

Dynamic interplay between viruses and their hosts

November 8th - November 9th, 2014

Venue PACIFICO YOKOHAMA 4F 412, JAPAN

8
November
Sat.

13:20 Opening remark
13:30-15:50 **Session 1** Innate immunity to viral infections
Chair : Takashi Fujita & Satoshi Koike

Adolfo Garcia-Sastre Icahn School of Medicine at Mount Sinai, New York, USA
● Induction and regulation of antiviral innate signaling.

Mitsutoshi Yoneyama Chiba University, Japan
● Regulation of antiviral innate immunity by the host RNA binding proteins.

Peter Staeheli University Medical Center Freiburg, Germany
● Uncovering the role of interferon- λ in antiviral defense.

Umeji Ohto The University of Tokyo, Japan
● Structural study of Toll-like receptor 8 recognizing viral single stranded RNA.

16:10 -17:55 **Session 2** New approaches for virus research
Chair: Tohru Natsume & Hisashi Arase

Takeshi Noda University of Tokyo, Japan
● Packaging of the influenza A virus ribonucleoprotein complexes.

Louis J. Picker Oregon Health & Science University, USA
● Cytomegalovirus Vectors: A "New" Immunology from a Very Old Virus.

Kyosuke Nagata University of Tsukuba, Japan
● From the molecular mechanism of influenza virus genome replication and transcription to the influenza virus control.

9
November
Sun.

9:10-11:30 **Session 3** Viral pathogenesis and treatment
Chair: Akinori Takaori & Yusuke Yanagi

Takaji Wakita National Institute of Infectious Diseases
● Regulation of viral lifecycle in hepatitis C virus infection.

Richard K. Plemper Georgia State University, USA
● Insights from the Measles Virus System Illuminate Paramyxovirus Entry and Highlight Druggable Targets for Anti-Paramyxovirus Therapy.

Akihisa Kato The University of Tokyo
● Central nervous system specific virulence of herpes simplex virus 1 involves phosphorylation of a viral dUTPase by a viral protein kinase.

Warner Greene University of California, San Francisco, USA
● HIV/AIDS and the Death of CD4 T cells: A Little Murder and a Lot of Suicider.

13:00-14:45 **Session 4** Viral evolution and mathematic models
Chair: Yoshio Koyanagi & Hideo Iba

Akira Sasaki The Graduate University for Advanced Studies, Japan
● Coevolutionary dynamics of human antiviral protein APOBEC3G and its viral antagonist Vif.

Raul Andino University of California, USA
● RNA virus population dynamics and the mechanisms of replication and adaptation.

Masayuki Ishikawa National Institute of Agrobiological Sciences, Japan
● Mathematical modeling of positive-strand RNA virus infection in single cells reveals a sophisticated adaptation system of the viruses.



Grant-in-Aid for Scientific Research on Innovative Areas

Molecular basis of host cell competency in virus infection

