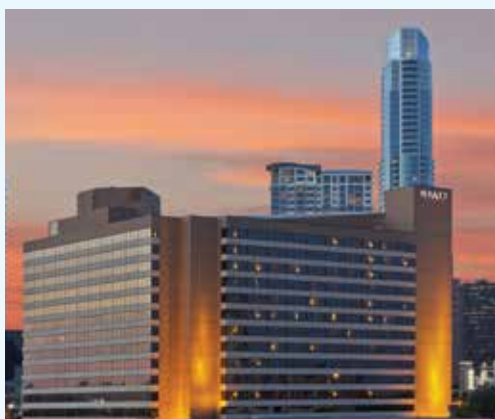




Join Keystone Symposia
for the 2016 conference on:

Positive-Strand RNA Viruses

May 1–5, 2016

Hyatt Regency Austin | Austin, Texas | USA

Scientific Organizers: Raul Andino and Peter D. Nagy

Positive-stranded RNA viruses are important and emerging human pathogens worldwide. Virus-host interactions and innate responses by the host are intensively studied areas, which promise novel broad-range and durable antiviral approaches against dangerous viruses. Topics covered by the meeting include basic advances in research on viral replication structures, virus entry and virus evolution; virus-host interactions, discussed from the virus view on changing the host (including systems biology) and host responses and defense mechanisms; and emerging therapeutics. It is anticipated that rapidly emerging new concepts on virus-host interactions will help the participants to test various host factors for a large number of positive-strand RNA viruses to expand the arsenal of antiviral approaches. This meeting will bring together experts on positive-stranded RNA viruses that will facilitate the rapid progress and dissemination of new concepts in the complex field of virus-host interactions. Also, speakers who are expert with other groups of viruses will be invited to facilitate cross-talk with other areas in virology. Among the speakers will be interdisciplinary scientists who would not normally meet with this group of researchers. Virology, cell biology, genetics, evolution, macromolecular structures/assembly, systems biology and imaging will all be brought together.

Session Topics:

- Systems Biology: From "Omics" to Function
- Entry, Trafficking and Exiting
- Replication Organelles, Membranes, Proteins, Lipids and Stuff...
- Replication Enzymes and Other Factors
- Virus Modulations of Host Pathways
- Evolution, Adaptation and Virus Fitness
- Immunity and Stress Responses
- Therapeutic Interventions



Submitting an abstract is a great way of participating in the conference through poster presentation and possible selection for a short talk.

Scholarship & Discounted Abstract Deadline: Jan 6, 2016

Abstract Deadline: Feb 3, 2016

Discounted Registration Deadline: Mar 2, 2016

For additional details, visit www.keystonesymposia.org/16N1.

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SUNDAY, MAY 1

Arrival and Registration

MONDAY, MAY 2

Welcome and Keynote Address

Anna Marie Pyle, Yale University, USA
RNA Helicases

Systems Biology: From "Omics" to Function

Nevan J. Krogan, University of California, San Francisco, USA
Proteomics, Functional Genomics, eMAPs on Dengue Virus Replicating in Humans and Mosquitoes

Shin-Ru Shih, Chang Gung University, Taiwan
Host-Factors Involved in Enterovirus Replication

Benjamin R. tenOever, Icahn School of Medicine at Mount Sinai, USA
Functional Antiviral Genomics through in vivo RNAi Screens

Short Talk(s) Chosen from Abstracts

Entry, Trafficking and Exiting

Félix Rey, Institut Pasteur, France
Virus Receptor Interactions and Uncoating

Carolyn B. Coyne, University of Pittsburgh, USA
Roadblocks: Polarized Cells as Barriers to RNA Virus Entry and Infection

Julie K. Pfeiffer, University of Texas Southwestern Medical Center, USA
Enteroviruses and the Microbiota

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, MAY 3

Replication Organelles, Membranes, Proteins, Lipids and Stuff...

Ralf Bartenschlager, University of Heidelberg, Germany
Replication Organelles in HCV/Dengue/etc.

Richard J. Kuhn, Purdue University, USA
Structure - Function Studies of Flavivirus Replication Proteins

Paul Ahlquist, University of Wisconsin-Madison, USA
Replication Organelle Structure and Function in the Alphavirus Superfamily and Nodaviruses

Nihal Altan-Bonnet, NHLBI, National Institutes of Health, USA
Phosphatidylserine Vesicles Enable Efficient en bloc Transmission of Multiple Enteroviruses

Short Talk(s) Chosen from Abstracts

Poster Session 2

Replication Enzymes and Other Factors

K. Andrew White, York University, Canada
Regulation of Plus-Strand RNA Virus Processes by Viral Genomic RNA Elements

Eric J. Snijder, Leiden University Medical Center, Netherlands
The RNA-Protein Interplay of Arterivirus Replication

John T. Patton, University of Maryland, USA
How Rotaviruses Do It? RNA Synthesis in dsRNA Viruses

Short Talk Chosen from Abstracts

WEDNESDAY, MAY 4

Virus Modulations of Host Pathways

Peter D. Nagy, University of Kentucky, USA
Host Factors in Plant Virus Replication

Sean P. Whelan, Harvard Medical School, USA
VSV Polymerase Architecture and Activity Regulated by Host Cell Factors

Karla A. Kirkegaard, Stanford University School of Medicine, USA
Noncoding RNAs and Virus Infection

Michael Gale, Jr., University of Washington, USA
Pathogen Sensing in RNA Virus Infection

Short Talk(s) Chosen from Abstracts

Evolution, Adaptation and Virus Fitness

Claus Wilke, University of Texas at Austin, USA
Modeling of Virus Evolution

Paul Turner, Yale University, USA
Experimental Evolution and Innate Immunity

Raul Andino, University of California, San Francisco, USA
Population Dynamics, Adaptation and Pathogenesis

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, MAY 5

Immunity and Stress Responses

Michael S. Diamond, Washington University School of Medicine, USA
Sensing RNA Viruses and Silencing Host Responses

Richard E. Lloyd, Baylor College of Medicine, USA
Virus Antagonism of RNA Granules

Maria-Carla Saleh, Institut Pasteur, France
Antiviral Immunity in Insects

Ana Fernandez-Sesma, Mount Sinai School of Medicine, USA
Innate Immunity to Dengue Virus

Short Talk(s) Chosen from Abstracts

Therapeutic Interventions

Judith Frydman, Stanford University, USA
Host Protein Homeostasis Machinery as Antiviral Target

Susan C. Baker, Loyola University Chicago, USA
Coronavirus Interventions

Johan Neyts, University of Leuven, Belgium
Towards Antivirals against Flavi-, Picorna-, Alpha- and Noroviruses

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

FRIDAY, MAY 6

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Departure