

# Symposia

## Symposium 1 (Room A) 9:00-11:30, November 27, (Sun.)

### S1. Molecular mechanisms leashing pathogen sensors

Chairpersons: Kensuke Miyake (The University of Tokyo)  
Mitsutoshi Yoneyama (Chiba University)

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| S1-1 | 9:00 – 9:20   | Ryutaro Fukui (The University of Tokyo)<br>Unc93 homolog B1 restricts lethal homeostatic inflammation by controlling TLR7 and TLR9 responses |
| S1-2 | 9:20 – 9:50   | Greg Barton (University of California, Berkeley)<br>Self/non-self discrimination by Toll-like receptors                                      |
| S1-3 | 9:50 – 10:20  | Jon Kagan (Children's Hospital Boston/Harvard Medical School)<br>Cell biological aspects of innate immunity                                  |
| S1-4 | 10:20 – 10:45 | Taro Kawai (Osaka University)<br>Dissection of signaling pathways through innate receptors that sense foreign nucleic acids                  |
| S1-5 | 10:45 – 11:10 | Mitsutoshi Yoneyama (Chiba University)<br>Viral non-self RNA is detected by RIG-I-like receptors in cytoplasmic granules                     |
| S1-6 | 11:10 – 11:30 | Hiroyuki Oshiumi (Hokkaido University)<br>Regulation of the host viral RNA sensor RIG-I by the ubiquitin ligase riplet                       |

## Symposium 2 (Room B) 9:00-11:30, November 27, (Sun.)

### S2. B cell activation and memory

Chairpersons: Takeshi Tokuhisa (Chiba University)  
Ji-Yang Wang (RIKEN)

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| S2-1       | 9:00 – 9:25   | Ji-Yang Wang (RIKEN)<br>The Fc receptor for IgM (FcμR) positively regulates B cell survival and activation   |
| S2-2       | 9:25 – 9:45   | Elissa Deenick (Garvan Institute of Medical Research)<br>Understanding the signalling pathways that control B cell differentiation and protective humoral immunity |
| S2-3       | 9:45 – 10:05  | Justin J. Taylor (University of Minnesota)<br>Tracking the differentiation of polyclonal memory B cells  |
| S2-4       | 10:05 – 10:30 | Yoshimasa Takahashi (NIID)<br>Protective memory B cell responses to influenza virus infection  |
| S2-5       | 10:30 – 10:55 | Tomohiro Kurosaki (Osaka University)<br>Contribution of transcription factors to rapid responsiveness of IgG type memory B cells                                   |
| S2-6       | 10:55 – 11:20 | David Tarlinton (Walter and Eliza Hall Institute)<br>Signaling survival in plasma cells  |
| S2-7 (LBT) | 11:20 – 11:30 | Chigusa Nakahashi-Oda (University of Tsukuba)<br>An immunoreceptor adapter protein, DAP12, suppresses adaptive immune responses mediated by B lymphocytes          |

### **Symposium 3 (Room C) 9:00-11:30, November 27, (Sun.)**

#### **S3. Effector T cells**

Chairpersons: Akihiko Yoshimura (Keio University)  
Akemi Sakamoto (Chiba University)

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| S3-1       | 9:00 – 9:20   | Akemi Sakamoto (Chiba University)<br>A role of Bcl6 in effector T cell differentiation   |
| S3-2       | 9:20 – 9:45   | Yuka Kanno (NIH)<br>Landscape of histone epigenetic modification and roles of transcription factors in T helper specification  |
| S3-3       | 9:45 – 10:05  | Rimpei Morita (Keio University)<br>Human blood CXCR5+ CD4+ T cells are counterparts of T follicular cells  |
| S3-4       | 10:05 – 10:35 | Foo Liew (University of Glasgow)<br>Nitric oxide regulates T cell response   |
| S3-5       | 10:35 – 11:00 | Keiji Hirota (MRC National Institute for Medical Research)<br>Plasticity of interleukin 17-producing T cells in inflammatory responses   |
| S3-6 (LBT) | 11:00 – 11:15 | Takashi Tanaka (RIKEN)<br>PDLIM2 negatively regulates the development of TH17 cells and granulomatous inflammation by degradation of STAT3   |
| S3-7 (LBT) | 11:15 – 11:30 | Yoshiko Iwai (Tokyo Medical and Dental University)<br>BATF promotes effector CD8 T cell differentiation by regulating epigenetic remodeling and energy metabolism through Sirt1 expression |

### **Symposium 4 (Room D) 9:00-11:30, November 27, (Sun.)**

#### **S4. Chronic inflammation**

Chairpersons: Masayuki Miyasaka (Osaka University)  
Masaaki Murakami (Osaka University)

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|            | 9:00 – 9:05   | Masayuki Miyasaka (Osaka University)<br>Introduction  |
| S4-1       | 9:05 – 9:30   | Masaaki Murakami (JST-CREST and Osaka University)<br>The IL-6 amplifier activation, a key player of inflammation, in human diseases and disorders   |
| S4-2       | 9:30 – 9:55   | Victor J. Thannickal (University of Alabama at Birmingham)<br>Fibrosis: Connections to innate immunity?   |
| S4-3       | 9:55 – 10:20  | Kouji Matsushima (The University of Tokyo)<br>Delayed and aberrant immune reconstitution due to destruction of hematological and immunological niches in the acute and chronic phases of GVHD |
| S4-4       | Cancelled     | Deborah C. Rubin (Washington University School of Medicine)<br>Myofibroblast regulation of inflammation-induced colon carcinogenesis  |
| S4-5       | 10:20 – 10:45 | Shuh Narumiya (Kyoto University)<br>Prostaglandins in chronic inflammation  |
| S4-6       | 10:45 – 11:10 | Thomas A. Wynn (National Institute of Allergy and Infectious Diseases)<br>Innate and adaptive mechanisms of chronic inflammation and fibrosis   |
| S4-7 (LBT) | 11:10 – 11:30 | Yoichi Maekawa (University of Tokushima)<br>A mutation in the immunoproteasome subunit <i>PSMB8</i> causes autoinflammation and lipodystrophy in humans                                       |

**Symposium 5 (Room A) 8:30-11:00, November 28, (Mon.)**

**S5. Imaging of immune responses**

Chairpersons: Takashi Saito (RIKEN)  
Masaru Ishii (Osaka University)

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| S5-1 | 8:30 – 8:55   | Tadashi Yokosuka (RIKEN)<br>The PD-1 microclusters: negative costimulatory signalosomes directly targeting TCR downstream            |
| S5-2 | 8:55 – 9:20   | Morgan Huse (Memorial Sloan-Kettering Cancer Center)<br>Lymphocyte activation and protein kinase C                                   |
| S5-3 | 9:20 – 9:45   | Daniel Billadeau (Mayo Clinic)<br>Regulation of T cell activation by WASP family members   |
| S5-4 | 9:45 – 10:10  | Takaharu Okada (RIKEN)<br>Imaging of lymphocyte dynamics during the germinal center formation  |
| S5-5 | 10:10 – 10:35 | Philippe Bousso (Institut Pasteur)<br>Visualizing T cell sensing of TCR-pMHC affinity in vivo  |
| S5-6 | 10:35 – 11:00 | Masaru Ishii (Osaka University)<br>Imaging of bone-resorbing osteoclast function regulated by interactions with immune cells in situ |

**Symposium 6 (Room B) 8:30-11:00, November 28, (Mon.)**

**S6. Lymphocyte development**

Chairpersons: Ichiro Taniuchi (RIKEN)  
Takeshi Nitta (National Center for Global Health and Medicine)

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| S6-1 | 8:30 – 9:00   | Meinrad Busslinger (Research Institute of Molecular Pathology)<br>Elucidating the role of Pax5 in B cell development at the genome-wide level            |
| S6-2 | 9:00 – 9:25   | Takeshi Nitta (National Center for Global Health and Medicine)<br>Lympho-epithelial complexes in the thymic cortex                                       |
| S6-3 | 9:25 – 9:55   | Alfred Singer (National Cancer Institute, NIH)<br>Basis for CD8 lineage choice in the thymus   |
| S6-4 | 9:55 – 10:20  | Hiroshi Kawamoto (RIKEN)<br>Molecular mechanisms for production and maintenance of the T cell lineage  |
| S6-5 | 10:20 – 10:50 | Hilde Cheroutre (La Jolla Institute for Allergy & Immunology)<br>Activation-induced silencing of Thpok defines a new type of CD4 effector T lymphocytes. |

**Symposium 7 (Room C) 8:30-11:00, November 28, (Mon.)**

**S7. Immune regulatory cells**

Chairpersons: Shimon Sakaguchi (Osaka University)  
Masato Tanaka (RIKEN)

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| S7-1 | 8:30 – 8:57   | Masaki Terabe (National Cancer Institute, NIH)<br>Immunoregulatory roles of NKT cells in cancer  |
| S7-2 | 8:57 – 9:24   | Dmitry Gabrilovich (H. Lee Moffitt Cancer Center and Research Institute and University of South Florida)<br>Tumor-infiltrating myeloid cells induce tumor cell resistance to cytotoxic T cells |
| S7-3 | 9:24 – 9:51   | Masato Tanaka (Tokyo University of Pharmacy and Life Sciences and RIKEN)<br>The role of CD169 macrophages in anti-tumor immunity   |
| S7-4 | 9:51 – 10:18  | Kiyoshi Takeda (Osaka University)<br>Intestinal CX3CR1 <sup>high</sup> CD11b <sup>+</sup> CD11c <sup>+</sup> myeloid cells suppress T cell-dependent colitis                                   |
| S7-5 | 10:18 – 10:45 | Naganari Ohkura (Osaka University)<br>Epigenetic code for the development of regulatory T cells  |

**Symposium 8 (Room D) 8:30-11:00, November 28, (Mon.)**

**S8. Modulation of immune responses to human cancer**

Chairpersons: Yutaka Kawakami (Keio University)  
Shinichiro Motohashi (Chiba University)

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|      | 8:30 – 8:35   | Yutaka Kawakami (Keio University)<br>Introduction   |
| S8-1 | 8:35 – 9:05   | Thomas F. Gajewski (University of Chicago)<br>Identifying and overcoming immune barriers at the level of the tumor microenvironment   |
| S8-2 | 9:05 – 9:25   | Tomonori Yaguchi (Keio University)<br>Novel mouse models for analysis of <i>in vivo</i> interaction of immune system and human cancer |
| S8-3 | 9:25 – 9:55   | Laurence Zitvogel (INSERM U1015)<br>Should cell death be immunogenic for cancer therapy?  |
| S8-4 | 9:55 – 10:25  | Cassian Yee (Fred Hutchinson Cancer Research Center)<br>T cell therapy of cancer: State of the art                                    |
| S8-5 | 10:25 – 10:45 | Shinichiro Motohashi (Chiba University)<br>Immunotherapy using iNKT cells   |

## **Symposium 9 (Room A) 9:00-11:30, November 29, (Tue.)**

### **S9. T cell memory**

Chairpersons: Toshinori Nakayama (Chiba University)  
Shiki Takamura (Kinki University)

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| S9-1 | 9:00 – 9:25   | Shiki Takamura (Kinki University)<br>Mechanisms regulating the continual recruitment of memory CD8 <sup>+</sup> T cells to the lung airways |
| S9-2 | 9:25 – 9:50   | John E. Wherry (University of Pennsylvania)<br>Regulating memory T cell differentiation and function during chronic viral infection         |
| S9-3 | 9:50 – 10:15  | Federica Sallusto (Institute for Research in Biomedicine)<br>CD4 <sup>+</sup> T lymphocytes: Specificity, function, and trafficking         |
| S9-4 | 10:15 – 10:40 | Yusuke Endo (Chiba University)<br>Eomesodermin controls IL-5 production in memory Th2 cells through the inhibition of GATA3 activity        |
| S9-5 | 10:40 – 11:05 | Naoto Ishii (Tohoku University)<br>OX40 contributes to the generation and maintenance of memory CD4 <sup>+</sup> T cells                    |
| S9-6 | 11:05 – 11:30 | Shane Crotty (La Jolla Institute for Allergy and Immunology)<br>Differentiation and function of follicular helper CD4 T cells               |

## **Symposium 10 (Room B) 9:00-11:30, November 29, (Tue.)**

### **S10. Allergy**

Chairpersons: Hiroshi Nakajima (Chiba University)  
Yoshitaka Okamoto (Chiba University)

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| S10-1       | 9:00 – 9:35   | David Artis (University of Pennsylvania)<br>Regulation of innate and adaptive immunity at barrier surfaces  |
| S10-2       | 9:35 – 10:00  | Atsuhito Nakao (University of Yamanashi)<br>The circadian clock gene Period2 regulates a daily rhythm in cutaneous anaphylactic reaction.                             |
| S10-3       | 10:00 – 10:25 | Susumu Nakae (The University of Tokyo)<br>Role of IL-33 in allergy  |
| S10-4       | 10:25 – 10:50 | Satoko Tahara-Hanaoka (University of Tsukuba)<br>An immunoglobulin-like receptor, Allergin-1, inhibits immunoglobulin E-mediated immediate hypersensitivity reactions |
| S10-5       | 10:50 – 11:15 | Kenji Kabashima (Kyoto University)<br>Role of mast cell in the cutaneous immunity   |
| S10-6 (LBT) | 11:15 – 11:30 | Kazuya Masuda (Osaka University)<br>Aryl hydrocarbon receptor suppresses LPS-induced IL-6 production through inhibition of histamine production in macrophages        |

## **Symposium 11 (Room C) 9:00-11:30, November 29, (Tue.)**

### **S11. Autoimmunity and its regulation**

Chairpersons: Kazuhiko Yamamoto (The University of Tokyo)  
Takayuki Sumida (University of Tsukuba)

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| S11-1 | 9:00 – 9:30   | Takatoshi Chinen (Memorial Sloan-Kettering Cancer Center)<br>Effect of commensal microbiota on pro- and anti-inflammatory T cell responses                 |
| S11-2 | 9:30 – 10:00  | Shohei Hori (RIKEN)<br>Analysis of IPEX mutations reveals a critical role of the KLRG1 <sup>+</sup> subset of Treg cells in the regulation of autoimmunity |
| S11-3 | 10:00 – 10:30 | Jane H. Buckner (Benaroya Research Institute at Virginia Mason)<br>Common mechanisms of failed regulation in autoimmunity                                  |
| S11-4 | 10:30 – 11:00 | Harvey Cantor (Dana-Farber Cancer Institute)<br>Control of autoimmunity by CD8 <sup>+</sup> regulatory T cells   |
| S11-5 | 11:00 – 11:30 | Keishi Fujio (The University of Tokyo)<br>CD4 <sup>+</sup> CD25 <sup>+</sup> LAG3 <sup>+</sup> regulatory T cells and autoimmune disease                   |

## **Symposium 12 (Room D) 9:00-11:30, November 29, (Tue.)**

### **S12. Mucosal immunity**

Chairpersons: Hiroshi Ohno (RIKEN)  
Kenya Honda (The University of Tokyo)

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| S12-1 | 9:00 – 9:25   | Shinji Fukuda (RIKEN)<br>Acetate-producing bifidobacteria equipped with 'probiotic transporters' protects the host against enteropathogenic infection |
| S12-2 | 9:25 – 09:50  | Kenya Honda (The University of Tokyo)<br>Microbiotal influence on T cell subset development   |
| S12-3 | 9:50 – 10:20  | Ivaylo Ivanov (Columbia University Medical Center)<br>Immunomodulatory functions of segmented filamentous bacteria                                    |
| S12-4 | 10:20 – 10:45 | Reiko Shinkura (Nagahama Institute of Bioscience and Technology)<br>The critical role of somatic hypermutation in gut immune responses                |
| S12-5 | 10:45 – 11:15 | Siegfried Hapfelmeier (University of Berne)<br>Studying bacterial-induced immunity in germ-free animals   |