

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

The Global Virome in Health and Disease (C1)

March 1-4, 2020 • Granlibakken Tahoe • Tahoe City, California, USA

Scientific Organizers: David Wang, Frederic D. Bushman and Mya Breitbart

Supported by the Directors' Fund

Abstract & Scholarship Deadline: October 30, 2019 / Abstract Deadline: November 21, 2019 / Discounted Registration Deadline: December 19, 2019

SUNDAY, MARCH 1

Arrival and Registration

MONDAY, MARCH 2

Welcome and Keynote Address

Forest Rohwer, San Diego State University, USA
Creating Pathogens with Piggybacking Phage

The Global Virome and Beyond

Mya Breitbart, University of South Florida, USA
Virus Discovery Across Biomes

Chantal Abergel, CNRS Aix-Marseille Université, France
The Concept of Virus in the Giant Virus Era

Edward C. Holmes, University of Sydney, Australia
Exploring the Eukaryotic Virosphere

Short Talk(s) Chosen from Abstracts

Beneficial and Commensal Viromes

Susan M. Lehman, AmpliPhi Biosciences, USA
Phage Therapy for the Treatment of Recalcitrant and Antibiotic-Resistant Infections

Robert Edwards, San Diego State University, USA
crAssphage: The Most Abundant Virus in the Human Enteric Virome

Ken H. Cadwell, New York University School of Medicine, USA
Immunomodulation by the Enteric Virome

Short Talk(s) Chosen from Abstracts

Poster Session 1

TUESDAY, MARCH 3

The Virome in Disease

Frederic D. Bushman, University of Pennsylvania, USA
The Virome in Lung Transplantation

Charles Chiu, University of California, San Francisco, USA
The Virome and Graft versus Host Disease

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

Eric L. Delwart, UCSF, USA
Koch's Postulates in the Age of Viral Metagenomics

Short Talk(s) Chosen from Abstracts

Workshop: Origins of the Human Virome

Short Talks Chosen from Abstracts

The Virome in Model Systems

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

Rebecca Vega Thurber, Oregon State University, USA
Viromes and Coral Disease

Amit Kapoor, Ohio State University, USA
Animal Viromes Yield New Models for Human Viruses

Short Talk(s) Chosen from Abstracts

Poster Session 2

WEDNESDAY, MARCH 4

Host-Virus Arms Race

Kimberley Seed, University of California, Berkeley, USA
*Bacteriophage-Host Arms Race in *Vibrio cholerae**

Karen L. Maxwell, University of Toronto, Canada
Discovery of Phage Encoded Anti-CRISPRs

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

Kate L. Jeffrey, Massachusetts General Hospital, Harvard Medical School, USA

Distinguishing the Immunomodulatory Intestinal Virome in Health and IBD

Short Talk(s) Chosen from Abstracts

Virome-Bacterial Microbiome Interactions

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

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

Tatyana V. Golovkina, University of Chicago, USA
Retroviral Infection and the Commensal Microbiota

Short Talk Chosen from Abstracts

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

THURSDAY, MARCH 5

Departure