



7th Symposium of the Austrian Microbiome Initiative (AMICI)

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17th June 2024

Banquet hall, University of Veterinary Medicine Vienna

09:00-10:00 Registration

10:00- 10:15 Welcome notes from Evelyne Selberherr (organizing committee), Otto Doblhoff-Dier (Vice-Rector for Research, Vetmeduni Vienna) and ÖGHMP

*****Session: Theoretical ecology***** (Chair: Xiaoqian Annie Yu)

10:15-10:55 KEYNOTE 1 Otto Cordero, Massachusetts Institute of Technology, Cambridge, MA, USA *Theoretical ecology of microbial communities*

10:55-11:30 KEYNOTE 2 Daniel Amor, Ecole Normale Supérieure, Université PSL *Community transitions and the emergence of alternative stable states in microbial systems*

*****Coffee break*** (20 minutes)**

11:50 Welcome note from Matthias Horn (MAINTAIN PhD program University of Vienna)

*****MAINTAIN session 1***** (Chair: Nataliia Solntceva)

12:00-12:20 Julia Krasenbrink
Role of the green-diet-derived, exclusive nutrient sulfoquinovose in gut microbiome-mammalian host interactions

12:20-12:40 Teresa Winter
Ecology of Zoothamnium assemblages on experimental shallow water wood falls

12:40-13:00 Huifeng Hu
Global abundance patterns, diversity, and ecology of Patescibacteria in wastewater treatment plants

*****Networking event with lunch *** (60 minutes)**

*****MAINTAIN session 2***** (Chair: Lukas Leibrecht)

14:00-14:20 Hamid Rasoulimehrabani

Evaluating the effect of candidate prebiotics in the human gut microbiota by activity-based cell sorting and targeted isolation

14:20-14:40 Marta Sudo

Distinct ecological strategies emerge from host-microbe-environment interactions

14:40-15:00 Michael Predl

Investigating syntrophy in archaea bacteria co-cultures with metabolic modeling

*****Coffee break***** (15 minutes)

*****Session: Interconnections in microbial ecology: Earth, space, and environmental impacts***** (Chair: Evelyne Selberherr)

15:15-15:55 KEYNOTE 3 Mark Anthony, University of Vienna

Forest soil biodiversity across Europe and linkages to carbon storage

15:55- 16:15 Sara Ricci, University of Veterinary Medicine Vienna

Proposing a novel mechanism in host-microbiome crosstalk: small RNAs and mitochondria

16:15-16:40 Alexander Mahnert, Medical University of Graz

Planetary Protection - quality management in the search for microbial life in the solar system - new methods for new challenges

16:40-17:00 Heribert Insam, Professor i.R.

Microbes and climate

*****Closing remarks (organizing committee) and come together event*****

Thanks to our co-organizers...

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