## SMEEB 2024 Schedule

			Dov. 1 28 <sup>th</sup> May
09:30 - 09:45		Opening	Day 1 Zor May Tuesday
09:45 – 10:45	É	Sara Mitri	Predicting and controlling the ecological dynamics of small bacterial communities
10:45 - 11:15	<b>☆</b>		Predicting and controlling the ecological dynamics of small bacterial communities
11:15 – 11:35		Alan Pacheco	Model-guided discovery and design of plant-associated microbial interaction networks
11:35 – 11:55		Violeta Calleja Solanas	Stochastic and deterministic drivers of temporal variability in species interactions
11:55 – 12:15		Sandro Meloni	Higher-order interactions and the stability of competitive ecological communities on networks
12:15 – 14:30	٨	Lunch	
14:30 – 15:30	Ė	Tobias Galla	Non-Gaussian random matrices predict the stability of feasible Lotka-Volterra communities
15:30 – 15:50		Teppo Hiltunen	The Impact of Evolution on Ecological Resilience and Recovery in Experimental Microbial Communities
15:50 – 16:20	\$55	Coffee	
16:20 – 16:40		Ernesto Berrios-Caro	Adaptation of bacterial populations exposed to periodic bottlenecks and antibiotic drug pressure
16:40 – 17:00		Massimo Amicone	A competition-detoxification balance controls the evolution of resistance in simple microbial communities.
17:00 – 17:20		Mauro Mobilia	Evolution of cooperative antimicrobial resistance under coupled demographic and environmental fluctuations
17:20 – 17:40		Meike Wortel	The effect of ecological feedback on the evolution of anti-microbial resistance
17:40 – 18:30		Discussion	
			<b>Day 2</b> 29 <sup>th</sup> May Wednesday
09:00 – 10:00	Ė	Giulio Biroli	Dynamical regimes of high-diversity spatially extended heterogeneous ecosystems
10:00 – 10:20		Giulia Lorenzana	Interactions and migration rescuing ecological diversity
10:20 – 10:50	555	Coffee	
10:50 – 11:10		Alessia Annibale	Dynamically selected steady states and criticality in non-reciprocal networks
11:10 – 11:30		Francesco Ferraro	Extensions of classical Dynamical Mean-Field Theory and applications
11:30 – 11:50		Giorgio Nicoletti	Spatially disordered environments stabilize competitive metacommunities
11:50 – 12:10		Loic Marrec	Quantifying the impact of genotype-dependent gene flow on mutation fixation in subdivided populations
12:10 – 14:30		Lunch	
14:30 – 15:30	 廩	Silvia De Monte	Chaotic turnover of strongly interacting species: a deterministic model and its stochastic
15:30 – 15:50		Joseph Baron	approximation  Towards a taxonomy of ecosystem interaction structures
15:50 – 16:20	555	Coffee	
16:20 – 16:40		lan Dewan	Adaption through copy number variation of eccDNA in yeast
16:40 – 17:00		Claude Loverdo	Estimating in vivo dynamics of gut bacteria
17:00 – 17:20		Cameron Strachan	Selection and metabolic trade-offs shape fundamental microbial growth strategies in the gut microbiome
17:20 – 18:00		Poster Session	
18:00 – 18:30		Discussion	

## SMEEB 2024 Schedule

Day 3 30<sup>th</sup> May Thursday

09:00 – 10:00	Ė	Valentina Ros	The multiple equilibria of many-species ecosystems: how many, how stable, how relevant?
03.00 - 10.00	*	Valentina ROS	The multiple equilibria of many-species ecosystems: now many, now stable, now relevant?
10:00 – 10:20		Timur Aslyamov	Theory of Nonequilibrium Response for Markov Jump Processes
10:20 – 10:50	\$55	Coffee	
10:50 – 11:10		Ivan di Terlizzi	Variance Sum Rule for entropy production estimation
11:10 – 11:30		Gian Marco Palamara	Parameter Identifiability in Stochastic Ecological Models
11:30 – 11:50		Amanda Azevedo	Multilevel selection models for microbiomes
11:50 – 12:10		Will Shoemaker	Macroecological laws in coarse-grained microbial systems
12:10 – 14:30	*	Lunch	
14:30 – 15:30	•	Seppe Kuehn	Simplicity from complexity in microbial communities
15:30 – 15:50		Maxime Ardre	The Role of Extreme Value Theory in Understanding Inoculum Size Effects on Lag Phase Duration
15:50 – 16:20	\$55	Coffee	
16:20 – 16:40		Garima Rani	An entropic insight into growing bacterial colonies
16:40 – 17:00		Amir Erez	Grow now, pay later: when should a bacterium go into debt?
17:00 – 17:20		Carlo Albert	Scaling Laws of Microbial Growth
17:20 – 18:00		Poster Session	
18:00 – 18:30		Discussion	
19:30 onwards		Social Dinner	
			Day 4 31st May Friday

10:00 – 10:20	Enrico Colizzi	Evolutionary modelling of stochastic gene regulation reveals noise-driven adaptation mechanisms
10:20 – 10:50	Coffee	
10:50 – 11:10	Francesco Zamponi	Emergent time scales of epistasis in protein evolution
11:10 – 12:10	Anne-Florence Bitbol	Impact of population spatial structure on mutant fixation, from models on graphs to the gut
12:10 – 12:20	Closing	

TBA

Scan here for keynote abstracts

09:00 - 10:00 🛕 Otto Cordero



Scan here for posters list

