## The Virome in Disease

### TUESDAY, MARCH 3

**The Virome in Disease**

- **Amit Kapoor**, Ohio State University, USA
- **Frederic D. Bushman**, University of Pennsylvania, USA  
  *The Human Virome in Health and Disease*

**Charles Chiu**, University of California, San Francisco, USA  
*Diagnosing Infections by Metagenomics and Uncovering Novel Disease Associations by Interrogation of the Eukaryotic Virome*

**Alejandro Reyes**, Los Andes University, Colombia  
*The Human Gut Virome in Health and Malnutrition*

**Eric L. Delwart**, University of California, San Francisco, USA  
*Koch’s Postulates in the Age of Viral Metagenomics*

### Workshop 1: Origins of the Human Virome

**Robert Edwards**, San Diego State University, USA  
*Phage Behaving Badly and Clinical Workarounds*

**David Wang**, Washington University School of Medicine, USA  
*Host-Virus Arms Race*

**Amit Kapoor**, University of Utah, USA  
*Animal Viromes Yield New Models for Human Viruses*

**Adrienne M.S. Correa**, Rice University, USA  
*Viral Reefscapes: Microbial Interactions with Threatened Coral Hosts and Reef Ecosystems*

**Robert Edwards**, San Diego State University, USA  
*Novel Lessons from the C. elegans Virome*

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**Lori R. Holtz**, Washington University, USA  
*Short Talk: Growth Velocity in Children with Environmental Enteric Dysfunction is Associated with Specific Bacterial and Viral Taxa of the Gastrointestinal Tract in Malawian Children*

**Efrem S. Lim**, Arizona State University, USA  
*Short Talk: Intestinal and Neuronal Inflammation Associated with Virome Alterations in Experimental Gulf War Illness is Reversed by Ribavirin*

### Workshop 2: Computational Viromics

**Robert Edwards**, San Diego State University, USA  
*Phage Behaving Badly and Clinical Workarounds*

**Amit Kapoor**, University of California, San Francisco, USA  
*Intestinal and Neuronal Inflammation Associated with Viral Reefscapes: Microbial Interactions with Threatened Coral Hosts and Reef Ecosystems*

**Adrienne M.S. Correa**, Rice University, USA  
*Viral Reefscapes: Microbial Interactions with Threatened Coral Hosts and Reef Ecosystems*

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**Mya Breitbart**, University of South Florida, USA  
*The Importance of Bacteriophage Taxonomy in the Analysis of Gut Virome Data*

**J Rodney Brister**, NLM, National Institutes of Health, USA  
*How to Find a Virus – a Public Database Story*

**Moreno Zolfo**, University of Trento, Italy  
*Detection and meta-analysis of non-viral contamination in viromes with ViromeQC*

**Michael J. Tisza**, NCI, National Institutes of Health, USA  
*The Importance of Bacteriophage Taxonomy in the Analysis of Gut Virome Data*

**Evelien M. Adriaenssens**, Quadram Institute Bioscience, UK  
*The Virome in Model Systems*

**David Wang**, Washington University School of Medicine, USA  
*Novel Lessons from the C. elegans Virome*

**Amit Kapoor**, University of Utah, USA  
*Animal Viromes Yield New Models for Human Viruses*

**Keir M. Balla**, Rice University, USA  
*Intestinal and Neuronal Inflammation Associated with Viral Reefscapes: Microbial Interactions with Threatened Coral Hosts and Reef Ecosystems*

**Robert Edwards**, San Diego State University, USA  
*Phage Behaving Badly and Clinical Workarounds*

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**Rabia Maqsood**, Arizona State University, USA  
*Discordant Transmission of Bacteria and Viruses from Mothers to Babies at Birth*

**Guanxiang Liang**, University of Pennsylvania, USA  
*Step-Wise Assembly of the Neonatal Virome Modulated by Breast Feeding*

**Leen Beller**, KU Leuven / REGA Institute, Belgium  
*Exploring the Diversity and Dynamics of the Gut Microbiome in Infants in Their First Year of Life*

**Rabia Maqsood**, Arizona State University, USA  
*Animal Viromes Yield New Models for Human Viruses*

**Rabia Maqsood**, Arizona State University, USA  
*Animal Viromes Yield New Models for Human Viruses*

**Keir M. Balla**, Rice University, USA  
*Intestinal and Neuronal Inflammation Associated with Viral Reefscapes: Microbial Interactions with Threatened Coral Hosts and Reef Ecosystems*
Kimberley Seed, University of California, Berkeley, USA  
*Bacteriophage-Host Arms Race in Vibrio cholerae*

Karen L. Maxwell, University of Toronto, Canada  
*Quorum Sensing Inactivation by a Phage Accessory Protein*

Rotem Sorek, Weizmann Institute of Science, Israel  
*Novel Antiphage Defense Systems*

Kate L. Jeffrey, Harvard Medical School, USA  
*Divergent Immunomodulation by Healthy and Inflammatory Bowel Disease Human Enteric Viromes*

Moira Dion, Université Laval, Canada  
*Short Talk: Optimizing Phage Host Predictions from Viral Metagenomics Using CRISPR Spacers*

Kevin Forsberg, Fred Hutchinson Cancer Research Center, USA  
*Short Talk: Functional Metagenomics-Guided Discovery of Potent Cas9 Inhibitors in the Human Microbiome*

Virome-Bacterial Microbiome Interactions

*Karen L. Maxwell, University of Toronto, Canada*

Megan T. Baldridge, Washington University School of Medicine, USA  
*Norovirus Infection, the Gut Microbiota and Interferon Lambda*

Paul E. Turner, Yale University, USA  
*Phage-Bacteria Interactions in the Evolution of Antibacterial Resistance*

Emily F. Wissel, Emory University, USA  
*Short Talk: The Vaginal Virome in Self-Identified African American Women Associated with Bacterial Community during Pregnancy and Preterm Birth*

Ryan A. Langlois, University of Minnesota, USA  
*Short Talk: Inmate Immune Barriers to Inter- and Intra-Species Virus Transmission and Evolution*

Paul Kirchberger, University of Texas, USA  
*Short Talk: Intraspecific Conflict in Ubiquitous Single-Stranded DNA Phages Is Caused by Hypervariable Genomic Regions*

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

THURSDAY, MARCH 5

Departure