

Thursday 18 August

MS16 & AS16.1 - Soil microbial ecology

Auditorium A

10:00 - 12:00 & 14:00 - 16:00



	Time	Presenting Author	Affiliation	Title
Invited Talk	10:30 - 11:00	Stefan Geisen	Wageningen University, the Netherlands	Novel insights on the distribution and functional importance of soil microbiome predators
Oral Presentation	11:00 - 11:15	Jingjing Chang	Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences, China / Netherlands Institute of Ecology, Netherlands	Rice domestication gradually loses the nitrogen fixation function of the wild rice rhizosphere microbiome
Oral Presentation	11:15 - 11:30	Luiz A. Domeignoz-Horta	University of Zurich, Switzerland	Unearthing the mechanisms behind soil carbon retention and linking them to agricultural practices
Oral Presentation	11:30 - 11:45	Sabrina Festa	CINDEFI (CONICET-UNLP), Argentina	Integrating metagenomics, 16S rRNA gene metabarcoding and culture approaches: a better outlook for functional profiling of a PAH-contaminated soil
Poster Pitch	11:45 - 11:47	Monika Fischer	UC Berkeley, USA	Low-intensity prescribed fire selects for a pyrophilous subcommunity in the soil microbiome of a mixed conifer forest in northern California, USA
Poster Pitch	11:48 - 11:50	Verena Groß	University of Greifswald, Germany	Quantitative metatranscriptomics reveals dynamic foodweb structures in microbiomes of grassland soils across depths and seasons
Poster Pitch	11:50 - 11:52	Sergio Guajardo-Leiva	Universidad de Talca, Chile	Southern roots: viral ecogenomics in the rhizosphere of native antarctic vascular plants
Poster Pitch	11:52 - 11:54	Thierry Heger	Soil Science and Environment Group, Changins, HES-SO University of Applied Sciences and Arts Western Switzerland, Switzerland	Toward the use of protists as bioindicators of multiple stresses in agricultural soils: a case study in vineyard ecosystems
Poster Pitch	11:55 - 11:57	Shabana Hoosein	Colorado State University, USA	Exploring AM fungal and bacterial cooccurrence network interactions to elucidate patterns in plant-soil diversity feedbacks
Poster Pitch	11:58 - 12:00	Poster Pitch Cancelled		

	Time	Presenting Author	Affiliation	Title
Oral Presentation	12:00 - 12:15	David Fidler	Bangor University, United Kingdom	Metagenomics and high-throughput in situ cultivation reveal how plant exclusion alters grassland microbial community and lignocellulolytic potential
Oral Presentation	12:15 - 12:30	Nora Hamovit	University of Maryland, USA	Investigating the microbial community composition and activity in the soil of a restored freshwater wetland using ¹³ C-DNA stable isotope probing
Lunch Break	12:30 - 14:00			

	Time	Presenting Author	Affiliation	Title
Invited Talk	14:00 - 14:30	Joanne Emerson	University of California, Davis, USA	Exploring the soil virosphere
Oral Presentation	14:30 - 14:45	Pedro Lebre	University of Pretoria, South Africa	Biogeographical survey of the soil microbiome across sub-Saharan Africa: structure, drivers and predicted changes
Oral Presentation	14:45 - 15:00	Julie LEROUX	University of Sherbrooke, Canada	Exploring the impact of soil bacteria interaction on the nitrogen fixation efficiency of <i>A. vinelandii</i> , across gradients of trace metals and nitrogen
Oral Presentation	15:00 - 15:15	Mary S Lipton	Pacific Northwest National Laboratory, USA	Metapheomic profiling of the microbiome response to soil rewetting through multi-analytic and multi-omic data integration
Poster Pitch and Poster	15:15 - 15:17	Thomas B.N. Jensen	Center for Microbial Communities, Department of Chemistry and Bioscience, Aalborg University, Aalborg, Denmark	Enabling detection of ecological patterns in 10.000 samples representing the Danish soil microbiome (Microflora Danica)
Poster Pitch and Poster	15:18 - 15:20	Busiswa Ndaba	Microbiology and Environmental Biotechnology Research Group, Agricultural Research Council –Natural Resources and Engineering, Pretoria, South Africa	Effect of green synthesized iron nanoparticles on selected plant growth promoting bacteria: Are they good or bad?

	Time	Presenting Author	Affiliation	Title
Poster Pitch and Poster	15:20 - 15:22	Sirja Viitamäki	University of Helsinki, Finland	The activity and functions of soil microbial communities in the Finnish sub-Arctic vary across vegetation types
Poster Pitch and Poster	15:22 - 15:24	Numan Ibne Asad	Institut National de la Recherche Scientifique (INRS), Centre Armand-Frappier Santé Biotechnologie, QC, Laval, Canada	Microbial-based predictive modeling of wheat yield and grain quality
Poster Pitch and Poster	15:25 - 15:27	Sébastien Wielgoss	ETH Zurich, Switzerland	Selection hotspots and CRISPR spacer dynamics in cooperative kin groups of myxobacteria from soil
Poster Pitch and Poster	15:28 - 15:30	Rui Zhang	University of Ottawa, Canada	Exploring the functional diversity of microbial communities in rice paddies along a mercury contamination gradient
Oral Presentation	15:30 - 15:45	Bridget McGivern	Colorado State University, USA	Challenging the paradigm: microbial polyphenol degradation is active across permafrost peatland gradients
Oral Presentation	15:45 - 16:00	Zander Rainier Human	Institute of Microbiology of the Czech Academy of Sciences, Prague, Czech Republic	Impact of the metabolome on the composition and seasonality of the Picea abies forest soil microbiome

Thursday 18 August

MS17 & AS17 - Microbial ecology of the built environment

Auditorium B

10:00 - 12:00 & 14:00 - 16:00



	Time	Presenting Author	Affiliation	Title
Invited Talk	10:30 - 11:00	David Weissbrodt	TU Delft, the Netherlands	Microbial ecology principles for urban circular economies
Invited Talk	11:00 - 11:30	Stephan C. Schuster	SCElse, NTU, Singapore	Air microbiomes and respiratory disease – crossing over from environment to ‘exposome’ precision medicine
Oral Presentation	11:30 - 11:45	Oral Presentation Cancelled		
Oral Presentation	11:45 - 12:00	Hélène Niculita-Hirzel	Center for Primary Care and Public Health (Unisanté), University of Lausanne, Switzerland	Season, vegetation proximity and building construction period shape the indoor fungal communities’ composition at city-scale
Oral Presentation	12:00 - 12:15	Vicente Gomez-Alvarez	U.S. Environmental Protection Agency, Office of Research and Development, USA	Your building has a distinct microbiome: understanding microbial ecology to improve water management programs to minimize the growth of Legionella
Oral Presentation	12:15 - 12:30	Marco Gabrielli	Dipartimento di Ingegneria Civile e Ambientale – Sezione Ambientale, Politecnico di Milano, Milan, Italy, School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, Georgia, USA	Eukaryotic communities in drinking water distribution systems around the globe: composition and influencing factors
Lunch Break	12:30 - 14:00			
	Time	Presenting Author	Affiliation	Title
Invited Talk	14:00 - 14:30	Adey Feleke Desta	Addis Ababa University, Ethiopia	Microbial ecology integration to safeguard water resources for irrigation in peri-urban areas
Invited Talk - ISME/IWA Rising Star Award 2020	14:30 - 15:00	Fangqiong Ling	Washington University in St Louis, USA	Microbiomes as biosensors to aid wastewater-based health studies
Oral Presentation	15:00 - 15:15	Katherine E. Graham	Georgia Institute of Technology, USA	Metagenomic tools for reliable microbial source tracking (MST) in contaminated urbanized waters

	Time	Presenting Author	Affiliation	Title
Poster Pitch and Poster	15:15 - 15:17	Céline Margot	Department of Environmental Microbiology, Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland / Department of Environmental Systems Science, Institute of Biogeochemistry and Pollutant Dynamics, ETH Zürich, Switzerland	LegionARMI: a reactor for the large-scale production of Legionella pneumophila-containing biofilms
Poster Pitch and Poster	15:18 - 15:20	Rodrigo Maia Valença	Aalborg University, Denmark	Several process-critical bacteria in activated sludge wastewater treatment plants grow in the sewer biofilms
Poster Pitch and Poster	15:20 - 15:22	Aline Adler	Ecole Polytechnique Fédérale de Lausanne, Switzerland	Long-read sequencing and a novel binning approach revealed frequent genomic rearrangements in Candidatus Accumulibacter
Poster Pitch and Poster	15:22 - 15:24	Pranav Sampara	The University of British Columbia, Canada	Trait-informed genome-resolved process modeling resolves functional degeneracy in nitrifying communities in the activated sludge process
Poster Pitch and Poster	15:25 - 15:27	Nina Roothans	Delft University of Technology, Netherlands	Proteome-based wastewater microbiome metabolism dynamics underlying nitrous oxide emissions
Poster Pitch and Poster	15:28 - 15:30	Ashira Roopnarain	Agricultural Research Council of South Africa	An integrated augmentation approach to improve cold season biogas yield for smallholder farmers
Oral Presentation	15:30 - 15:45	Jane Fowler	Simon Fraser University, Canada	Mass effects under the microscope: A key archetype in biological treatment systems?
Oral Presentation	15:45 - 16:00	Sabine Kleinstüber	Helmholtz Centre for Environmental Research, Germany	High-speed worldwide adaptation of wastewater bacteria to xenobiotic micropollutants - the case of acesulfame

Thursday 18 August

MS18 & AS18 - Host-microbe associations across the animal Tree of Life and beyond

Auditorium C

10:00 - 12:00 & 14:00 - 16:00



	Time	Presenting Author	Affiliation	Title
Invited Talk	10:30 - 11:00	Hannah Carey	University of Wisconsin, USA	Symbiosis between hibernators and their gut microbes promotes nitrogen recycling and maintenance of protein pools during winter fasting
Invited Talk	11:00 - 11:30	Bettina Glasl	University of Vienna, Centre for Microbiology and Environmental Systems Science, Division of Microbial Ecology, Austria	Reduced to a minimum – unprecedented genome reduction of an ammonia-oxidizing archaeal sponge symbiont
Oral Presentation	11:30 - 11:45	Amélie Cabirol	University of Lausanne, Switzerland	Gut bacteria promote their host's learning performance
Oral Presentation	11:45 - 12:00	Junichi Miyazaki	X-star, JAMSTEC, Japan	Dual energy metabolism in endosymbionts of Alviniconcha vent snail
Oral Presentation	12:00 - 12:15	Tea Movsesijan	University of Veterinary Medicine Vienna, Austria	Mycotoxins modulate rumen fermentation by inhibiting lactate utilizers
Oral Presentation	12:15 - 12:30	Gabriela Persinoti	Brazilian Biorenewables National Laboratory (LNBR), Brazil	Unravelling unprecedented genomes and enzymatic systems for plant glycans breakdown from capybara gut microbiome
Lunch Break	12:30 - 14:00			
	Time	Presenting Author	Affiliation	Title
Invited Talk	14:00 - 14:30	Ryuichi Koga	AIST, Japan	Single mutation makes Escherichia coli an insect mutualist
Invited Talk	14:30 - 15:00	Jillian Petersen	University of Vienna, Austria	The natural context of symbiosis: Networks of interactions from bacteria to bivalves to birds
Oral Presentation	15:00 - 15:15	Aura Raulo	Department of Computing, University of Turku, Finland / Zoology Department, University of Oxford, United Kingdom	Social and environmental transmission spread distinct sets of gut microbes in wild mice
Poster Pitch and Poster	15:15 - 15:17	Ianina Altshuler	Norwegian University of Life Science - NMBU, Norway	Transkingdom metaproteomic network analysis across the host-microbiome nexus reveals associations to host fitness

	Time	Presenting Author	Affiliation	Title
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Poster Pitch and Poster	15:18 - 15:20	Linda Hink	Leibniz University Hannover, Germany	Hydrogen emission of isopods due to mixed acid fermentation by facultative aerobes in their guts is stimulated by polylactic acid ingestion
Poster Pitch and Poster	15:20 - 15:22	Katherine Kokkinias	Colorado State University, USA	Weathering the inflammatory storm: a multi-omics analysis of the murine microbiome in response to salmonella and diet-induced inflammation over time
Poster Pitch and Poster	15:22 - 15:24	Yi Lan	Hong Kong University of Science and Technology, Hong Kong, China	Dual symbiosis in the deep-sea hydrothermal vent snail revealed by its hologenome
Poster Pitch and Poster	15:25 - 15:27	Laura Rix	University of Queensland, Australia	Heat stress destabilises the host-cyanobacteria symbiosis in a photosynthetic coral reef sponge
Poster Pitch and Poster	15:28 - 15:30	Carl Yeoman	Montana State University, USA	North American wild ruminants are protected from toxic dietary alkaloids by rumen-located fungi
Oral Presentation	15:30 - 15:45	Andreas Schramm	Aarhus University, Denmark	Social transmission vs. environmental recruitment of the microbiomes of social spiders and their nests
Oral Presentation	15:45 - 16:00	Dylan Schultz	Iowa State University, USA	A multi-omic approach reveals mechanistic and genetic differences among <i>Cardinium hertigii</i> strains causing different reproductive manipulation phenotypes

Thursday 18 August

MS19 & AS19 - Molecular aspects of microbes-microbes - microbes-host interactions

Room 1ABC

10:00 - 12:00 & 14:00 - 16:00



	Time	Presenting Author	Affiliation	Title
Invited Talk	10:30 - 11:00	Tobias Viehboeck	Department of Functional and Evolutionary Ecology, Environmental Cell Biology group, University of Vienna, Austria	A mouthful of symbionts - cell biology of oral cavity Neisseriaceae
Invited Talk	11:00 - 11:30	Frédérique Le Roux	Station biologique de Roscoff, France	Genetic determinism of phage-bacteria coevolution in natural populations
Oral Presentation	11:30 - 11:45	Cristina Alcaraz	Division of Microbial Ecology, Centre for Microbiology and System Science, University of Vienna, Vienna	Proteins encoded by intracellular gill symbionts detected throughout the body of their animal host
Oral Presentation	11:45 - 12:00	Adrien Assie	Baylor College of Medicine, USA	Charting the flow and effects of amino acids in a microbiome system
Oral Presentation	12:00 - 12:15	GUOXIN CUI	King Abdullah University of Science and Technology, Saudi Arabia	A sea-anemone cell atlas illuminates the molecular mechanisms underlying Darwin's paradox
Oral Presentation	12:15 - 12:30	Susan Jennings	RWTH Aachen, Germany	OligoMM19.1: An enhanced synthetic community of mouse gut microbiota
Lunch Break	12:30 - 14:00			
	Time	Presenting Author	Affiliation	Title
Invited Talk	14:00 - 14:30	Paul Schulze Lefert	Max Planck Society, Germany	Assembly and host specificity in the bacterial root microbiota
Invited Talk - ISME/IWA Rising Star Award 2020	14:30 - 15:00	Luis Teixeira	Instituto Gulbenkian de Ciência, Portugal	Diversity of stable gut-colonizing bacteria in Drosophila melanogaster wild populations
Oral Presentation	15:00 - 15:15	Soon-Jae Lee	University of Lausanne, Switzerland, Swiss National Centre of Competence in Research (NCCR) Microbiomes, Switzerland	Synchronizing the rhythms of symbiosis: The circadian rhythm between arbuscular mycorrhizal fungi and plants
Poster Pitch and Poster	15:15 - 15:17	Tobyn Branck	Harvard University, USA, Broad Institute, USA	Quantifying the effects of diet and the microbiome

	Time	Presenting Author	Affiliation	Title
Poster Pitch and Poster	15:18 - 15:20	Oriane Moyne	University of California San Diego, USA	Deciphering metabolic states in real time to elucidate the role of the microbiome in alcoholic hepatitis
Poster Pitch and Poster	15:20 - 15:22	Leanid Laganenka	Institute of Microbiology, D-BIOL, ETH Zürich, Switzerland	Chemotaxis and autoinducer-2 signalling enhance gut colonization and drive niche segregation of Escherichia coli strains in the mammalian gut
Poster Pitch and Poster	15:22 - 15:24	Juliana Oliveira	Brazilian Center for Research in Energy and Materials (CNPq), Brazil	Deciphering the antagonistic effect of volatile organic compounds on sugarcane pathogens
Poster Pitch and Poster	15:25 - 15:27	Poster Pitch Cancelled		
Poster Pitch and Poster	15:28 - 15:30	Tobias Viehboeck	University of Vienna, Austria	Host-polarized arrangement of animal symbiont chromosomes
Oral Presentation	15:30 - 15:45	Alicia Isabel Pérez-Lorente	Instituto de Hortofruticultura Subtropical y Mediterránea "La Mayora", Universidad de Málaga-Consejo Superior de Investigaciones Científicas (IHSM-UMA-CSIC), Spain	Tse1 mobilized by T6SS of Pseudomonas induces sporulation of Bacillus via σ^W
Oral Presentation	15:45 - 16:00	Kalliope K. Papadopoulou	University of Thessaly, Greece	A beneficial fungal endophyte translocates RNAi signals to its host

Thursday 18 August

MS20 & AS20 - Controlling microbiome composition, one strain at a time

Room 2ABC

10:00 - 12:00 & 14:00 - 15:00



	Time	Presenting Author	Affiliation	Title
Invited Talk	10:30 - 11:00	Wolf-Dietrich Hardt	ETH Zurich, Switzerland	Introduction and elimination of Enterobacteriaceae in the mammalian gut
Oral Presentation	11:00 - 11:15	Justine Garcia	New Mexico Highlands University, USA	The role of interbacterial interactions in functional redundancy of host microbiomes
Oral Presentation	11:15 - 11:30	Omar Eduardo Tovar Herrera	Ben Gurion University, Israel	Exploring the functional patterns describing the core microbiome
Invited Talk	11:30 - 12:00	Camille Goemans	EMBL, Heidelberg, Germany	Unravelling the collateral damage of antibiotics on gut bacteria
Invited Talk	12:00 - 12:30	Didier Mazel	Institut Pasteur, France	Synthetic toxin-intein combinations as genetic weapons for specific killing of pathogenic bacteria in complex populations
Lunch Break	12:30 - 14:00			
Invited Talk	14:00 - 14:30	Lone Brøndsted	Department of Veterinary and animal Sciences, University of Copenhagen, Denmark	Different phage strategies for adjusting to diverse host receptors
Oral Presentation	14:30 - 14:45	Thomas SB Schmidt	European Molecular Biology Laboratory, Germany	Drivers and determinants of strain dynamics following faecal microbiota transplantation
Oral Presentation	14:45 - 15:00	Cynthia I. Rodriguez	University of California, Irvine, USA	The relationship between strain diversity and ecosystem functioning in gut-isolated bifidobacteria

Thursday 18 August

MS21 & AS21 - Deep subsurface microbial ecology

Room 3ABC

10:00 - 12:00 & 14:00 - 16:00



	Time	Presenting Author	Affiliation	Title
Invited Talk	10:30 - 11:00	Thomas Kieft	New Mexico Institute of Mining and Technology, USA	The Legacy of T.C. Onstott: Investigations into geomicrobiology of the Witwatersrand Basin and their applications to astrobiology
Invited Talk	11:00 - 11:30	Jens Kallmeyer	GFZ Potsdam, Germany	Some like it hot! Microbial life in deep, hot sediments
Oral Presentation	11:30 - 11:45	Emma Bell	University of Calgary, Canada	Distinct sulfur-cycling microbial communities are active in groundwater from deep crystalline bedrock fractures in the terrestrial subsurface
Oral Presentation	11:45 - 12:00	Kirsten Küsel	University of Jena, Germany	Peeking into the paleome of endolithic microbial communities
Oral Presentation	12:00 - 12:15	Melody Lindsay	Bigelow Laboratory for Ocean Sciences, USA	Single cell rates of microbial sulfate reduction in a deep subsurface terrestrial aquifer
Oral Presentation	12:15 - 12:30	Florian Schubert	GFZ - German Research Centre For Geosciences, Germany	Rapid metabolism fosters microbial survival in the deep, hot, seafloor biosphere
Lunch Break	12:30 - 14:00			
	Time	Presenting Author	Affiliation	Title
Invited Talk	14:00 - 14:30	Cara Magnabosco	ETH Zurich, Switzerland	Microbial responses to rapid changes in groundwater properties
Invited Talk - ISME/IWA Rising Star Award 2020	14:30 - 15:00	Yohey Suzuki	Graduate School of Science, The University of Tokyo, Japan	Hard Rock Microbiology: recent breakthroughs and future challenges
Oral Presentation	15:00 - 15:15	Hannah Doris Schweitzer	UiT - The Arctic University of Norway, Norway	Subsurface hydrocarbon degradation strategies in low- and high-sulfate coal seam communities identified with activity-based metagenomics
Poster Pitch and Poster	15:15 - 15:17	Armando Alibrandi	GFZ German Research Centre for Geoscience, Section Geomicrobiology, Germany	Insights in metagenomic diversity in pristine oil reservoirs
Poster Pitch and Poster	15:18 - 15:20	Kaela K Amundson	Colorado State University, USA	Predators of the Deep: virus-host dynamics in the terrestrial subsurface

	Time	Presenting Author	Affiliation	Title
Poster Pitch and Poster	15:20 - 15:22	Ömer K. Coskun	Ludwig Maximilians University, Germany	Bicarbonate concentrations drive primary production by microbial dark matter in a deep subsurface hydrothermal aquifer
Poster Pitch and Poster	15:22 - 15:24	Sarah P. Esser	Group for Aquatic Microbial Ecology (GAME), Environmental Microbiology and Biotechnology (EMB), Faculty of Chemistry, University of Duisburg Essen, Germany	An archaeon with and without its episymbiont: Differences in the expression profile
Poster Pitch and Poster	15:25 - 15:27	Beatrix M. Heinze	University of Jena, Germany	Ancient carbon from sedimentary rocks drives subsurface microbiomes
Poster Pitch and Poster	15:28 - 15:30	Toshiki Nagakura	GFZ German Research Centre for Geosciences, Germany	Biological sulfate reduction in deep seafloor sediment of Guaymas Basin
Oral Presentation	15:30 - 15:45	Luis E. Valentin-Alvarado	University of California Berkeley, USA	Autotrophic biofilms sustained by deeply-sourced sulfide-bearing groundwater host diverse CPR bacteria implicated in sulfur and hydrogen metabolism
Oral Presentation	15:45 - 16:00	Aurèle Vuillemin	GFZ German Research Centre for Geosciences, Helmholtz Centre Potsdam, Germany	Tracing the deep biosphere and its biosignatures in the 1 Ma ferruginous sequence of Lake Towuti, Indonesia

Thursday 18 August

MS22 & AS22 - Synthetic biology approaches for microbial ecology

Room 4ABC

10:00 - 12:00 & 14:00 - 15:00



	Time	Presenting Author	Affiliation	Title
Invited Talk	10:30 - 11:00	Randall Platt	ETH Zurich, Basel, Switzerland	Noninvasive assessment of gut function with transcriptional recording sentinel cells
Oral Presentation	11:00 - 11:15	Anjali Doshi	Columbia University, USA	Engineered bacterial swarm patterns as spatial records of the environment
Oral Presentation	11:15 - 11:30	Swetha Sridhar	Systems, Synthetic, and Physical Biology, Rice University, Houston, TX, USA	Diving into the marine microbiome: synthetic biology tools to quantify marine quorum sensing and gene transfer in situ
Invited Talk	11:30 - 12:00	Chris Barnes	UCL, United Kingdom	Design and control of microbial communities
Invited Talk	12:00 - 12:30	David Riglar	Imperial College London, United Kingdom	Seeing in dark places: using synthetic biology to spatially resolve host-microbiome interactions
Lunch Break	12:30 - 14:00			
Invited Talk	14:00 - 14:30	Invited Talk Cancelled		
Poster Pitch and Poster	14:30 - 14:32	Marina Dziuba	University of Bayreuth, Germany	Exploring the host range for genetic transfer of prokaryotic magnetic organelle biosynthesis
Poster Pitch and Poster	14:33 - 14:35	Prashant Bharadwaj Kalvapalle	Rice University, USA	Sensitive detection of conjugation in wastewater by tagging 16s rRNA using a Ribozyme
Poster Pitch and Poster	14:35 - 14:37	Tetsushi Mori	Tokyo University of Agriculture and Technology, Japan	Cell-penetrating peptides as biomolecules carriers and its application in bacteria
Poster Pitch and Poster	14:37 - 14:39	Kevin Simpson	Pontificia Universidad Católica, Chile	Gene spatial correlations in synthetic bacterial systems with Ising-like interactions
Poster Pitch and Poster	14:40 - 14:42	Guillermo Yañez	Newcastle University, United Kingdom	Emergence of travelling waves from a synthetic oscillatory gene network
Poster Pitch and Poster	14:43 - 14:45	Yaochun Yu	Swiss Federal Institute of Aquatic Science and Technology, Switzerland	Omics-based discovery of novel pollutant-degrading enzymes: from metagenomics data mining to enzyme functionality validation
Oral Presentation	14:45 - 15:00	Karin Yaniv	Ben-Gurion University, Israel	An inside look at a biofilm: Pseudomonas aeruginosa flagella biotracking

Thursday 18 August

MS23 & AS23 - Drivers of microbial invasion success

Room 5ABC

10:00 - 12:00 & 14:00 - 16:00



	Time	Presenting Author	Affiliation	Title
Invited Talk	10:30 - 11:00	Joana Falcao Salles	Microbial Community Ecology cluster, Groningen Institute for Evolutionary Life Sciences (GELIFES), Faculty of Science and Engineering, University of Groningen, the Netherlands	The ecology of bacterial invasions
Invited Talk	11:00 - 11:30	Ville-Petri Friman	University of York, UK	Phages and plant pathogen invasions in the rhizosphere
Oral Presentation	11:30 - 11:45	Sean Booth	University of Oxford, United Kingdom	Bacterial warfare: contact weapons for invasion, diffusible weapons for defence
Oral Presentation	11:45 - 12:00	Iolanda Domingues	Westra Group, Environmental and Sustainability Institute, University Exeter, United Kingdom	Advantage of CRISPR resistance against beneficial mobile genetic elements
Oral Presentation	12:00 - 12:15	Laura Kaminsky	Pennsylvania State University, USA	Applying experimental evolution to improve fitness of plant-beneficial bacteria in agricultural soils
Oral Presentation	12:15 - 12:30	Lucie Malard	University of Lausanne, Switzerland	Microbial colonisation: from airborne dispersal to integration within the soil community
Lunch Break	12:30 - 14:00			
	Time	Presenting Author	Affiliation	Title
Invited Talk	14:00 - 14:30	Elze Hesse	University of Exeter, United Kingdom	Ecological and evolutionary selection act in parallel during invasion
Invited Talk - ISME/IWA Rising Star Award 2020	14:30 - 15:00	Alexandre Jousset & Zhong Wei	Nanjing Agricultural University, China	Ecological interactions predict microbiome invasion by a plant pathogen
Oral Presentation	15:00 - 15:15	Josep Ramoneda	Fierer lab, Department of Ecology and Evolutionary Biology, University of Colorado Boulder, USA	Microbial community coalescence promotes novel symbiotic associations and improves nutrition in a legume crop
Poster Pitch and Poster	15:15 - 15:17	Poster Pitch Cancelled		

	Time	Presenting Author	Affiliation	Title
Poster Pitch and Poster	15:18 - 15:20	Annelies Geirnaert	ETH Zurich, Switzerland	Lactiplantibacillus plantarum invasion of gut microbiota reveals spatial organization within the community and valerate as carrying capacity modulator
Poster Pitch and Poster	15:20 - 15:22	Jyotsna Kalathera	Indian Institute of Science, Bangalore, India	Stringent population bottleneck selects some but not all social traits in social bacterium Myxococcus xanthus
Poster Pitch and Poster	15:22 - 15:24	Xipeng Liu	University of Groningen, The Netherlands	The mechanism of community-driven invasions in soil: A zero-sum game of bacterial competition for resources
Poster Pitch and Poster	15:25 - 15:27	Eric Moore	Los Alamos Natl. Lab, USA	Identifying and exploiting ecological drivers of successful microbial inoculation to improve plant performance with microbiome engineering
Poster Pitch and Poster	15:28 - 15:30	Katherine Xue	Stanford University, USA	Colonization and transmission after antibiotic perturbation in the human gut microbiome
Oral Presentation	15:30 - 15:45	Jay Sangha	Newcastle University, United Kingdom	Modelling Streptococcus mutans invasion of an in vitro synthetic community of oral bacteria
Oral Presentation	15:45 - 16:00	Sarah E. Woodward	University of British Columbia, Canada	Early bottlenecks during enteric infection severely restrict the founding bacterial population