

Microbial community ecology: bridging theory and observations

Wednesday 12 July 2023

Talks & discussion - Lecture hall - interim building (09:45-10:45)

-Conveners: Emil Mallmin

time	[id] title	presenter
09:45	[22] From Patterns to Mechanism to Prediction in Microbiome Science	ODWYER, James

Talks & discussion - Lecture hall - interim building (11:00-12:00)

-Conveners: Jules Fraboul

time	[id] title	presenter
11:00	[33] Dynamics of high-diversity spatially extended heterogeneous ecosystems	BIROLI, Giulio

Talks & discussion - Lecture hall - interim building (13:00-14:30)

-Conveners: Martina Dal Bello

time	[id] title	presenter
13:00	[40] What I learned from kefir microbiome	PATIL, Kiran Raosaheb
13:55	[30] Describing microbial communities using models of cellular resource allocation	STEUER, Ralf

Talks & discussion - Lecture hall - interim building (14:45-15:45)

-Conveners: Giulia Garcia Lorenzana

time	[id] title	presenter
14:45	[19] KillerProfiles – Unraveling the effects of deeply divergent predators on the evolution of microbial communities	KRAMER, Jos
15:15	[18] The implicit Assumptions of Functional Responses	PALAMARA, Gian Marco

Talks & discussion - Lecture hall - interim building (20:00-21:00)

-Conveners: Silvia De Monte

time	[id] title	presenter
20:00	[24] Statistical analysis of ocean microbes	HYUN, Sangwon

Thursday 13 July 2023

Talks & discussion - Lecture hall - interim building (09:00-10:30)

-Conveners: **Giulia Garcia Lorenzana**

time	[id] title	presenter
09:00	[34] Generalized Random Lotka-Volterra model: number of equilibria, glassiness, and beyond	ALTIERI, Ada
09:30	[15] Breakdown of Random-Matrix Universality in Persistent Lotka-Volterra Communities	BARON, Joseph
10:00	[16] Local sign stability and its implications for spectra of sparse random graphs and stability of ecosystems	VALIGI, Pietro

Talks & discussion - Lecture hall - interim building (11:00-12:00)

-Conveners: **Giulia Garcia Lorenzana**

time	[id] title	presenter
11:00	[12] Toward predicting and controlling microbial community dynamics	AMOR, Daniel

Talks & discussion - Lecture hall - interim building (13:00-14:00)

-Conveners: **Jules Fraboul**

time	[id] title	presenter
13:00	[23] Single Biotic Interactions Shape Composition of Microbial Communities but Historical Contingency and Evolution Determine Functionality	SCHEUERL, Thomas
13:30	[6] Improving Collective Function in Microbial Communities through Bias-Driven Selection	PARK, Hyejin

Talks & discussion - Lecture hall - interim building (14:10-15:10)

-Conveners: **Silvia De Monte**

time	[id] title	presenter
14:10	[20] Artificial evolution of artificial plant- and algae-associated bacterial communities	GARRIDO-OTER, Ruben

Talks & discussion - Lecture hall - interim building (15:30-19:00)

-Conveners: **Martina Dal Bello**

time	[id] title	presenter
15:30	[11] Exploring the effects of metabolic mutations on cell-cell interactions in spatially structured synthetic microbial communities	RAMESH, Divvyaa
16:00	[13] Sugar-acid dichotomy in the carbon catabolic preferences of heterotrophic bacteria	GRALKA, Matti

Friday 14 July 2023

Talks & discussion - Lecture hall - interim building (09:00-10:30)

-Conveners: Emil Mallmin

time	[id] title	presenter
09:00	[41] Bacteria-bacteria interactions between gut-associated Bacteroides strains	FOKT, Hanna
09:55	[31] Mixed strain pathogen populations accelerate the evolution of antibiotic resistance in patients	WHEATLEY, Rachel

Talks & discussion - Lecture hall - interim building (11:00-12:00)

-Conveners: Emil Mallmin

time	[id] title	presenter
11:00	[37] Empirical modeling of ecological dynamics	MUNCH, Stephan

Talks & discussion - Lecture hall - interim building (13:00-14:30)

-Conveners: Martina Dal Bello

time	[id] title	presenter
13:00	[38] On the structuring of bacterioplankton seasonal succession and interannual variation	PINHASSI, Jarone
13:55	[10] Nitrogen fixation increases with diazotroph richness in the global ocean	ERIKSSON, Dominic

Talks & discussion - Lecture hall - interim building (14:45-15:45)

-Conveners: Silvia De Monte

time	[id] title	presenter
14:45	[35] Illuminating interactions between microbial cells in the wild	WORDEN, Alexandra