

# Program

September 7 (Tuesday)

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- 7:30 - 9:10 *Free Breakfast for Participants*
- 9:10 - 10:10 **Training Course 1: Immunology**  
**Taishin Akiyama**, University of Tokyo, Japan
- 10:10 - 10:20 *Coffee Break*
- 10:20 - 11:20 **Training Course 2: Bacteriology**  
**Tomoko Yamamoto**, Chiba University, Japan
- 11:20 - 11:30 *Coffee Break*
- 11:30 - 12:30 **Training Course 3: Virology**  
**Makoto Takeda**, National Institute of Infectious Diseases, Japan
- 12:30 - 13:30 *Free Lunch for Training Course Attendees*
- 13:30 - 14:30 **Training Course 4: Parasitology**  
**Hajime Hisaeda**, Gunma University, Japan
- 15:30 **Opening Remarks**  
**Tetsuro Matano**, University of Tokyo, Japan
- 15:45 - 17:30 **Session 1: Immunology (1)**  
Chair: **Andrea J. Sant**, University of Rochester, USA
- 15:45 S1-1 **Shizuo Akira**, Osaka University, Japan  
Functional analysis of LPS-inducible genes, *zc3h12a* and *JMJD3* by gene targeting
- 16:15 S1-2 (P-079) **Keishi Adachi**, Nagasaki University, Japan  
TCR ligation induces distinct signaling pathways in naive versus antigen-experienced human T cells
- 16:30 S1-3 **Paul M. Allen**, Washington University School of Medicine, USA  
Development of CD4<sup>+</sup> helper T cells and their role in protective immunity to *Listeria monocytogenes* infections
- 17:00 S1-4 **Takashi Saito**, RIKEN, Japan  
Direct regulation of T cell activation by TLR ligands
- 18:30 - 20:30 **Welcome Party**

September 8 (Wednesday)

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- 7:30 - 9:00 *Free Breakfast for Participants*
- 9:00 - 9:50 **Keynote Lecture 1**  
Chair: **Chihiro Sasakawa**, The University of Tokyo, Japan
- Thomas F. Meyer**, Max Planck Institute, Germany  
A global approach to assess molecular interactions of *Helicobacter pylori* with its host

9:50 - 10:10 *Coffee Break*

10:10 - 12:10 **Session 2: Bacteriology**

Chairs: **Ben Adler**, Monash University, Australia  
**Hitomi Mimuro**, The University of Tokyo, Japan

- 10:10 S2-1 **Takaaki Akaike**, Kumamoto University, Japan  
Cell Signaling for Antimicrobial Host Defense Mediated by Nitrated Cyclic Nucleotide
- 10:40 S2-2 **Ben Adler**, Monash University, Australia  
How surface components of *Pasteurella multocida* affect virulence: a tale of two polysaccharides.
- 11:10 S2-3 (P-091) **Yo Sugawara**, Osaka University, Japan  
Botulinum hemagglutinin targets E-cadherin to disrupt the intercellular epithelial barrier
- 11:25 S2-4 (P-107) **Joon Haeng Rhee**, Chonnam National University Medical School, South Korea  
A Bacterial RTX Toxin Causes Programmed Necrotic Cell Death through VDAC-Mediated Mitochondrial Dysfunction.
- 11:40 S2-5 **Kazuhisa Sekimizu**, The University of Tokyo, Japan  
Use of Silkworms for Evaluating Bacterial Pathogenicity and the Therapeutic Effects of Antibiotics

12:10 - 13:30 *Lunch Break (own)*

13:30 - 15:00 **Poster Session 1 (odd numbers)**

15:00 - 15:10 *Coffee Break*

15:10 - 18:45 **Session 3: Host-Pathogen Interaction (1)**

Chairs: **Helen Quill**, National Institute of Health, USA  
**Yasushi Kawaguchi**, The University of Tokyo, Japan

- 15:10 S3-1 **Kiyoshi Kita**, The University of Tokyo, Japan  
Novel enzymes of parasite mitochondria essential for their survival
- 15:40 S3-2 (P-060) **Yutaka Handa**, London Research Institute, UK  
The role of the small GTPases RhoD and RhoA during vaccinia virus infection
- 15:55 S3-3 **Gregory A. Smith**, Northwestern University, USA  
Dynein recruitment, axon transport and neural dissemination of an alpha-herpesvirus
- 16:25 S4-2\* **Hualan Chen**, Harbin Veterinary Research Institute, CAAS, China  
Genetic Basis for the Transmission of H5N1 Avian Influenza Viruses in a Mammalian Host

16:55 - 17:15 *Coffee Break*

- 17:15 S3-5 (P-018) **Hiroataka Imai**, The University of Tokyo, Japan  
The HA and NS Genes of Human H5N1 Influenza A Virus Contribute to its High Virulence in Ferrets
- 17:30 S3-6 **Andrea J. Sant**, University of Rochester, USA  
Encounter with seasonal vaccines and viruses primes memory CD4 T cells capable of recognizing the pandemic H1N1 influenza virus
- 18:00 S3-7 **Akio Abe**, Kitasato University, Japan  
*Bordetella* immune evasion by type III effectors
- 18:30 S3-8 (P-086) **Takeshi Noda**, Osaka University, Japan  
Differential Molecular Mechanisms between *Salmonella* Autophagy and Starvation-induced Macroautophagy

\*S4-2 switched with S3-4 due to the schedule change of the speaker.

## September 9 (Thursday)

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

9:00 - 9:50 **Keynote Lecture 2**

Chair: **Hiroshi Kiyono**, The University of Tokyo, Japan

**Bruce Beutler**, Scripps Research Institute, USA  
Genetics, Questions, and Answers in Immunology

9:50 - 10:10 *Coffee Break*

10:10 - 12:10 **Session 4: Virology**

Chairs: **Gregory A. Smith**, Northwestern University, USA  
**Yasuko Tsunetsugu-Yokota**, NIID, Japan

10:10 S4-1 **Tsuneo Morishima**, Okayama University, Japan

Impact of Pandemic Influenza A (H1N1) among Children

10:40 S3-4\* **Keizo Tomonaga**, Osaka University, Japan

An intranuclear life cycle of bornavirus reveals novel interactions between RNA virus and host

11:10 S4-3 **Robert W. Doms**, University of Pennsylvania, USA

Using zinc-finger nucleases to inactivate HIV-1 coreceptors in vitro and in vivo

11:40 S4-4 **Tatsuo Shioda**, Osaka University, Japan

Retrovirus restriction factor TRIM5  $\alpha$

12:10 - 13:30 *Lunch Break (own)*

13:30 - 15:00 **Poster Session 2 (even numbers)**

15:00 - 15:10 *Coffee Break*

15:10 - 18:30 **Session 5: Host-Pathogen Interaction (2)**

Chairs: **Nancy L. Haigwood**, Oregon Science & Health University, USA  
**Ai Kawana-Tachikawa**, The University of Tokyo, Japan

15:10 S5-1 **E. John Wherry**, Wistar Institute, USA

Regulating Memory T Cell Differentiation and Function during Chronic Viral Infection

15:40 S5-2 **Yasuko Tsunetsugu-Yokota**, National Institute of Infectious Diseases, Japan

The impact of chemokine receptor usage of HIV-1 in the pathogenesis of HIV infection

16:10 S5-3 **Guido Silvestri**, Emory University and Yerkes National Primate Research Center, USA

Immune activation and target cell restriction in HIV pathogenesis.

16:40 S5-4 (P-023) **Taisuke Izumi**, Kyoto University, Japan

Model structure of APOBEC3G N-terminal region reveals a binding pocket modulating HIV-1 Vif interaction and RNA required for encapsidation

16:55- 17:15 *Coffee Break*

17:15 S5-5 **Klaus Früh**, Oregon Health & Science University, USA

Induction and evasion of innate and adaptive immune responses by cytomegalovirus

17:45 S5-6 (P-077) **Koji Hase**, RIKEN, Japan

The epithelia-specific membrane trafficking factor AP-1B secures gut immune homeostasis

18:00 S5-7 **Hiroshi Kiyono**, The University of Tokyo, Japan

Mucosal chaperoning nanogel vaccine for the induction of protective immunity

19:00 - 21:00 **BBQ Party**

## September 10 (Friday)

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

### 9:00 - 11:35 **Session 6: Parasitology**

Chairs: **Kirk W. Deitsch**, Weill Cornell Medical College, USA  
**Tomoyoshi Nozaki**, NIID, Japan

9:00 S6-1 (P-003) **Shiroh Iwanaga**, Mie University, Japan  
Transcription factor AP2-Sp and its target genes in malarial sporozoites

9:15 S6-2 **Kazuyuki Tanabe**, Osaka University, Japan  
Intimate association of evolutionary history of the human malaria parasite, *Plasmodium falciparum*, with ancient demography of modern humans

9:45 S6-3 **Ze-Guang Han**, Chinese National Human Genome Center, China  
Systems Biological Analysis of *Schistosoma japonicum*

10:15 - 10:35 *Coffee Break*

10:35 S6-4 **Kirk W. Deitsch**, Weill Cornell Medical College, USA  
Antigenic variation by malaria parasites: mechanisms of transcriptional and translation gene silencing in *Plasmodium falciparum*

11:05 S6-5 (P-004) **Masahiro Yamamoto**, Osaka University, Japan  
A Toxoplasma kinase ROP18 is required for acute toxoplasmosis

11:20 S6-6 (P-013) **Kazuyo Moro**, Keio University, Japan  
The role of natural helper cell in helminth infection.

11:35 - 13:00 *Lunch Break (own)*

### 13:00 - 14:45 **Session 7: Immunology (2)**

Chair: **Hisashi Arase**, Osaka University, Japan

13:00 S7-1 **Toshinori Nakayama**, Chiba University, Japan  
CD4 T cell memory controlled by Polycomb and Trithorax molecules

13:30 S7-2 **John T. Harty**, University of Iowa, USA  
Antigen Re-encounter Modulates Differentiation and Protection by Memory CD8 T cells

14:00 S7-3 (P-082) **Satoshi Uematsu**, Osaka University, Japan  
Antigen-specific cytokine profiles and phenotypes in small intestinal Th17 cells

14:15 S7-4 **Hajime Karasuyama**, Tokyo Medical and Dental University, Japan  
Non-redundant role for basophils in antibody-mediated, acquired immunity against ticks

### 14:45 **Closing Remarks**

**Yoshiharu Matsuura**, Osaka University, Japan