

MICROBIOLOGY & IMMUNOLOGY

SEPTEMBER 11th ~ 12th 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 |

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| 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 |

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| 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 |