Program

September 8 (Tue)

13:30 – 16:00  Technical Seminar
Organized by: Young Researchers Forum on Infectious Diseases Committee

13:30  Opening Remarks

13:40  Super Resolution Microscope (Nikon)

14:10  Liposome (Katayama Chemical Industries Co., Ltd.)

14:40  Break (15 min)

14:55  Exosome (QIAGEN K.K.)

15:25  Genome Editing (Thermo Fisher Scientific K.K.)

15:55  Closing Remarks

16:30  Opening Remarks for The 14th Awaji International Forum on Infection and Immunity
Yasushi Kawaguchi, The University of Tokyo, Japan

16:40 – 18:20  Session 1: Pathogen to Host Interactions I
Chairs: Joel D. Baines, Louisiana State University, USA
Ayato Takada, Hokkaido University, Japan

16:40   S1-1  Joel D. Baines, Louisiana State University, USA
Novel Cellular Kinases Required for HSV Transcription

17:20   S1-2  Hirofumi Sawa, Hokkaido University, Japan
Epidemiological and Basic Research Activities Targeting Polyomaviruses

17:50   S1-3  Joseph D. Mougous, University of Washington, USA
Recent insights into the export and activity of type VI secretion toxins

18:30 – 20:30  Welcome Party
Banquet Hall STELLA (Westin Hotel 1F)

September 9 (Wed)

9:00 – 12:15  Session 2: Pathogen to Host Interactions II
Chairs: Daniel R. Perez, University of Georgia, USA
Kouichi Morita, Nagasaki University, Japan

9:00   S2-1  Daniel R. Perez, University of Georgia, USA
Plasticity of Influenza Viruses

9:30   S2-2  Tokiko Watanabe, The University of Tokyo, Japan
Host-virus interactions in influenza virus replication

10:00  S2-3  Jonathan A. McCullers, University of Tennessee, USA
Acute lung injury results from innate sensing of viruses by an ER stress pathway
10:30  Break (15 min)

10:45  S2-4  Chikara Kaito, The University of Tokyo, Japan
Mobile genetic element of MRSA encodes a virulence suppressor

11:15  S2-5  Brendan Scott Crabb, Burnet Institute, Australia
PTEX is an essential gateway for protein export in malaria parasites

11:45  S2-6 (P-14)  Yasuko Mori, Kobe University, Japan
Identification of amino acid residues within CD134 required for HHV-6B infection

12:00  S2-7 (P-66)  Shiho Suzuki, The University of Tokyo, Japan
Shigella IpaH7.8 E3 ubiquitin ligase targets glomulin and activates Inflamasomes

12:15 – 13:45  Free Lunch for Participants

13:45 – 15:15  Poster Session 1 (odd numbers)

15:15 – 18:00  Session 3: Immunology I
Chairs: Alexander V. Chervonsky, The University of Chicago, USA
Hisashi Arase, Osaka University, Japan

15:15  S3-1  Shigeo Koyasu, RIKEN, Japan
Regulatory mechanisms of of ILC2 functions in allergic inflammation

15:45  S3-2  Alexander V. Chervonsky, The University of Chicago, USA
Inducible glycosylation as a mediator of host-microbiota symbiosis

16:15  S3-3 (P-82)  Sarang Tartey, Kyoto University, Japan
Essential Function for the Nuclear Protein Akirin2 in B Cell Activation and Humoral Immune Responses

16:00  Break (15 min)

16:45  S3-4  Hiroyoshi Nishikawa, National Cancer Center, Japan
Role of regulatory T cells in inflammation-associated colorectal cancer; Friends or foes?

17:15  S3-5  David W. Pascual, University of Florida, USA
Varied Innate Cell Responses in the Lungs Following Live Vector Vaccination or Wild-Type Brucella Infection

17:45  S3-6 (P-81)  Daisuke Fujikura, Hokkaido University, Japan
Death receptor 6 is involved in a regulatory mechanism for follicular helper T cell.

September 10 (Thu)

9:00 – 10:00  Session 4: Pathogen to Host Interactions III
Chair: Yoshio Koyanagi, Kyoto University, Japan

Co-organized by Japan Society for the Promotion of Science (JSPS) Core-to-Core Program
‘International research network for virus infections and host responses’

9:00  S4-1  Masafumi Takiguchi, Kumamoto University, Japan
Control of HIV-1 by CTLs specific for conserved epitopes

9:30  S4-2  Jarome A. Zack, UCLA, USA
Novel PKC activators for HIV latency reversal

10:00  Break (15 min)
10:15 – 12:15  **Session 5: Pathogen to Host Interactions IV**  
Chairs: Eric O. Freed, National Cancer Institute, USA  
Keizo Tomonaga, Kyoto University, Japan

10:15  S5-1  Eric O. Freed, National Cancer Institute, USA  
Development of potent and broadly active “second-generation” HIV-1 maturation inhibitors; insights into Gag structure and function

10:45  S5-2  Hitomi Mimuro, The University of Tokyo, Japan  
*Helicobacter pylori* infection and microRNA

11:15  S5-3  Takeshi Ichinohe, The University of Tokyo, Japan  
Regulation of inflammasome activation by influenza A viruses

11:45  S5-4 (P-62)  Takuhiro Matsumura, Osaka University, Japan  
Botulinum neurotoxin type A complex exploits intestinal M cells to enter the host and exert neurotoxicity

12:00  S5-5 (P-25)  Atsuhiro Yasuhara, The University of Tokyo, Japan  
Characterization of the antigenic properties of influenza A(H1N1)pdm09 virus

12:15 – 13:45  Free Lunch for Participants

13:45 – 15:15  **Poster Session 2 (even numbers)**

15:15 – 17:45  **Session 6: Pathogen to Host Interactions V**  
Chairs: Colin M. Crump, University of Cambridge, UK  
Yoshihiro Kawaoka, The University of Tokyo, Japan

15:15  S6-1  Toru Okamoto, Osaka University, Japan  
Signal peptide peptidase regulates propagation and pathogenesis of hepatitis C virus

15:45  S6-2  Colin M. Crump, University of Cambridge, UK  
Delivery of viral glycoproteins to herpes simplex virus assembly sites

16:15  S6-3 (P-41)  Yutaka Terada, Yamaguchi University, Japan  
Function of SARS-CoV nsp4 in replication organelle formation

16:30  Break (15 min)

16:45  S6-4  Derek J. Smith, University of Cambridge, UK  
Antibody landscapes after influenza virus infection or vaccination

17:15  S6-5  Hiroshi Ashida, The University of Tokyo, Japan  
*Shigella* manipulates host immune responses by delivering effector proteins with specific roles

17:45  S6-6 (P-20)  Akiko Makino, Kyoto University, Japan  
The regulation of Borna disease virus production

18:30 – 20:30  **BBQ Party**  
Terrace of Coccolare (Westin Hotel 2F)

**September 11 (Fri)**

9:00 – 11:30  **Session 7: Immunology II**  
Chairs: David W. Pascual, University of Florida, USA  
Takashi Fujita, Kyoto University, Japan

9:00  S7-1  Takashi Fujita, Kyoto University, Japan  
Dysregulation of RIG-I-Like Receptor-dependent signaling causes autoimmune disorder

9:30  S7-2  Thirumala-Devi Kanneganti, St Jude Children's Research Hospital, USA  
Regulators of Inflammatory Responses
Hiroyuki Oshiumi, Hokkaido University, Japan
DDX60 RNA helicase is involved in RIG-I-dependent and independent innate immune response to viral infection

Yoshiyuki Goto, The University of Tokyo, Japan
Commensal microbiota create mucosal barrier system against bacterial infection

Ken Fujii, Tokyo Metropolitan Institute of Medical science, Japan
The role of Type I Interferon system for control of EV71 Infection

Midori Nakamura, National Institute of Infectious Diseases, Japan
Nucleotide changes in viral genome CD8+ T-cell target regions before and after anti-retroviral therapy in a macaque AIDS model

Andrew T. McGuire, Fred Hutchinson Cancer Research Center, USA
Immunogen design and optimization to target germline B cell receptors that give rise to broadly neutralizing antibodies against HIV-1

Manoj T. Duraisingh, Harvard School of Public Health, USA
Red blood cell determinants of malaria infection

Junya Yamagishi, Hokkaido University, Japan
How to approach the diversity in transcriptome, a key to elucidate host-parasite interaction in genomic era

Vahab Ali, RMRIMS, India
Characterization of ferredoxin isoforms of Entamoeba histolytica: In silico modelling and protein-protein interaction

Kazuhide Yahata, Nagasaki University, Japan
Calcium monitoring in Plasmodium falciparum through Yellow Cameleon-Nano Biosensors

Takashi Fujita, Kyoto University, Japan