



LATINOAMERICAN ISME Program | ISME-LAT 2021

Building microbial networks

Day 1 - July 27

Schedule GTM-5	Room A: Microbiomes associated with animal hosts	Room B: Environmental effects on microbial communities	Room C: Phages and viruses
10:00 – 10:30	Opening remarks		
10:30 – 11:30	Keynote lecture 1: Redirecting the scientific system to combat the SARS-CoV-2 pandemic Gonzalo Moratorio Ph.D. Instituto Pasteur de Montevideo Uruguay		
11:30 – 12:00	A1: Insects are empowered by microbes Javier A. Ceja-Navarro Ph.D. Lawrence Berkeley National Laboratory U.S.A.	B1: Taxonomic, functional and environmental interactions in hot springs microbial mats Beatriz Díez Ph.D. Universidad Católica de Chile Chile	C1: Human gut phages and their role as modifiers of microbial communities Alejandro Reyes Ph.D. Universidad de Los Andes Colombia
12:00 – 12:30	A2: The gut microbiota of honey bees Karina Antúnez Ph.D. Instituto de Investigaciones Biológicas Clemente Estable Uruguay	B2: Composition, diversity and functional analysis of long-term hydrocarbons-contaminated soil microbiome Irma Morelli Ph.D. Universidad Nacional de La Plata Argentina	C2: Bacteriophage-mediated manipulation of the gut microbiome Josué Castro Ph.D. University of Copenhagen Denmark
12:30 – 12:50	Break		
12:50 – 13:10	A3: Unveiling the neglected fraction of the ruminal microbiome at the intersection of culturing and molecular approaches Alejandro Caro-Quintero Ph.D. Universidad Nacional de Colombia Colombia	B3: Composition and health impact of city public transport microbiomes María Mercedes Zambrano Ph.D. Corporación Corpogen Colombia	C3: Bacteriophages as a precision tool for controlling undesired microbiota partners Martha Vives Ph.D. Universidad de Los Andes Colombia
13:10 – 13:30	A4: Prokaryotic, fungal, and unicellular eukaryotic core communities across three sympatric marine sponges from the southwestern atlantic coast are dominated largely by deterministic assemblage processes Cristiane Hardoim Ph.D. State University of São Paulo Brazil	B4: Pollution and bioremediation drives the microbial communities in soils and water Michael Seeger Ph.D. Universidad Tecnica Federico Santa Maria Chile	C4: Metagenomic CRISPR reconstruction disentangle bacteria-phage dynamics Leandro Guerrero Ph.D. Instituto de Investigaciones en Ingeniería Genética y Biología Molecular Argentina
13:30 – 14:30	Keynote lecture 1: Linking the gut microbiome and metabolome to understand dietary response Rob Knight Ph.D. Universidad de California - San Diego USA		
14:30 - 16:30	Poster session		



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Day 2 – July 28

Schedule GTM-5	Sala D: Microbial biotechnology	Sala E: Methods applied in microbial ecology and computational tools	Sala F: Extremophiles
10:00 – 11:00	Keynote lecture 2: Codiversification of gut microbiota with humans Ruth Ley Ph.D. Instituto Max Planck Germany		
11:00 – 11:30	D1: Biotechnological potential of insect gut microbiome Paola Talia Ph.D. Instituto de Tecnología Agropecuaria Argentina	E1: Quantitative prediction of complex functions in constructed ecosystems using machine learning Ulisses Nunes da Rocha Ph.D. The Helmholtz-Centre for Environmental Research Germany	F1: Microbial diversity in deep-sea habitats of the Southwestern Atlantic Vivian Helena Pellizari Ph.D. University of Sao Paulo Brazil
11:30 – 12:00	D2: The microbes in our food and their potential to become health solutions Gerardo Toledo Ph.D. Solarea Bio Inc. U.S.A.	E2: Indexing the genomic diversity of Archaea and Bacteria with MiGA, the Microbial Genomes Atlas Luis Miguel Rodríguez Ph.D. University of Innsbruck Austria	F2: To confirm María Sofía Urbieto Ph.D. Universidad Nacional de la Plata Argentina
12:00 – 12:20	Break		
12:20 – 12:40	D3: Effect of inhibitors over the anaerobic digestion process based on the metabolic reconstruction of the process María Francisca Villegas Ph.D. Universidad ICESI Colombia	E3: PIME: capturing biological differences using prevalence. Victor Pyrlo Ph.D. Federal University of Lavras Brazil	F3: Recovering microbial genomes in Antarctic and subsurface ecosystems through metagenomics Amanda G. Bendía Ph.D. Universidad de São Paulo Brazil
12:40 – 13:00	D4: Genomic analysis of biodegradation pathways for furans and their relevance for bioconversion of lignocellulosic biomass Danilo Perez-Pantoja Ph.D. Universidad Tecnológica Metropolitana Chile	E4: Genomes comparative analysis in PGPR: Identifying genetic traits involved in plant-bacteria interaction under abiotic stress conditions Claudio Córtes Vásquez Ing. Biotec. Centro de estudios Avanzados en Zonas Áridas (CEAZA) Chile	F4: Tracking arsenic metabolism in the Salar de Huasco - Altiplanic environment, via genome-resolved metagenomics Juan Castro-Severyn Ph.D. Universidad Católica del Norte Chile
13:00 – 14:00	Keynote lecture 2: The human microbiome in a disruptive era María Domínguez Ph.D. Universidad Rutgers USA		
14:00 - 16:00	Poster session		



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Day 3 – July 29

Schedule GTM-5	Room G: Synthetic microbial ecology	Room H: Microbial ecology of mixed communities	Room I: Plant-associated microbiomes
10:00 – 11:00	Keynote lecture 3: Structuring the soil microbiome by the cultivation of cover crops Fernando Dini Andreote Ph.D. Universidade de São Paulo Brazil		
11:00 – 11:30	G1: Rules of microbial community assembly in simple environments Sylvie Estrela Ph.D. Yale University U.S.A.	H1: Verrucomicrobiota degrade sulfated methyl pentoses during diatom blooms Luis H. Orellana (Coto) Ph.D. Max Planck Institute Germany	I1: Seed transmitted <i>Proteobacteria</i> form the core microbiome of juvenile angiosperm plants David Johnston-Monje Ph.D. Universidad del Valle Colombia
11:30 – 12:00	G2: Providing complex biological outputs by engineering division of labor in bacteria Juan Nogales Ph.D. Centro Nacional de Biotecnología Spain	H2: Bacterivory by mixotrophic phytoflagellates Fernando Unrein Ph.D. Instituto de Investigaciones Biotecnológicas de Chascomús Argentina	I2: The effect of domestication on the tomato rhizosphere microbiome Alexandra Stoll Ph.D. Centro de estudios Avanzados en Zonas Áridas (CEAZA) Chile
12:00 – 12:20	Break		
12:20 – 12:40	G3: A top-down enrichment strategy to guide the design of synthetic microbial consortia Diego Jiménez Ph.D. Universidad de Los Andes Colombia	H3: A proposed framework for the consolidation of a South America mycorrhizal database. Jessica Duchicela Ph.D. Universidad de las Fuerzas Armadas - ESPE Ecuador	I3: Harnessing the microbiome to control plant parasitic weeds Francisco Dini Andreote Ph.D. Pennsylvania State University U.S.A.
12:40 – 13:00	G4: Synthetic community invasion depends on secondary metabolite production in <i>Bacillus subtilis</i> Carlos N. Lozano-Andrade cPhD Technical University of Denmark Denmark	H4: Genome of a new <i>Candidatus anammox</i> bacteria assembled from the metagenome of two anammox reactors Pía Oyarzúa cPhD Universitat Autònoma de Barcelona Spain	I4: Simulated climate change in a semiarid shrubland decreased the phylogenetic diversity of arbuscular mycorrhizal fungal communities María del Mar Alguacil Ph.D. Estación Experimental el Zaidín Spain
13:00 – 14:00	Best-poster session		



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Day 4 – July 30

Schedule GTM-5	Room J: Soil microbial ecology	Room K: Microbial ecology of aquatic environments	Room L: Human microbiome and health
10:00 – 11:00	<p>Keynote lecture 4: The Art of Harnessing Dark Energy: Symbioses between Chemosynthetic Bacteria and Marine Invertebrates Nicole Dubilier Ph.D. President of the International Society for Microbial Ecology - ISME Max Planck Institute Germany</p>		
11:00 – 11:30	<p>J1: The rhizosphere microbiome as a tool for a sustainable agriculture Lucas William Mendes Ph.D. Universidade de São Paulo Brazil</p>	<p>K1: Mangrove Microbiome Initiative (MMI) Alexandre Soares Rosado Ph.D. King Abdullah University of Science and Technology Saudi Arabia</p>	<p>L1: A simpler niche? A microbial ecologist's guide to cervicovaginal microbiota in health and disease Fillipa Godoy-Vitorino Ph.D. Universidad de Puerto Rico Puerto Rico</p>
11:30 – 12:00	<p>J2: The ecology of bacterial invasions Joana Falcao Salles Ph.D. University of Groningen Brazil</p>	<p>K2: Differences in the microbial community structure in sediments from the Yucatan underground aquifer appear to be determined by physical and chemical characteristics posed by coastal and inland environments Alejandra Prieto Davó Ph.D. Universidad Nacional Autónoma de México Mexico</p>	<p>L2: A systems genetics approach to dissect interactions between gut microbes, metabolites and the host Federico Rey Ph.D. University of Wisconsin-Madison U.S.A.</p>
12:00 – 13:00	Long Break		
13:00 – 13:20	<p>J3: Using soil probiotics to improve the efficiency of phosphorus fertilizers in the tropic German Estrada Ph.D. AGROSAVIA Colombia</p>	<p>K3: Microbiome manipulation elicits metabolic and genetic restructuring and improves coral biology Raquel Silva Peixoto Ph.D. King Abdullah University of Science and Technology Saudi Arabia</p>	<p>L3: The Latinbiota Consortium: understanding composition and variation of human gut microbiota in Latin American populations Gregorio Iraola Ph.D. Instituto Pasteur de Montevideo Uruguay</p>
13:20 – 13:40	<p>J4: Spatial and temporal biogeographic distribution of soil bacterial community in cranberry soils Thiago Gumiere Ph.D. Laval University Canada</p>	<p>K4: Disentangling the bacterial metabolic-interactions on Brazilian soda lakes Simone Cota Ph.D. CENA/USP Brazil</p>	<p>L4: Gut bugs matter to viroimmunotherapy: bacterial changes associated to the efficacy of Delta-24-RGDOX against glioblastoma Natalie M. Meléndez-Vázquez cPhD University of Puerto Rico USA</p>
13:40 – 14:30	Discussion round: Science and Society in Latin America		
14:30 – 15:30	<p>Closure: Microbial ecology in a changing world: public policy, interdisciplinarity and outreach Cristina Dorador Ph.D. Universidad de Antofagasta Chile</p>		

