field of research and motivation for participation (max. 50 words) with the subject 'Workshop Microbiome' to [EULAT\\_Eradicate\\_GBC@imbi.uni-heidelberg.de](mailto:EULAT_Eradicate_GBC@imbi.uni-heidelberg.de)

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