

	26 June 2023	27 June 2023	28 June 2023	29 June 2023	30 June 2023
		Theme 1A: Microbe-microbe interactions Chairs: Ines M. Mulec Ákos T. Kovács	Theme 3: Host-microbe symbioses Chairs: Itzik Mizrahi, Rodrigo Costa	Theme 2B: Horizontal gene transfer and barriers Chairs: Konny Smalla, Jonas S. Madsen	Theme 4: New approaches/technologies in microbial ecology Theme 5: Microbes and the green transition Chairs: Stefan Bertilsson, Timothy M. Vogel, Prof. Dr. Christoph C. Tebbe
08:00		Registration			
		Session 1	Session 5	Session 9	Session 13
09:00-09:35		Multi-level selection favours the evolution of mutualistic cooperation in microbial communities Christian Kost	Capturing unique inter-individual features of host-microbiome interaction processes through personalization of human gut models Tom Van de Wiele	Breaking barriers: exploring novel immune evasion paradigms Rafael P. Redondo	Illuminating Microbial Collectives through Transcriptome Imaging Daniel Dar
09:35-09:55		Cell-cell connection mediated by bacterial stalks facilitates metabolic cross-feeding Miaoxiao Wang	Digestive exophagy of bacterial biofilms by the amoeba predators histolytica and its impact on stress tolerance, antibiotic resistance, and cytotoxicity Ilana Kolodkin-Gal	CRISPR-Cas immunity hitchhikes with beneficial mobile genetic elements increasing the spread of drug resistance Iolanda Domingues	Improvement of hydrogen production by genetic modification of cyanobacterial strains Galyna Kufryk
09:55-10:15		Succession of microbial community composition mirrors the secondary metabolite potential during marine biofilm development Pernille Bech	Sex predicts gut microbiota variations in wild yellow baboons (Papio cynocephalus) Marina Bambi	High diversity of the emerging pathogen Acinetobacter baumannii in livestock and human wastewaters Stefanie Glaeser	How do two strains of lactic acid bacteria cooperate to improve soy juice fermentation? Hélène Falentin
10:15-10:35		Cooperation facilitates bacterial niche expansion Chunhui Hao	Composting in ant-plant nests? Metabolic potential of bacterial communities for degrading chitin- and cellulose-rich substrates in ant-made patches Verónica Barrajon-Santos	Diverse anti-defense systems in the leading region of plasmids David Burstein	De novo assembled single-cell transcriptomes from aquatic phytoflagellates reveal metabolically distinct dormant cell types Aditya Jeevannavar
10:35-10:55		Coffee	Coffee	Coffee	Coffee
		Session 2	Session 6	Session 10	Session 14
10:55-11:30		Functional impacts of interspecies interactions in mixed biofilms Mette Burmølle	Titel tba. Clara Belzer	Differences in vertical and horizontal transmission dynamics shape plasmid distribution in clinical enterobacteria Alvaro San Millan	Titel tba. Manuel Liebeke
11:30-11:50		Pseudomonas stutzeri changes the fitness landscape of evolving Bacillus velezensis Xinli Sun	Fragrant or stinky - The nasal microbiome and its role in human olfactory performance Christina Kumpitsch	Carbapenem hyper-resistance mediated by blaNDM-1 gene adaptive amplification Mario Pulido-Vadillo	New perspectives on pangenomes, intra-species diversity and ecological and evolutionary dynamics in freshwater bacteria Stefan Bertilsson
11:50-12:10		Nutrient-dependent interactions between Salmonella enterica serovar Typhimurium and Bacillus subtilis in biofilms Eli Podnar	Partners forever! A surprisingly high diversity of Acetobacter is maintained throughout long-term experimental evolution of Drosophila simulans populations. Bosco Gracia-Alvira	Anti-defense systems in archaeal viruses: predicting novel acrs and acas, redefining AcrIII-1, and perspectives on the defense landscape of archaea Laura Martinez Alvarez	Analysis of over 100,000 genome-scale metabolic reconstructions indicates a non-random distribution of tyrosine metabolic niches in the prokaryotic phylogenetic tree Ulisses Nunes da Rocha
12:10-13:10		LUNCH	LUNCH	LUNCH	LUNCH
12:20-12:50		Symposium	Symposium	Symposium	
13:10-14:10		Postersession 1	Postersession 3	Postersession 5	Postersession 7
				Theme 4: New approaches/technologies in microbial ecology Theme 5: Microbes and the green transition Chairs: Stefan Bertilsson, Timothy M. Vogel, Prof. Dr. Christoph C. Tebbe	
		Session 3	Session 7	Session 11	Session 15: Shared session of all themes

14:10-14:30		Titel tba. Edze Westra	Rumen Ecosystem as a Model for Understanding Trophic Networks: A Top-Down Bottom-Up Approach to Deciphering the Microbiome-Metabolome Interplay Itzik Mizrahi	The ecology of the seed microbiome and its contribution to plant stress resilience Ashley Shade	T6SS-mediated competition limits seedling transmission of <i>Xanthomonas campestris</i> pv. <i>campestris</i> and drives assembly of seed-associated bacterial communities in vitro Tiffany Garin
14:30-14:45					Gut microbiome functions enriched in <i>C. elegans</i> Johannes Zimmermann
14:45-15:05		Bacterial predators drive the evolution and maintenance of antibiotic resistance in complex microbial communities Samay Pande	Predicting the stability of gut microbial communities using viral-prokaryotic genome-centric analysis machine learning in atopic eczema patients Die Hu	Natural product biosynthetic potential reflects macroevolutionary diversification within a widely distributed bacterial taxon Rodrigo Costa	Biosynthetic amplicon geneFISH for selective extraction of secondary metabolite producers from environmental microbiomes Yannick Buijs
15:05-15:25		Characterising active virus infection of nitrifying archaea and bacteria in soil Graeme Nicol	How to drive the transmission of seed bacterial communities to seedling Alain Sarniguet	Microplastics increase the selective potential of antibiotics at sub-inhibitory concentrations Concepcion Sanchez-Cid	Closing Local Committee
15:25-15:40		<i>Coffee</i>	<i>Coffee</i>	<i>Coffee</i>	<i>End of conference</i>
		Theme 2A: Horizontal gene transfer and barriers Chairs: Konny Smalla, Jonas S. Madsen			
		Session 4	Session 8: shared session of all themes	Session 12	
15:40-16:00	Registration	From micro to macroscales: Challenges to incorporate horizontal gene transfer into risk assessment of AMR Heike Schmitt	Quantification of microbial ecology in natural communities: Pathway selection in anaerobic fermentation Rebeca Gonzalez-Cabaleiro	Titel tba. Kornelia Smalla	
16:00-16:20			Control of <i>Bacillus subtilis</i> by large prophage elements – physiology, ecology and evolution perspective. Anna Dragos		
16:20-16:40		<i>Pseudomonas</i> plasmids revisited: new insights and comprehensive analysis of their features for horizontal gene transfer Masaki Shintani	The global ecology of archaea Alexander Mahnert	The fate of pathogens, antibiotics, and resistance genes in treated wastewater irrigated soils and crops Osnat Gillor	
16:40-17:00	Opening Søren J. Sørensen	β -lactamase production by gut commensals rescues sensitive bacteria and sustains microbiome diversity Asmus Kalckar Olesen	A previously uncharacterised hydrogenase dominates fermentation in the human gastrointestinal tract Caitlin Welsh	The hidden effects of liming on microbial community members Jasper Schierstaedt	
17:00-18:00	Opening lecture: Seeing is understanding: Next generation chemical imaging for super-fast functional analyses of microbiomes Michael Wagner	Postersession 2	Postersession 4	Postersession 6	
18:00-19:30	Welcome Reception				
19:00-23.59				Conference Dinner at Banegården/Copenhagen	