

# MICROBIOLOGY & IMMUNOLOGY

SEPTEMBER 11<sup>th</sup> ~ 12<sup>th</sup> 2019



Date	Time	Track	Presentation Title	Speaker
11-Sep	06:00 - 07:00 AM	New Methods and Emerging Trends	Find out how GARDP is redoubling its efforts to accelerate the development and delivery of new and improved antibiotics	Manica Balasegaram BMed Sci, BMBS, DTM&H, MSc, FRCP, Executive Director, GARDP
11-Sep	06:00 - 07:00 AM	Earth and Human Management of Our Microbial Wealth	Powerful Species-Level Identification and Quantification by Weighted Analysis of All, Rather Than One, 16S Hypervariable Regions	Seth Crosby, MD Director Scientific Collaboration, Department of Genetics, Washington University School of Medicine
11-Sep	07:30 - 08:30 AM	Earth and Human Management of Our Microbial Wealth	Keynote Presentation: Mining Athlete Microbiomes for Next Generation Probiotics	Jonathan Scheiman, PhD Co-Founder & Chief Executive Officer, FitBiomics
11-Sep	09:00 - 10:00 AM	Emergency Diagnostics	Microbial Detection Total Solution Based on MGISEQ High-Throughput Sequencing Platform - Accelerating the Application of Metagenomics in the Screening and Prevention of Infectious Disease	Kin Kuok, PhD Field Application Scientist, MGI Americas
11-Sep	09:00 - 10:00 AM	Earth and Human Management of Our Microbial Wealth	Using metagenomics and bioinformatics to investigate bacterial-fungal interactions	Patrick Chain, PhD Scientist V, Bioinformatics and Applied Genomics, Bioscience Division, Los Alamos National Laboratory
11-Sep	10:30 - 11:30 AM	Earth and Human Management of Our Microbial Wealth	Genomic characterization of emerging carbapenem-resistant Klebsiella pneumoniae infections at a public hospital in Lima, Peru	Pablo Tsukayama, Ph.D Hospital Nacional Cayetano Heredia, and Facultad de Ciencias, Universidad Peruana Cayetano Heredia, Lima, Peru

Sep 11 - Sep 4	Sep 11 10:30 - Sep 4 11:30 AM	New Insights into Virology	Structural analysis to understand the molecular mechanism for CPV species-jump	Susan Hafenstein, PhD Associate Professor, Department of Biochemistry & Molecular Biology, Director of Cryo-EM Imaging Facility, Pennsylvania State University
11-Sep	12:00 - 01:00 PM	New Insights into Virology	Understanding Astrovirus Pathogenesis: Who Knew Viruses Had Toxins?	Stacey Schultz-Cherry, PhD Full Member (Professor) Department of Infectious Diseases, St Jude Children's Research Hospital
11-Sep	01:30 - 02:30 PM	Earth and Human Management of Our Microbial Wealth	Development of Machine Learning Algorithms to Data Mine Meta-Omic Characterizations of Complex Microbiota	Garth D. Ehrlich, PhD, FAAAS Professor of Microbiology & Immunology, Professor of Otolaryngology-Head and Neck Surgery, Drexel University College of Medicine
12-Sep	06:00 - 07:00 AM	Earth and Human Management of Our Microbial Wealth	Using the NASA GeneLab Data System to Study the Metagenomes of Spaceships and Their Occupants	Jonathan M. Galazka, PhD GeneLab Project Scientist, NASA Ames Research Center Daniela Bezdán, PhD Research Director, Mason Laboratory of Integrative Genomics, Weill Cornell Medicine, Co-Chair NASA geneLab Microbiome, Executive Director MetaSUB Peng Jiang, PhD Research Assistant Professor, Center for Sleep and Circadian Biology, Department of Neurobiology, Northwestern University
12-Sep	07:30 - 08:30 AM	Earth and Human Management of Our Microbial Wealth	Keynote Presentation: Microbial Centric Aging: A Paradigm Shift	John Thomas, PhD Professor Emeritus, WVU School of Medicine Certified, "High Complexity Clinical Laboratory Director" (HCLD) (ABB)
12-Sep	09:00 - 10:00 AM	Earth and Human Management of Our Microbial Wealth	Investigating the common bean microbiome	Nejc Stopnisek, PhD Postdoctoral Scholar, Michigan State University
12-Sep	09:00 - 10:00 AM	Emergency Diagnostics	Meningitis & Encephalitis: Overview, Epidemiology, and Diagnostics	Kevin Alby, PhD, D(ABMM) Assistant Professor, Pathology and Laboratory Medicine Director, Associate Director, Clinical Microbiology Laboratory, UNC School of Medicine
12-Sep	10:30 - 11:30 AM	Earth and Human Management of Our Microbial Wealth	Analysis of human gut microbiomes and antibiotic resistomes of pediatric patients undergoing stem cell transplantation	Jonathan Jacobs, PhD Director of Global Product Management, Genome Analysis, QIAGEN

12-Sep	12:00 - 01:00 PM	Earth and Human Management of Our Microbial Wealth	Multi-Omic Approaches for the Study of Vaginal Microbial Communities	Jennifer Fettweis, PhD Assistant Professor & Director, Dept. of Microbiology & Immunology, Dept. of Obstetrics & Gynecology, Research Alliance for Microbiome Science Registry, Virginia Commonwealth University
12-Sep	01:30 - 02:30 PM	New Insights into Virology	Gender Parity in Virology Conference Speaker Selections	Ann Palmenberg, PhD Roland Rueckert Professor, Biochemistry and Molecular Virology, UW-Madison