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 Mor**i, 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 Inflammasomes

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

16:30 *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'

研究拠点形成事業
Core-to-Core Program
JAPAN SOCIETY FOR THE PROMOTION OF SCIENCE
日本学術振興会

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

10:00 S7-3 (P-79) **Hiroyuki Oshiumi**, Hokkaido University, Japan
DDX60 RNA helicase is involved in RIG-I-dependent and independent innate immune response to viral infection

10:15 *Break (15 min)*

10:30 S7-4 **Yoshiyuki Goto**, The University of Tokyo, Japan
Commensal microbiota create mucosal barrier system against bacterial infection

11:00 S7-5 (P-17) **Ken Fujii**, Tokyo Metropolitan Institute of Medical science, Japan
The role of Type I Interferon system for control of EV71 Infection

11:15 S7-6 (P-78) **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

11:30 – 13:00 *Free Lunch for Participants*

13:00 – 15:00 **Session 8: Pathogen to Host Interaction VI**

Chairs: **Manoj T. Duraisingh**, Harvard School of Public Health, USA
Osamu Kaneko, Nagasaki University, Japan

13:00 S8-1 **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

13:30 S8-2 **Manoj T. Duraisingh**, Harvard School of Public Health, USA
Red blood cell determinants of malaria infection

14:00 S8-3 **Junya Yamagishi**, Hokkaido University, Japan
How to approach the diversity in transcriptome, a key to elucidate host-parasite interaction in genomic era

14:30 S8-4 (P-61) **Vahab Ali**, RMRIMS, India
Characterization of ferredoxin isoforms of Entamoeba histolytica: In silico modelling and protein-protein interaction

14:45 S8-5 (P-53) **Kazuhide Yahata**, Nagasaki University, Japan
Calcium monitoring in Plasmodium falciparum through Yellow Cameleon-Nano Biosensors

15:10 **Closing Remarks**

Takashi Fujita, Kyoto University, Japan