

Symposia

Symposium 1 (Room A) 9:00–11:30, December 2, (Wed)

S1. Immune Cell Trafficking

Chairpersons: Toshiyuki Tanaka (Hyogo University of Health Sciences)
Makoto Iwata (Tokushima Bunri University)

- | | | |
|------------|---------------|---|
| S1-1 | 9:00 – 9:25 | Masayuki Miyasaka (Osaka University)
How do immune cells cross the endothelial barrier? |
| S1-2 | 9:25 – 9:45 | Aya Yokota (Tokushima Bunri University and JST, CREST)
Regulation of lymphocyte homing and differentiation by retinoic acid-producing dendritic cells in the intestine |
| S1-3 | 9:45 – 10:15 | William Agace (Lund University)
Intestinal dendritic cell subsets in mucosal adaptive immune responses |
| S1-4 | 10:15 – 10:35 | Takako Hirata (Kyoto University)
Dual roles of the sialomucin-type adhesion molecules in immune responses |
| S1-5 | 10:35 – 11:00 | Silke Paust (Harvard Medical School)
Critical role for CXCR6 in natural killer cell mediated adaptive immunity |
| S1-6 | 11:00 – 11:20 | Satoshi Ueha (The University of Tokyo)
Dynamic regulation of tumor-infiltrating myeloid-cells by chemokines |
| S1-7 (LBT) | 11:20 – 11:30 | Koji Tokoyoda (Chiba University and Deutsches Rheuma-Forschungszentrum)
Professional memory CD4 T lymphocytes reside and rest in bone marrow |

Symposium 2 (Room B) 9:00–11:30, December 2, (Wed)

S2. Host Pathogen Interactions

Chairpersons: Hisashi Arase (Osaka University)
Ken Ishii (Osaka University)

- | | | |
|------------|---------------|--|
| S2-1 | 9:00 – 9:25 | Hisashi Arase (Osaka University)
Regulation herpesvirus infection by paired receptors |
| S2-2 | 9:25 – 9:55 | David M. Underhill (Cedars-Sinai Medical Center/UCLA)
A Dectin-1 “Phagocytic Synapse” facilitates macrophage depth perception |
| S2-3 | 9:55 – 10:20 | Chihiro Sasakawa (The University of Tokyo)
Shigella as a versatile intestinal intruder |
| S2-4 | 10:20 – 10:45 | Ken Ishii (Osaka University)
Plasmacytoid dendritic cells prime influenza vaccine immunogenicity |
| S2-5 | 10:45 – 11:15 | Anne Krug (Technical University Munich)
Extracellular and intracellular pattern recognition receptors cooperate in the recognition of helicobacter pylori |
| S2-6 (LBT) | 11:15 – 11:30 | Masahiro Yamamoto (Osaka University)
A single polymorphic amino acid on <i>Toxoplasma gondii</i> kinase ROP16 determines the direct and strain-specific activation of Stat3 |

Symposium 3 (Room C) 9:00–11:30, December 2, (Wed)

S3. Autoimmune Diseases

Chairpersons: Norihiro Nishimoto (Wakayama Medical University)
Masayuki Amagai (Keio University)

- | | | |
|------------|---------------|---|
| S3-1 | 9:00 – 9:30 | Mark Anderson (University of California-San Francisco)
Peripheral aire and immune tolerance |
| S3-2 | 9:30 – 9:50 | Mitsuru Matsumoto (The University of Tokushima)
Aire-dependent organization of thymic microenvironment |
| S3-3 | 9:50 – 10:10 | Masayuki Amagai (Keio University)
Humoral and cellular autoimmune responses to desmoglein 3 in paraneoplastic pemphigus |
| S3-4 | 10:10 – 10:30 | Shumpei Yokota (Yokohama City University)
Juvenile idiopathic arthritis: from care to Cure - Clinical efficacy and biologic effects of IL-6-signal blocker, Tocilizumab |
| S3-5 | 10:30 – 11:00 | James N. Jarvis (University of Oklahoma)
Modelling complexity in chronic inflammatory diseases |
| S3-6 | 11:00 – 11:15 | Norihiro Nishimoto (Wakayama Medical University)
Aberrant cytokine networks and metabolisms in patients with systemic onset and polyarticular type juvenile idiopathic arthritis (sJIA and pJIA) |
| S3-7 (LBT) | 11:15 – 11:30 | Masashi Kanayama (Hokkaido University)
$\alpha 9$ integrin and its ligands constitute critical joint microenvironments for development of autoimmune arthritis |

Symposium 4 (Room D) 9:00–11:30, December 2, (Wed)

S4. TCR Repertoire Formation

Chairpersons: Yousuke Takahama (The University of Tokushima)
Hiroshi Kawamoto (RIKEN)

- | | | |
|------------|---------------|---|
| S4-1 | 9:00 – 9:25 | Hiroshi Kawamoto (RIKEN)
T cell lineage determination: termination of myeloid potential in T cell progenitors |
| S4-2 | 9:25 – 9:55 | Harald Von Boehmer (Harvard Medical School)
Stable T cell lineages require INtrathymic instruction by T cell receptors |
| S4-3 | 9:55 – 10:25 | Yu Wong (Stanford University)
A model of thymic selection in the mouse and characterization of the human alpha beta CD8+ T cell repertoire |
| S4-4 | 10:25 – 10:55 | Eric S. Huseby (University of Massachusetts Medical School)
The selective pressures on becoming a T cell |
| S4-5 | 10:55 – 11:20 | Yousuke Takahama (The University of Tokushima)
Thymus-specific self-peptide repertoire shapes immunocompetent repertoire of T cells |
| S4-6 (LBT) | 11:20 – 11:30 | Harumi Suzuki (International Medical Center of Japan)
Gasp (Themis) is a novel protein essential for positive selection but not for negative selection nor for peripheral activation |

Symposium 5 (Room A) 8:30–11:00, December 3, (Thu)

S5. Innate Immune Responses

Chairpersons: Shizuo Akira (Osaka University)
Takashi Fujita (Kyoto University)

- | | | |
|------|---------------|--|
| S5-1 | 8:30 – 8:55 | Koji Onomoto (Kyoto University)
Intracellular localization of RIG-I in virus infected cells. |
| S5-2 | 8:55 – 9:25 | Raul Andino (University of California-San Francisco)
Exogenous dsRNA uptake is required for effective systemic antiviral immunity in <i>Drosophila melanogaster</i> |
| S5-3 | 9:25 – 9:50 | Osamu Takeuchi (Osaka University)
Regulation of inflammatory responses by Toll-like receptor-inducible proteins. |
| S5-4 | 9:50 – 10:15 | Sho Yamasaki (Kyushu University)
Self and non-self recognition by C-type lectin receptor Mincle |
| S5-5 | 10:15 – 10:45 | Kevin J. Tracey (Feinstein Institute)
Reflex control of immunity |

Symposium 6 (Room B) 8:30–11:00, December 3, (Thu)

S6. Allergy

Chairpersons: Hajime Karasuyama (Tokyo Medical and Dental University)
Shinsuke Taki (Shinshu University)

- | | | |
|------------|---------------|--|
| S6-1 | 8:30 – 8:57 | Shinsuke Taki (Shinshu University)
The ITAM-Syk signaling pathway common for divergent IL-4-inducing basophil stimulants |
| S6-2 | 8:57 – 9:24 | Soichiro Yoshikawa (Tokyo Medical and Dental University)
Dynamics of basophil behavior in immune and allergic responses: <i>in vivo</i> imaging analysis using basophil-specific GFP mice |
| S6-3 | 9:24 – 9:51 | Christopher Karp (Cincinnati Children's Hospital Medical Center)
Allergenicity resulting from functional mimicry of a TLR complex protein |
| S6-4 | 9:51 – 10:18 | Jennifer Kearley (MedImmune)
Manipulating chitinases and cytokines in allergen-induced airway inflammation |
| S6-5 | 10:18 – 10:45 | Hamida Hammad (University of Ghent)
Dendritic cells in asthma: a role for TLRs and endogenous danger signals |
| S6-6 (LBT) | 10:45 – 11:00 | Tomohiro Yoshimoto (Hyogo College of Medicine)
Basophils contribute to T _H 2-IgE responses <i>in vivo</i> as antigen-presenting cells |

Symposium 7 (Room C) 8:30–11:00, December 3, (Thu)

S7. Imaging of Immune Responses

Chairpersons: Atsushi Kumanogoh (Osaka University)
Takaharu Okada (RIKEN)

- | | | |
|------|---------------|--|
| S7-1 | 8:30 – 8:50 | Tadashi Yokosuka (RIKEN)
Dynamic regulation of T-cell costimulation by TCR microclusters and the c-SMAC |
| S7-2 | 8:50 – 9:10 | Yoshihiro Baba (Osaka University and RIKEN)
Store-operated calcium entry in B cells |
| S7-3 | 9:10 – 9:37 | Mark J. Miller (Washington University)
Leukocyte dynamics during bacterial infection |
| S7-4 | 9:37 – 10:04 | Thorsten Mempel (Massachusetts General Hospital and Harvard Medical School)
T cell migratory dynamics during an anti-tumor immune response |
| S7-5 | 10:04 – 10:24 | Kenji Kabashima (Kyoto University)
Actin cytoskeleton formation through mDia1 is essential for DC-T cell interaction and T cell motility in the lymph nodes |
| S7-6 | 10:24 – 10:45 | Masaru Ishii (Osaka University)
Dynamic in vivo visualization of osteoclast precursor migration in living bones elucidating a novel regulatory point for 'osteimmunology' |

Symposium 8 (Room D) 8:30–11:00, December 3, (Thu)

S8. Immune Regulatory Cells

Chairpersons: Shohei Hori (RIKEN)
Toshiaki Ohteki (Tokyo Medical and Dental University)

- | | | |
|------|---------------|--|
| S8-1 | 8:30 – 8:50 | Shohei Hori (RIKEN)
Robustness and plasticity in regulatory T cell differentiation |
| S8-2 | 8:50 – 9:10 | Daniel Mucida (La Jolla Institute for Allergy and Immunology)
Yet another CD4 lineage switch: CD4CD8 $\alpha\alpha$ T cells |
| S8-3 | 9:10 – 9:35 | Chyi S. Hsieh (Washington University)
The role of TCR specificity and regulatory T cell development |
| S8-4 | 9:35 – 10:00 | Ethan Shevach (NIAID, NIH)
Role of Foxp3 ⁺ T regulatory cells in chronic infection |
| S8-5 | 10:00 – 10:20 | Katsuaki Sato (RIKEN)
Crucial roles of B7-H1 and B7-DC expressed on mesenteric dendritic cells in oral tolerance |
| S8-6 | 10:20 – 10:45 | Masaru Taniguchi (RIKEN)
Regulation of allergic responses by NKT cell-activated B220 ⁺ cells; a novel mechanism |

Symposium 9 (Room A) 9:00–11:30, December 4, (Fri)

S9. Mucosal Immunology

Chairpersons: Kenya Honda (Osaka University)
Jun Kunisawa (The University of Tokyo)

- | | | |
|------------|---------------|---|
| S9-1 | 9:00 – 9:25 | Kenya Honda (Osaka University and PREST, JST)
Immune regulation by intestinal microflora |
| S9-2 | 9:25 – 9:55 | Andreas Diefenbach (University of Freiburg)
IL-22-producing lymphoid tissue inducer-like cells promote intestinal epithelial homeostasis |
| S9-3 | 9:55 – 10:25 | David Artis (University of Pennsylvania)
Regulation of innate and adaptive immunity in the intestine |
| S9-4 | 10:25 – 10:50 | Jun Kunisawa (The University of Tokyo)
Lipids and vitamin for the immunological homeostasis in the gut |
| S9-5 | 10:50 – 11:15 | Sidonia Fagarasan (RIKEN)
Adaptive immune regulation in the gut: T cell-independent and T cell dependent IgA synthesis |
| S9-6 (LBT) | 11:15 – 11:30 | Koji Hase (RIKEN)
GP2-dependent antigen transcytosis by M cells initiates mucosal immune response |

Symposium 10 (Room B) 9:00–11:30, December 4, (Fri)

S10. Translational Research in Immunology

Chairpersons: Fumihiko Ishikawa (RIKEN)
Kiyoshi Takeda (Osaka University)

- | | | |
|-------------|---------------|--|
| S10-1 | 9:00 – 9:25 | Fumihiko Ishikawa (RIKEN)
Translational medicine using humanized mouse |
| S10-2 | 9:25 – 9:45 | Hiroyoshi Nishikawa (Mie University)
To establish the basis of tumor immunotherapy - Are we ready? - |
| S10-3 | 9:45 – 10:20 | Nagahiro Minato (Kyoto University)
Cancer immunotherapy targeting human $\gamma\delta$ T cells |
| S10-4 | 10:20 – 10:55 | Hideki Ueno (Baylor Institute for Immunology Research and INSERM U899)
Functional specialization of human myeloid DC subsets: Cellular and humoral immunity |
| S10-5 | 10:55 – 11:15 | Chie Kudo-Saito (Keio University)
Translational research for cancer therapy based on immunological analysis of the interaction between cancer EMT and host immunity |
| S10-6 (LBT) | 11:15 – 11:30 | Hiroyuki Kishi (University of Toyama)
A rapid and efficient single cell manipulation method for screening antigen-specific antibody-secreting cells from human peripheral blood |

Symposium 11 (Room C) 9:00–11:30, December 4, (Fri)

S11. New Aspects of Effector T cell Functions

Chairpersons: Masaaki Murakami (Osaka University)
Masakatsu Yamashita (Chiba University)

- | | | |
|------------|---------------|--|
| S11-1 | 9:00 – 9:20 | Koji Yasutomo (The University of Tokushima)
Notch-mediated T cell effector functions and memory T cells formation |
| S11-2 | 9:20 – 9:45 | Paula Oliver (University of Pennsylvania and Children's Hospital of Philadelphia)
Ubiquitin-mediated pathways that regulate T cell tolerance and effector function |
| S11-3 | 9:45 – 10:05 | Masakatsu Yamashita (Chiba University)
Regulation of GATA3-induced immune responses by the transcription factor Sox4 |
| S11-4 | 10:05 – 10:30 | Leo Lefrancois (University of Connecticut)
Making T cell memories: subsets and subtleties |
| S11-5 | 10:30 – 10:55 | Philippa Marrack (HHMI, National Jewish Health and University of Colorado Denver)
T cell receptors and MHC |
| S11-6 | 10:55 – 11:15 | Masaaki Murakami (Osaka University)
Is the recognition of cognate antigens always required for the determination of the tissue specificity of autoimmune diseases associated with MHC II? |
| S11-7(LBT) | 11:15 – 11:30 | Takashi Shichita (Keio University)
Pivotal role of cerebral interleukin-17-producing $\gamma\delta$ T cells in the delayed phase of ischemic brain injury |

Symposium 12 (Room D) 9:00–11:30, December 4, (Fri)

S12. B cell Biology

Chairpersons: Tomohiro Kurosaki (RIKEN)
Masamichi Muramatsu (Kanazawa University)

- | | | |
|-------|---------------|---|
| S12-1 | 9:00 – 9:20 | Yoshiteru Sasaki (RIKEN and Harvard Medical School)
Molecular mechanism for maintenance of mature B cells mediated by BCR and NF- κ B |
| S12-2 | 9:20 – 9:40 | Maki Kobayashi (Kyoto University)
Involvement of Topoisomerase I in class switch recombination |
| S12-3 | 9:40 – 10:05 | Andrea Cerutti (Weill Cornell Medical College)
Innate signaling networks in immunoglobulin class switching |
| S12-4 | 10:05 – 10:30 | David Tarlinton (Walter and Eliza Hall Institute of Medical Research)
B cell survival strategies in establishing and maintaining memory |
| S12-5 | 10:30 – 10:55 | Simon Fillatreau (Deutsches Rheuma-ForschungsZentrum)
Roles of MyD88-activated B cells in the suppression of immunity |
| S12-6 | 10:55 – 11:15 | Yuichi Aiba (RIKEN)
Preferential localization of IgG memory B cells adjacent to waned germinal centers |