

Program

September 10 (Tue)

14:45 **Opening Remarks**

15:00-16:00 **Review Talk 1**

Chair: **Hisashi Arase**, Osaka University

RT-1 **Michel C. Nussenzweig**, Howard Hughes Medical Institute/The Rockefeller University
The HIV Problem

16:00 *Break*

16:15-18:30 **Symposium 1: Immune Responce to Pathogen**

Chair: **Sho Yamasaki**, Osaka University
Miwa Sasai, Osaka University

16:15 1S-1 **Osamu Takeuchi**, Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, Kyoto, Japan
Regulation of immune responses by RNA degradation

16:40 1O/P-2(P-104) **Masatoshi Momota**, Laboratory of Adjuvant Innovation, National Institutes of Biomedical Innovation, Health and Nutrition, Osaka, Japan
ZBP1 is essential for inflammasome-independent IL-1 and neutrophil inflammation during influenza A virus infection.

16:50 1S-3 **Masashi Shingai**, Research Center for Zoonosis Control, Hokkaido University, Sapporo, Japan
Inactivated whole influenza virus particle vaccine showed balanced immunogenicity and safety

17:15 1O/P-4(P-89) **Takumi Kawasaki**, Division of Biological Science, Graduate School of Science and Technology, Nara Institute of Science and Technology (NAIST), Japan
Phosphatidylinositol regulates innate immune signaling

17:25 1S-5 **Masahiro Yamamoto**, Department of Immunoparasitology, RIMD, Osaka University
Role of CXCR4 in liver stage Plasmodium development

17:50 1O/P-6(P-98) **Ryota Sato**, Division of Innate Immunity, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan
Combating herpesvirus encephalitis by potentiating a TLR3-mTORC2 axis

18:00 1S-7 **Feng Shao**, National Institute of Biological Sciences, Beijing, PR CHINA
Innate immunity to cytosolic LPS: pyroptosis and beyond

18:45-20:45 **Welcome Reception**

September 11 (Wed)

9:00-10:00 **Review Talk 2**

Chair: **Tetsuya Iida**, Osaka University

RT-2 **John J. Mekalanos**, Harvard Medical School

Vibrio cholerae *in vivo* biology: microbial antagonism, cGAS-like enzymes, and cholera toxin-mediated remodeling of host metabolism

10:00 *Break*

10:15-12:30 **Symposium 2: Host-pathogen Interaction (1)**

Chair: **Hitomi Mimuro**, Osaka University

Takasuke Fukuhara, Osaka University

10:15 2S-1 **Nina M. van Sorge**, University Medical Center Utrecht, Medical Microbiology, Utrecht, The Netherlands

Get dressed for battle: how the bacterial sugar coat impacts immune recognition

10:45 2O/P-2(P-65) **Yukihiro Hiramatsu**, Department of Molecular Bacteriology, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan

Identification of *Bordetella* dermonecrotic toxin receptor

10:55 2S-3 **Fuyuki Tokumasu**, Department of Cellular Architecture Studies, Institute of Tropical Medicine, Nagasaki University

Importance of Lipid Biology in *Plasmodium falciparum* development and differentiation

11:20 2O/P-4(P-25) **Jeffery A. Nurdin**, Department of Virology, Research Institute for Microbial Diseases, Osaka University

Reverse Genetic System for Human Rotavirus A Odelia strain

11:30 2S-5 **Shigeaki Matsuda**, Department of Bacterial Infections, Research Institute for Microbial Diseases, Osaka University, Japan

Unconventional export of a *Vibrio parahaemolyticus* toxin facilitates the virulence trait

11:55 2O/P-6(P-68) **Hiroataka Hiyoshi**, School of Medicine, University of California, Davis, USA

T3SS-2 functions in evasion of neutrophil-mediated killing of *Salmonella* enterica serovar Typhimurium in the mouse

12:05 2S-7 **Ichiro Nakagawa**, Department of Microbiology, Kyoto University Graduate School of Medicine, Kyoto, Japan

Regulation of Xenophagy in Group A *Streptococcus* Infection

12:30-13:30 *Lunch*

13:30-15:00 **Poster Session 1 (Odd Numbers)**

15:00-16:00 **Review Talk 3**

Chair: **Yasushi Kawaguchi**, The University of Tokyo

RT-3 **Masahide Kikkawa**, Dept. of Cell Biology and Anatomy, Grad. Schl. of Medicine,
The Univ. of Tokyo

How to use cryo-electron microscopy for infection and immunity research?

16:00 *Break*

16:15-18:30 **Symposium 3: Genomics in Host-pathogen Interaction**

Chair: **Daron M. Standley**, Osaka University

Kazuhiro Suzuki, Osaka University

16:15 3S-1 **Tadahiro Suenaga**, Department of Immunochemistry, Research Institute for
Microbial Diseases, Osaka University, Osaka, Japan

Misfolded protein / MHC class II complex in autoimmune diseases

16:40 3S-2 **Takashi Shiina**, Department of Molecular Life Science, Tokai University School of
Medicine

HLA gene diversity analyses for infectious diseases

17:05 3O/P-3(P-95) **Mara A Llamas-Covarrubias**, Genome Information Research Center, Department
of Genome Informatics, Research Institute of Microbial Diseases, Osaka
University, Japan

TCR repertoire and gene expression in single Treg and Tconv cells in a
model of rheumatoid arthritis

17:15 3O/P-4(P-22) **Takayuki Murata**, Department of Virology and Parasitology, Fujita Health
University School of Medicine

Genome analysis of chronic active Epstein-Barr virus infection

17:25 3S-5 **Chie Nakajima**, Hokkaido University Research Center for Zoonosis Control

Genetic analyses of multidrug-resistant *Mycobacterium tuberculosis*
clinical isolates collected in Asian countries

17:50 3O/P-6(P-67) **Tomoko Kubori**, Department of Microbiology, Graduate School of Medicine, Gifu
University, Gifu, Japan

Legionella manipulates non-canonical SNARE pairing by the function of
a bacterial deubiquitinase

18:00 3S-7 **Karine G. Le Roch**, Department of Molecular, Cell and Systems Biology, University
of California Riverside, 900 University Ave, Riverside, CA 92521, USA.

Comparative 3D Genome Organization in Apicomplexan Parasites

September 12 (Thu)

9:00-10:00 **Review Talk 4**

Chair: **Shiroh Iwanaga**, Tokyo Medical and Dental University

- RT-4 **Mats Wahlgren**, Karolinska Institutet
Biology and Pathogenesis of Severe Malaria

10:00 *Break*

10:15-12:30 **Symposium 4: Host-pathogen Interaction (2)**

Chair: **Masahiro Yamamoto**, Osaka University
Takahiro Tougan, Osaka University

- 10:15 4S-1 **Jilong Shen**, The Key Laboratory of Parasitology and Zoonoses of Anhui, Anhui Medical University, Hefei, China
Toxoplasma gondii prevalent in China: genotypes and pathogenesis in abnormal pregnant outcomes
- 10:45 4S-2 **Kazuyo Moro**, Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University
ILC2-derived IL-4 induces innate IgE secretion by B1 cells
- 11:10 4O/P-3(P-48) **Md. Abu Musa**, Doctoral Leadership Program, Graduate School of Biomedical Science, Nagasaki University, Nagasaki, Japan
Leishmania major strain dependent requirement of lymphocytes for the pathogenesis
- 11:20 4S-4 **Shiroh Iwanaga**, Department of Environmental Parasitology, Tokyo Medical and Dental University, Tokyo, Japan
Female-specific gene regulation in malaria parasites by an AP2-family transcription factor.
- 11:45 4O/P-5(P-40) **Chatchadaporn Thamnurak**, DEPARTMENT OF BACTERIAL AND PARASITIC DISEASES UNITED STATES ARMY MEDICAL DIRECTORATE ARMED FORCES RESEARCH INSTITUTE OF MEDICAL SCIENCES (USAMD-AFRIMS)
Plasmodium falciparum clinical isolates carrying a novel mutation at *Plasmodium falciparum* chloroquine resistance transporter (PfCRT) exhibit a swollen digestive vacuole and bimodal dose-response curve
- 11:55 4O/P-6(P-47) **Osamu Kaneko**, Program for Nurturing Global Leaders in Tropical and Emerging Communicable Diseases, Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, Japan
Characterization of a novel *Plasmodium yoelii* serine threonine kinase related to exflagellation center formation
- 12:05 4S-7 **Hisashi Arase**, Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, Japan
LILR family receptors in host-pathogen interaction

12:30-13:30 *Lunch*

September 13 (Fri)

9:00-11:20 Symposium 6: Host-pathogen Interaction (3)

Chair: **Takeshi Kobayashi**, Osaka University
Kazuhiko Maeda, Osaka University

- 9:00 6S-1 **Alexander Ploss**, Department of Molecular Biology, Princeton University, Princeton, NJ, United States
Novel insights into the intricate interplay of human hepatitis viruses with their cellular environment
- 9:30 6O/P-2(P-69) **Takayuki Matsumura**, Department of Immunology, National Institute of Infectious Diseases, Tokyo, Japan
The TLR2/IL-6/Mincle axis in IFN- γ -producing immature myeloid cells is essential to protect against severe invasive *Streptococcus* infection
- 9:40 6S-3 **Florent Ginhoux**, Singapore Immunology Network (SIgN), A*STAR
Macrophage and Dendritic Cell Biology: From Development to Functions
- 10:10 6O/P-4(P-21) **Hui-Wen Chen**, Department of Veterinary Medicine, National Taiwan University, Taipei, Taiwan
A virus-mimetic nanoparticle vaccine for Zika virus
- 10:20 6S-5 **Toru Okamoto**, Institute for Advanced Co-Creation Studies, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan
Signal peptide peptidase regulates propagation and pathogenicity of HCV
- 10:45 6O/P-6(P-10) **Chikako Ono**, Department of Molecular Virology, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan
Involvement of various miRNAs for an efficient replication of HCV
- 10:55 6S-7 **Jun-ichirou Yasunaga**, Lab of Virus Control, INFRONT, Kyoto Univ.
Molecular mechanisms for persistent infection and oncogenesis by human T-cell leukemia virus type 1

11:20 Closing Remarks