

The 5th Awaji Forum
Scientific program

September 5, Monday

9:00 - 11:45 **Training course 1-2**

Shizuo Akira, Osaka, Japan

"Pathogen Recognition by Innate Immunity"

Masao Mitsuyama, Kyoto, Japan

"Basic study using intracellular parasitic bacteria - Its significance in the link between bacteriology and immunology"

11:45 - 13:00 **Lunch**

13:00 - 17:15 **Training course 3-5**

Yoshiharu Matsuura, Osaka, Japan

"Biological significance of nuclear localization of Flavivirus core protein"

Tomoyoshi Nozaki

"Molecular Parasitology in the Post-Genome Era"

Shigeo Koyasu

"Role of dendritic cells in infectious immunity"

17:45 **Opening Remarks: Yasuhiko Horiguchi**, Osaka, Japan

18:00 - 19:30 **Symposium**

Parasitic Infections 1 (Discussion leader: **T. Horii**, Osaka, Japan)

Toshihiro Horii, Osaka, Japan

"Clinical development of the SE36 malaria vaccine targeting the Achilles heel antigen of *Plasmodium falciparum*"

Takafumi Tsuboi, Ehime, Japan

"Wheat germ cell-free protein synthesis system: An application for the genome-wide screening of novel malaria transmission-blocking vaccine candidates"

Blaise Genton, Lausanne, Switzerland

"Malaria Vaccines: from the laboratory to the field"

19:45 - **Welcome Reception**

September 6, Tuesday

9:00 - 10:00 **Symposium**

Parasitic Infections 2 (Discussion leader: **Y. Morita**, Osaka, Japan)

Jeremy C. Mottram, Glasgow, UK

"Cysteine peptidases, lysosomal function and autophagy in *Leishmania*"

L. David Sibley, St. Louis, USA

"Mechanisms of virulence and host defense in Toxoplasmosis"

10:00 - 10:15 **Coffee break**

10:15 - 11:45 **Symposium**

Viral Infections 1 (Discussion Leader: **Y. Kawaguchi**, Tokyo, Japan)

Junichi Sakuragi, Osaka, Japan

"Genome dimerization of HIV-1 and its roles for viral replication. "

Kenzo Takada, Sapporo, Japan

"Role of Epstein-Barr virus-encoded RNA (EBER) in oncogenesis"

Jianxin You, Boston, USA

"Papillomavirus host cell interactions contributing to persistence and cancer"

11:45 - 13:00 **Lunch**

13:00 - 15:00 **Poster session 1** (Discussion for odd-numbered posters)

15:15 - 16:15 **Symposium**

Viral Infections 2 (Discussion leader: **Y. Matsuura**, Osaka, Japan)

Kunitada Shimotohno, Kyoto, Japan

"Inhibition of HCV genome replication by cyclosporine A through the impairment of cyclophilin B function"

Martin Schwemmle, Freiburg, Germany

"Borna disease viruses encoding a phosphoprotein without an intact amphotericin/HMG-B1 interaction site exhibits an unexpected phenotype"

16:15 - 17:45 **Symposium**

Host defense and Immunity 1 (Discussion leader: **H. Kikutani**, Osaka, Japan)

Yong-Jun Liu, Houston, USA

"PDC/IPC in anti-viral innate and adaptive immune responses"

Wayne Yokoyama, St. Louis, USA

"Natural killer cell control of viral infection"

Osamu Takeuchi, Osaka, Japan

"Recognition of viral infection via TLR-dependent and -independent mechanisms"

17:45 - 19:15 **Dinner**

19:15 - 20:15 **Oral Poster 1**

Bacterial Infections (Discussion Leader, **M. Miyake**, Osaka, Japan)

Akiko Uehara, Sendai, Japan

"Up-regulation of peptidoglycan recognition proteins and β -defensin 2 by synthetic bacterial components via respective Toll-like receptors and NOD proteins in human oral epithelial cells"

Masato Suzuki, Tokyo, Japan

"CagA interaction with Crk requires for *Helicobacter pylori*-induced loss of cell adhesion and scattering"

Kazuhisa Ouhara, Hiroshima, Japan

"*Staphylococcus aureus* fibronectin-binding protein is a major inducer of the expression of the Antimicrobial peptides in human keratinocyte"

Cantarelli Vlademir, Osaka, Japan

"SI-RNA-mediated knockdown of cortactin or expression of various domains within the C-terminal region of cortactin affects pedestal formation by EPEC or EHEC"

20:15 - 21:15 **Oral Poster 2**

Host defense and Immunity (Discussion Leader, **A. Kumanogoh**, Osaka, Japan)

Hiroki Yoshida, Saga, Japan

"STAT3 is responsible for IL-27/WSX-1-mediated suppression of cytokine production by activated T cells"

Noriko Takegahara, Osaka, Japan

"Plexin-A1 associates with Trem-2/DAP12 receptor complex and mediates the activities of Sema6D on DCs"

Masaji Okada, Osaka, Japan

"Development of vaccines against SARS corona virus infection using mouse and SCID-PBL/hu mouse models"

Jun Kunisawa, Tokyo, Japan

"Roles of cytoplasmic chaperones in MHC class I presentation for vaccine design and microbial immunity"

September 7, Wednesday

9:00 - 10:30 **Symposium**

Autophagy 1 (Discussion leader: **T. Yoshimori**, Mishima, Japan)

Tamotsu Yoshimori, Mishima, Japan

"Autophagy unveiled: Its molecular basis and role in diseases"

Christian Munz, New York, USA

"Endogenous MHC class II antigen processing after autophagy"

Vojo Deretic, Albuquerque, USA

"Autophagy as an immune effector and control of *Mycobacterium tuberculosis*"

10:30 - 10:45 **Coffee break**

10:45 - 11:45 **Symposium**

Autophagy 2 (Discussion leader: **V. Deretic**, Albuquerque, USA)

Ichiro Nakagawa, Osaka, Japan

"Intracellularly invaded *Streptococcus pyogenes* is degraded by autophagic machinery"

Michinaga Ogawa, Tokyo, Japan

"Escape of intracellular *Shigella* from autophagy"

11:45 - 13:00 **Lunch**

13:00 - 15:00 **Poster session 2 (Discussion for even-numbered posters)**

15:15 - 16:45 **Symposium**

Host defense and Immunity 2 (Discussion leader: **K. Miyake**, Tokyo, Japan)

Takashi Fujita, Tokyo, Japan

"Induction of IFN gene expression by virus infection: Shared and unique functions of the DExD/H-Box helicases RIG-I, MDA5 and LGP2"

Akinori Takaoka, Tokyo, Japan

"Critical role of interferon regulatory factors (IRFs) in Toll-like receptor signalling"

Trude H. Flo, Trondheim, Norway

"The role of lipocalin 2 in host defense"

16:45 - 17:00 **Coffee break**

17:00 - 18:00 **Oral Poster 3**

Parasitic Infections (Discussion Leader, **T. Mitamura**, Osaka, Japan)

Lijun Tang, Fukuoka, Japan

"Induction of protective immunity against *Trypanosoma cruzi* by DNA vaccine with a chimeric gene encoding a cytotoxic T lymphocyte epitope of trypomastigote and green fluorescent protein"

Kanako Komaki-Yasuda, Tokyo Japan

"Analysis of mechanisms for transcriptional regulation of peroxiredoxin genes in human malaria parasite, *Plasmodium falciparum*"

Tomoko Ishino, Mie, Japan

"Two proteins with 6-cys motifs are required for malarial parasites to commit to infection of the hepatocyte"

Kumiko Nakada-Tsukui, Gunma, Japan

"A retromer-like complex is a novel Rab7 effector that is involved in the transport of the virulence factor cysteine protease in the enteric protozoan parasite *Entamoeba histolytica*"

18:00 - 19:00 **Oral Poster 4**

Viral Infections (Discussion Leader, **K. Moriishi**, Osaka, Japan)

Fumihito Taguchi, Tokyo, Japan

"Protease-Mediated Enhancement of SARS Coronavirus Infection"

Taro Kawai, Osaka, Japan

"IPS-1: a novel adaptor that is involved in RIG-I- and Mda-5-dependent type I interferon induction and anti-viral immune response"

Hiroki Sato, Tokyo, Japan

"The N protein of measles virus inhibits translation via interaction with eIF3-p40. "

Teruhito Yasui, Osaka, Japan

"The modification of the B cell development by Epstein-Barr virus Latent membrane protein 1"

19:30 -

Banquet

September 8, Thursday

9:00 - 10:00 **Symposium**

Bacterial Infections 1 (Discussion leader: **P. Sebo**, Prague, Czech Republic)

Mary O'Riordan, Ann Arbor, USA

"Role of TBK1 in innate immunity to intracellular bacterial pathogens"

Thomas Borén, Umeå, Sweden

"*Helicobacter pylori*; adherence and vaccine"

10:00 - 10:15 **Coffee break**

10:15 - 11:45 **Symposium**

Bacterial Infections 2 (Discussion leader: **T. Iida**, Osaka, Japan)

Peter Sebo, Prague, Czech Republic

"Dissecting the capacity of *Bordetella* adenylate cyclase to penetrate cellular membrane, form membrane channels and paralyze host phagocytes"

Michael Gilmore, Boston, USA

"Sensing mechanism for target cells by *Enterococcus faecalis*"

Andrew Camilli, Boston, USA

"The second messenger cyclic diguanylate helps mediate the switch from environmental to virulence gene expression in *Vibrio cholerae*"

11:45 - **Closing Remarks: Hiroshi Kiyono**, Tokyo, Japan