Program

September 10 (Tue)

13:00 – 13:40 **Training Course I: Virology**
Jun-ichi Sakuragi, Osaka University, Japan

13:45 – 14:25 **Training Course II: Bacteriology**
Hitomi Mimuro, The University of Tokyo, Japan

14:25 – 14:45 *Break*

14:45 – 15:25 **Training Course III: Parasitology**
Osamu Kaneko, Nagasaki University, Japan

15:30 – 16:10 **Training Course IV: Immunology**
Ai Kawana-Tachikawa, The University of Tokyo, Japan

16:30 **Opening Remarks**
Aikichi Iwamoto, The University of Tokyo, Japan

16:40 – 17:30 **Keynote Lecture**
Chair: **Aikichi Iwamoto,** The University of Tokyo, Japan
Ashley T. Haase, University of Minnesota, USA
Insights from the SIV-animal model on how to prevent HIV-1 transmission to women

17:35 – 18:05 **Session 1: Viral Pathogenesis I**
Chair: **Eisuke Mekada**, Osaka University, Japan
Kyosuke Nagata, University of Tsukuba, Japan
Host factor-dependent RNA replication of the influenza virus genome

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

September 11 (Wed)

7:30 – 9:00 *Free Breakfast for Participants*

9:00 – 11:45 **Session 2: Viral Pathogenesis II**
Chairs: **Paula M. Cannon,** University of Southern California, USA
Yasushi Kawaguchi, The University of Tokyo, Japan

9:00 S2-1 **David M. Knipe,** Harvard Medical School, USA
Nuclear DNA Sensing, Innate Immunity, and Epigenetic Regulation of Herpes Simplex Virus Lytic and Latent Infection

9:30 S2-2 **Yoshio Koyanagi,** Kyoto University, Japan
Intrinsic cellular defenses against retroviruses and DNA viruses

10:00 S2-3 **Keizo Tomonaga,** Kyoto University, Japan
Persistent infection of bornavirus reveals possible mechanism of intranuclear sensing of RNA virus infection

10:30 *Break (15 min)*

10:45 S2-4 (P-18) **Ken Fujii,** Tokyo Metropolitan Institute of Medical Science, Japan
A SCARB2-transgenic mouse model for the study of enterovirus 71 pathogenesis

10:57 S2-5 (P-07) **Kotaro Mori,** University of Tsukuba, Japan
Tamiflu resistant cell-to-cell transmission of cell-associated influenza virus

11:09 S2-6 (P-31) **Hiroyuki Yamamoto,** National Institute of Infectious Diseases, Japan
Selection of a survival signal-modulating CTL escape mutant precedes SIV neutralizing antibody induction

11:21 S2-7 (P-26) **Noriyoshi Yoshinaga,** Kyoto University, Japan
A screening for DNA repair enzymes involved in HIV-1 replication

11:33 S2-8 (P-11) **Keiko Yasuma,** Kyoto University, Japan
Analysis of HTLV-1 subgroups as a predictor for developing HAM/TSP.

11:45 – 13:00 *Free Lunch for Participants*

13:00 – 14:30 **Poster Session 1 (odd numbers)**

14:30 – 16:42 **Session 3: Structural Basis for Pathogenesis and Protection**

Chairs: **George F. Gao**, Chinese Academy of Sciences, China
Aikichi Iwamoto, The University of Tokyo, Japan

14:30 S3-1 **Zihe Rao,** Nankai University, China
Structural insights into the agents of hand, foot and mouth disease

15:00 S3-2 **Takeshi Noda,** The University of Tokyo, Japan
Genome Packaging Mechanisms of Influenza A Virus

15:30 S3-3 **Takao Hashiguchi,** Kyushu University, Japan
Structures of measles virus hemagglutinin provide virus entry and effective measles vaccine

16:00 S3-4 **George F. Gao,** Chinese Academy of Sciences, China
Influenza virus entry and release: from 2009 pandemic to bat-derived genome and novel H7N9

16:30 S3-5 (P-71) **Tomoko Kubori,** Osaka University, Japan
Characterization of *Legionella* DotI and DotJ subcomplex reveals a VirB8-like structure essential for type IV secretion function

16:42 – 17:00 *Break*

17:00 – 18:12 **Session 4: Application of Microbes to Treatment and Vaccines**

Chairs: **David M. Knipe,** Harvard Medical School, USA
Yoshio Koyanagi, Kyoto University, Japan

17:00 S4-1 **Paula M. Cannon,** University of Southern California, USA
Engineering stem cells to build an HIV-resistant immune system

17:30 S4-2 **Kei Kawana,** The University of Tokyo, Japan
A novel approach: Immunotherapy for cervical intraepithelial neoplastic lesions through HPV E7-specific mucosal immunity

18:00 S4-3 (P-90) **Takumi Kawasaki,** Nara Institute of Science and Technology (NAIST), Japan
Regulation of innate immune signaling by PtdIns5P

September 12 (Thu)

7:30 – 9:00 *Free Breakfast for Participants*

9:00 – 11:51 **Session 5: Mucosal Immunity and Infection**

Chairs: **Ivaylo Ivanov,** Columbia University, USA
Hiroshi Kiyono, The University of Tokyo, Japan

9:00	S5-1	**Won Jae Lee,** Seoul National University, Korea Dysbiosis and Chronic inflammation: Lessons from the Drosophila genetic model
9:30	S5-2	**Koji Hase,** The University of Tokyo, Japan A commensal microbe-derived short-chain fatty acid epigenetically induces colonic regulatory T cells
10:00	S5-3	**Satoshi Uematsu,** The University of Tokyo, Japan TLR3/dsRNA complex inhibitor protects mice from lethal radiation-induced gastrointestinal syndrome
10:30	S5-4	**Ivaylo Ivanov,** Columbia University, USA Mechanisms of induction of intestinal Th17 cells by commensal bacteria
11:00		*Break (15 min)*
11:15	S5-5 (P-35)	**Chikako Shimokawa,** Nagasaki University, Nagasaki, Japan Intestinal inflammatory mediated clearance of *Entamoeba moshkovskii* is dependent on IFN-γ
11:27	S5-6 (P-79)	**Daisuke Ori,** Kyoto University, Kyoto, Japan Essential Roles of K63-Linked Polyubiquitin-Binding Proteins, TAB2 and TAB3 in B Cell Activation via MAPKs**.**
11:39	S5-7 (P-81)	**Masahide Funabiki,** Kyoto University, Japan Dysregulation of MDA5-dependent signaling causes autoimmune disorder.

11:51 – 13:00 *Free Lunch for Participants*

13:00 – 14:30 **Poster Session 2 (even numbers)**

14:30 – 17:45 **Session 6: Bacterial Pathogenesis**

Chairs: **Jeffery S. Cox,** University of California, USA
Yasuhiko Horiguchi, Osaka University, Japan

14:30	S6-1	**Jeffery S. Cox,** University of California, USA The ubiquitin ligase PARKIN is required for autophagy and host resistance to intracellular pathogens.
15:00	S6-2	**Eun-Kyeong Jo,** Chungnam National University, Korea Autophagy and mycobacterial infection
15:30	S6-3	**Masanobu Nakata,** Osaka University, Japan Mode of Expression and Assembly Mechanism of Group A Streptococcal Pili
16:00	S6-4	**Tetsuya Iida,** Osaka University, Japan Type III secretion effectors and pathogenicity of *Vibrio parahaemolyticus*
16:30		*Break (15 min)*

Chair: **Hitomi Mimuro**, The University of Tokyo, Japan

16:45 S6-5 (P-65) **Bhim G Dhoubhadel,** Nagasaki University, Japan
Association of Bacterial Load and Multiple-Serotype Colonization of Pneumococcus with Childhood Pneumonia in Vietnam.

16:57 S6-6 (P-62) **Erika Ban,** Osaka City University, Japan
DNA sequence and analysis of virulence plasmid of enterotoxigenic Escherichia coli O169:H41 that adheres to HEp-2 cells in unique aggregative adhesion-like manner

17:09 S6-7 (P-64) **Jun Kurushima,** Gunma University, Japan
Functional analysis of bacteriocin Bac41 produced by *Enterococcus faecalis* clinical isolates

17:21 S6-8 (P-82) **Takeshi Matsuzawa,** Osaka Prefecture University, Japan
Autophagy activation by interferon- γ via the p38 MAPK signaling pathway is involved in macrophage bactericidal activity

17:33 S6-9 (P-85) **Jin Kyung Kim,** Chungnam National University, Korea
MicroRNA-17-5p regulates Mycobacterium tuberculosis-induced Innate immune responses in murine macrophages

19:00 – 20:30 **BBQ Party**
Terrace of Coccolare (Westin Hotel 2F)

September 13 (Fri)

7:30 – 9:00 *Free Breakfast for Participants*

9:00 – 11:51 **Session 7: Evolution of Organelle**
Chairs: **Tomoyoshi Nozaki,** National Institute of Infectious Diseases, Japan
Toshihiro Horii, Osaka University, Japan

9:00 S7-1 **Andreas Weber,** Heinrich Heine University Düsseldorf, Germany
Plastid endosymbiosis - pas de deux or menage a trois?

9:30 S7-2 **Masato Nakai,** Osaka University, Japan
New evolutionary insights into the chloroplast protein import system

10:00 S7-3 **Yasuko Rikihisa,** The Ohio States University, USA
Type IV Secretion Effector that Links Autophagy to Intracellular Bacterial Nutrition

10:30 S7-4 **Hiroki Nagai,** Osaka University, Japan
Interdomain protein transport: a key strategy employed by bacterial pathogens and symbionts.

11:00 *Break (15 min)*

11:15 S7-5 (P-42) **Cevayir Coban,** Osaka University, Japan
Imaging Cerebral Malaria Immunopathology

11:27 S7-6 (P-46) **Hussein Abkallo,** Nagasaki University, Japan
Quantitative Whole Genome Resequencing and Genetic Linkage Analyses To Identify Genes Controlling Virulence in Malaria Parasites

11:39 S7-7 (P-50) **Yongjin Qiu,** Hokkaido University, Japan
Analysis on tick microbial populations using next generation sequence technique

11:51 – 13:00 *Free Lunch for Participants*

13:00 – 15:00 **Session 8: Global Issues in Emerging Infection I**

Chairs: **Dexin Li,** National Institute for Viral Disease Control and Prevention, China
Tatsuo Shioda, Osaka University, Japan

13:00 S8-1 **Ayato Takada,** Hokkaido University, Japan
Recent advances in filovirus research: Epidemiology and antiviral strategies

13:30 S8-2 **Futoshi Hasebe,** Nagasaki University, Vietnam
Nipah virus study in Vietnam: Can an outbreak happen or not?

14:00 S8-3 **Dexin Li,** National Institute for Viral Disease Control and Prevention, China
SFTS virus - a highly pathogenic new bunyavirus emerged in China

14:30 S8-4 **Yoshichika Arakawa,** Nagoya University, Japan
Global concerns arising from rapid spread of new multidrug-resistant Gram-negative pathogens including CRE

15:00 – 15:05 *Break*

15:05 – 15:35 **Session 9: Global Issues in Emerging Infection II**

Chair: **Keizo Tomonaga**, Kyoto University, Japan

Yoshihiro Kawaoka, The University of Tokyo, Japan
Pandemic potential of H7N9 influenza A viruses isolated from humans

15:35 **Closing Remarks**

Hitoshi Kikutani, Osaka University, Japan