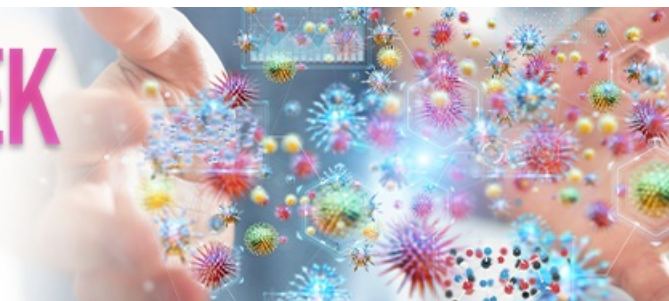


# MICROBIOLOGY WEEK

## VIRTUAL EVENT SERIES

SEPTEMBER 6-8, 2022



| Date  | Time                      | Track                                            | Presentation Title                                                                                            | Speaker                                                                                                                                                                     |
|-------|---------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6-Sep | 07:30<br>-<br>08:30<br>AM | Big Data in Infectious Disease and Host Response | Keynote Presentation: AI and Multi-Omics in Perinatal Period                                                  | Josef Neu, M.D.<br>Professor, Department of Pediatrics, Division of Neonatology, University of Florida                                                                      |
| 6-Sep | 09:00<br>-<br>09:00<br>AM |                                                  | Accelerating Vaccine Development with Automated HTS Library Prep                                              | Graham Freimanis, PhD<br>Postdoctoral Research Scientist                                                                                                                    |
| 6-Sep | 10:30<br>-<br>11:30<br>AM |                                                  | Panel Presentation: Validating a Fluorescence Cell Sorter for Infectious Disease and Immunology Applications  | Matt Riddle<br>Flow Cytometry Specialist at Miltenyi Biotec<br>Marissa Fahlberg<br>Assistant Director of the Flow Cytometry Core at Tulane National Primate Research Center |
| 6-Sep | 12:00<br>-<br>01:00<br>PM | Immunology                                       | Dissecting Host/Pathogen Interactions in the Gastrointestinal Epithelium                                      | Megan L. Stanifer, PhD<br>Assistant Professor, Department of Molecular Genetics and Microbiology, University of Florida, College of Medicine                                |
| 6-Sep | 01:30<br>-<br>02:10<br>PM | Immunology                                       | Escaping The Lung - What Can Circulating Mycobacterium Tuberculosis Dna Tell Us About Tb Infection in Humans? | Pranabashis Haldar, PhD<br>Associate Clinical Professor of Respiratory Medicine and Lead Physician for Clinical TB Services, Leicester Glenfield Hospital                   |
| 6-Sep | 03:00<br>-<br>04:00<br>PM | Immunology                                       | cGas-Like Enzymes in Bacterial Immunity                                                                       | Aaron Whiteley, PhD<br>Assistant Professor, Department of Biochemistry, University of Colorado Boulder                                                                      |
| 6-Sep | 06:00<br>-<br>06:00<br>AM | Respiratory Viruses                              | Mechanisms of Immune Evasion by RSV Nonstructural Proteins                                                    | Daisy Leung, PhD<br>Associate Professor, Department of Medicine, Division of Infectious Diseases Washington University School of Medicine                                   |

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| 6-Sep | 06:00<br>-<br>06:00<br>AM | Respiratory<br>Viruses   | Pleural Macrophages Promote Recovery From<br>Influenza Virus Infection                                                                                                  | Juliet Morrison, PhD<br>Assistant Professor, Department of Microbiology and Plant<br>Pathology University of California, Riverside                                                                                                              |
| 6-Sep | 06:00<br>-<br>06:00<br>AM | Infectious<br>Disease    | Resistance To Darunavir and Fifth Generation HIV<br>Protease Inhibitors                                                                                                 | Ronald Swanstrom, PhD<br>Postelle Distinguished Professor of Biochemistry and Co-Director<br>of the UNC CFAR University of North Carolina Chapel Hill                                                                                           |
| 6-Sep | 06:00<br>-<br>07:00<br>AM | Infectious<br>Disease    | Sensitizing Antibiotic-Tolerant Bacteria to<br>Topoisomerase Inhibitors to Reduce Infection<br>Relapse and Resistance Development                                       | Wendy W.K. Mok, PhD<br>Assistant Professor, Department of Molecular Biology and<br>Biophysics UConn Health                                                                                                                                      |
| 7-Sep | 07:30<br>-<br>08:30<br>AM | Respiratory<br>Viruses   | Keynote Presentation: The Importance of Timing:<br>Managing COVID-19 with Live Q&A                                                                                      | Daniel Griffin, MD, PhD<br>Chief, Division of Infectious Disease - at OPTUM TriState, Clinical<br>Instructor of Medicine - Columbia University College of Physicians<br>and Surgeons, Department of Medicine-Division of Infectious<br>Diseases |
| 7-Sep | 09:00<br>-<br>10:00<br>AM | Infectious<br>Disease    | Panel Presentation: Antimicrobial Resistance (AMR)<br>Summit: Identifying Antimicrobial Resistance from<br>Sample to Insight                                            | Dominic O'Neil, MS, MBA<br>Director of Microbiome Product Development, QIAGEN<br>Dylan Barbera<br>Global Product Manager, UNGS Genotyping<br>Daniel Hand, PhD<br>Senior Field Application Scientist EMEA, QIAGEN Digital Insights               |
| 7-Sep | 10:30<br>-<br>11:30<br>AM | Microbial<br>Communities | Keynote Presentation: Functional Consequences of<br>the Human Enteric Virome in IBD                                                                                     | Kate L. Jeffrey, PhD<br>Executive Director Moderna Therapeutics                                                                                                                                                                                 |
| 7-Sep | 12:00<br>-<br>01:00<br>PM | Respiratory<br>Viruses   | A Universal "Day Zero" Infectious Disease Testing<br>Strategy Exploiting CRISPR-based Sample Depletion<br>and Metagenomic Sequencing with Live Q&A                      | Jon Armstrong, MSc<br>Vice President of Research and Development, Jumpcode Genomics                                                                                                                                                             |
| 7-Sep | 01:30<br>-<br>02:30<br>PM | Microbial<br>Communities | Validation and Standardization Of DNA Extraction<br>and Library Construction Methods for<br>Metagenomics-Based Human Fecal Microbiome<br>Measurements                   | Dieter M. Turlousse, PhD<br>Senior Scientist, National Institute of Advanced Industrial Science<br>and Technology (AIST), Tsukuba, Japan                                                                                                        |
| 7-Sep | 03:00<br>-<br>04:00<br>PM |                          | High-Sensitivity, Targeted NGS Variant Detection of<br>Viral and Bacterial Pathogens: A Novel Solution for<br>Healthcare and Environmental Surveillance and<br>Research | Dylan Barbera<br>Global Product Manager, UNGS Genotyping                                                                                                                                                                                        |

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| 7-Sep | 06:00<br>-<br>06:00<br>AM | Microbial<br>Communities | Bacterial Response and Adaptation to Host-Targeting Chemotherapies Alters Drug Metabolism                                            | Amir Mitchell, PhD<br>Associate Professor, Department of Systems Biology, Department of Molecular, Cell, and Cancer Biology, Program in Molecular Medicine. University of Massachusetts Chan Medical School |
| 7-Sep | 06:00<br>-<br>06:00<br>AM | Microbial<br>Communities | Polymicrobial Biofilms: The Importance of Building Better Biofilm Models for Research Translation                                    | Shaun N. Robertson, PhD<br>CEO- MiDx, Research Fellow & ICURC ECR, National Biofilms Innovation Centre, Biodiscovery Institute, University of Nottingham                                                    |
| 7-Sep | 06:00<br>-<br>06:00<br>AM | Microbial<br>Communities | The Vaginal Microbiome and Susceptibility to Urogenital Infections                                                                   | Susan Tuddenham, MD MPH<br>Assistant Professor, Infectious Diseases, Johns Hopkins Department of Medicine                                                                                                   |
| 7-Sep | 06:00<br>-<br>06:00<br>AM | Microbial<br>Communities | The Vaginal Microbiome and Women's Health                                                                                            | Priyanka Jain<br>Co-Founder and CEO, Evvy                                                                                                                                                                   |
| 7-Sep | 06:00<br>-<br>06:00<br>AM | Microbial<br>Communities | Vaginal Microbiome and Immunity                                                                                                      | Smita Gopinath, PhD<br>Assistant Professor, Department of Immunology and Infectious Diseases, Harvard School of Public Health                                                                               |
| 7-Sep | 06:00<br>-<br>06:00<br>AM | Respiratory<br>Viruses   | Viral Genomics of SARS-CoV-2 and its Variants                                                                                        | Dirk Dittmer, Ph.D., MS<br>Professor, UNC Department of Microbiology and Immunology<br>Director, University of North Carolina at Chapel Hill, Viral Genomics (Vironomics) Core                              |
| 8-Sep | 06:00<br>-<br>07:00<br>AM |                          | Improved RNA-Seq Data Quality from Low-Input and FFPE Samples Using Enzyme-Free Ribosomal RNA Removal Kits                           | Samuel Rulli, PhD<br>Senior Global Product Manager, RNA Profiling , QIAGEN                                                                                                                                  |
| 8-Sep | 07:30<br>-<br>08:30<br>AM | Infectious<br>Disease    | Fast and Reliable Gene Synthesis for Optimized Protein Expression                                                                    | Claudia Chiocchini<br>Manager, Research and Development                                                                                                                                                     |
| 8-Sep | 09:00<br>-<br>10:00<br>AM | Infectious<br>Disease    | Keynote Presentation: Strategies for Epidemics Containment in the Context of the Anthropocene's Planet Degradation with Live Q&A     | Francisco Veas, PhD<br>Research Director and Professor, Montpellier University                                                                                                                              |
| 8-Sep | 10:30<br>-<br>11:30<br>AM | Infectious<br>Disease    | Keynote Presentation: Lipoprotein Receptors are Evolutionarily Conserved Cellular Receptors for Divergent Alphaviruses with Live Q&A | Jonathan Abraham, M.D., Ph.D.<br>Assistant Professor of Microbiology at Harvard Medical School, Associate Physician in Infectious Diseases, Brigham & Women's Hospital                                      |

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| 8-Sep | 12:00<br>-<br>01:00<br>PM | Infectious<br>Disease                                     | Panel Presentation: RT-LAMP: Best Practices and Tips to Accelerate Detection of Viral Pathogens, Including SARS-CoV-2 | Ingrida Vendelè, PhD<br>R&D Manager for Molecular and Synthetic Biology, Thermo Fisher Scientific<br>Leann Buhrow, PhD<br>R&D Scientist, Molecular Biology, Thermo Fisher Scientific                            |
| 8-Sep | 01:30<br>-<br>02:30<br>PM |                                                           | Panel Presentation: Optimization of Wastewater SARS-CoV-2 Samples to Enable NGS-based Detection of Emerging Variants  | Dominic O'Neil, MS, MBA<br>Director of Microbiome Product Development, QIAGEN<br>Jonathan Shaffer, PhD, MBA<br>Director, R&D, NGS Assay Technologies, QIAGEN                                                    |
| 8-Sep | 03:00<br>-<br>04:00<br>PM | Infectious<br>Disease                                     | Congenital Cytomegalovirus: The Case for Newborn Screening                                                            | Megan Pesch, MD, MS<br>Developmental and Behavioral Pediatrics University of Michigan Medical School and the National CMV Foundation                                                                            |
| 8-Sep | 06:00<br>-<br>06:00<br>AM | Infectious<br>Disease                                     | Covid Testing Challenges And Opportunities; A Picture is Worth a Thousand Words                                       | Irene Bosch, PhD<br>CEO and Founder IDx20 Inc.                                                                                                                                                                  |
| 8-Sep | 06:00<br>-<br>06:00<br>AM | Big Data in ID<br>and Host<br>Response                    | Getting Ready for The Next Pandemic: Communication of Data in Crisis Mode                                             | Imre Varju, MD, PhD, MPH<br>Research Fellow, Semmelweis University, Academic Trainee, Columbia University Mailman School of Public Health                                                                       |
| 8-Sep | 06:00<br>-<br>06:00<br>AM | Big Data in<br>Infectious<br>Disease and<br>Host Response | Inferring Selection Effects in SARS-CoV-2 with Bayesian Viral Allele Selection                                        | Martin Jankowiak, PhD<br>Machine Learning Fellow, Broad Institute of MIT and Harvard                                                                                                                            |
| 8-Sep | 06:00<br>-<br>06:00<br>AM | Infectious<br>Disease                                     | Towards Using Host Targeted Interventions Against Infectious Diseases                                                 | Alexis Kaushansky, PhD<br>Associate Professor of Pediatrics, University of Washington, Adjunct Associate Professor of Global Health, Center for Global Infectious Disease Research, Seattle Children's Hospital |
| 8-Sep | 06:00<br>-<br>06:00<br>AM | Infectious<br>Disease                                     | Transposon Mediated Forward Genetic Screens Identify Cell Intrinsic Resistance to Emerging Viral Pathogens            | Anna Bruchez, PhD<br>Assistant Professor, Department of Pathology, Case Western Reserve University School of Medicine                                                                                           |
| 8-Sep | 06:00<br>-<br>06:00<br>AM | Infectious<br>Disease                                     | Viruses Behaving Badly: How Viruses Subvert Cellular Metabolism to Replicate                                          | Bryan Mounce, PhD<br>Assistant Professor, Department of Microbiology and Immunology, Loyola University Chicago Stritch School of Medicine                                                                       |