

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

The Ins and Outs of Viral Infection: Entry, Assembly, Exit and Spread (C6)

March 30-April 4, 2014 • Beaver Run Resort • Breckenridge, Colorado, USA

Scientific Organizers: Karla Kirkegaard, Mavis Agbandje-McKenna and Eric O. Freed

Supported by the Directors' Fund

Abstract & Scholarship Deadline: December 2, 2013 / Abstract Deadline: January 7, 2014 / Discounted Registration Deadline: January 29, 2014

SUNDAY, MARCH 30

MONDAY, MARCH 31

Keynote Address

Geoffrey L. Smith, University of Cambridge, UK
Repulsion of Vaccinia Virus from Already-Infected Cells

Mechanisms of Cell Entry I

Erica Ollmann Saphire, The Scripps Research Institute, USA
Ebola Virus Entry

Mavis Agbandje-McKenna, University of Florida, USA
Non-Enveloped Capsid Calisthenics

Sean P. Whelan, Harvard Medical School, USA
VSV Entry

Short Talk(s) Chosen from Abstracts

Mechanisms of Cell Entry II

Matthew J. Evans, Mount Sinai School of Medicine, USA
HCV Cell Entry - What a Mess

Carolyn B. Coyne, University of Pittsburgh, USA
Viral Entry into Polarized Cells

Jason Mercer, ETH Zürich, Switzerland
The Cell Biology of Poxvirus Entry

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, APRIL 1

Virion Assembly and Post-Assembly Maturation

Andrea Gamarnik, Fundación Instituto Leloir, Argentina
Dengue Virus Encapsidation

Brett Lindenbach, Yale University School of Medicine, USA
HCV Assembly

Jack Johnson, The Scripps Research Institute, USA
Virus Particle Maturation: Insights into Elegantly Programmed Nano Machines

Eric O. Freed, NCI, National Institutes of Health, USA
Inhibition of HIV Maturation

Short Talk(s) Chosen from Abstracts

Cell Exit I

Xiaowei Zhuang, Harvard University, USA
Single Particle Imaging of Virus Trafficking

Ryland F. Young, Texas A & M University, USA
Bacteriophage Lysis: The Hole Story

Karla Kirkegaard, Stanford University School of Medicine, USA
Lytic and Non-lytic Viral Spread

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, APRIL 2

Cell Exit II

Juan Martin-Serrano, King's College London School of Medicine, UK
Multiple Roles of the ESCRT Machinery in Viral Replication

Walter Nickel[†], Heidelberg University, Germany
Unconventional Secretion Pathways

Speakers to be Announced

Short Talk(s) Chosen from Abstracts

Virus Structure

Félix Rey, Institut Pasteur (CNRS URA 3015), France
Ancestral Genes Used for Virus-Cell and Cell-Cell Fusion Identified by Structural Studies

Speaker to be Announced

Z. Hong Zhou, University of California, Los Angeles, USA
pH Sensing Mechanisms Revealed by the Atomic Model of the Dengue Virus

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, APRIL 3

Virus Spread I

Lucas Pelkmans[†], University of Zürich, Switzerland
Talk Title to be Determined

Alan S. Perelson, Los Alamos National Laboratory, USA
Modeling Viral Spread

Speakers to be Announced

Short Talk(s) Chosen from Abstracts

Virus Spread II

Julie K. Pfeiffer, University of Texas Southwestern Medical Center, USA
How Gut Microbes Enhance Enteric Virus Infectivity

Lynn W. Enquist, Princeton University, USA
Long-Distance Travel and Spread of Herpesviruses in the Nervous System

Akira Ono, University of Michigan, USA
HIV-1 Assembly and Cell-to-Cell Spread

Short Talk Chosen from Abstracts

FRIDAY, APRIL 4