

Symposia

Symposium 1 (Room A) 9 : 00 ~ 11 : 30, December 11, (Wed.)

S1. Surface Barriology

Chairpersons: Masayuki AMAGAI (Keio University)
Koji HASE (The University of Tokyo)

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| S1-1 | 9 : 00 ~ 9 : 30 | Sidonia FAGARASAN (RIKEN-IMS)
Symbiotic regulatory loop between Foxp3 ⁺ T cells, IgA and gut microbiota |
| S1-2 | 9 : 30 ~ 10 : 00 | Daniel MUCIDA (The Rockefeller University)
THE ROLE OF T-BET IN IEL HOMEOSTASIS AND FUNCTION |
| S1-3 | 10 : 00 ~ 10 : 30 | Masayuki AMAGAI (Keio University/RIKEN-IMS)
Stratum corneum barrier dysfunction and atopic diseases |
| S1-4 | 10 : 30 ~ 11 : 00 | Rachael CLARK (Brigham and Women's Hospital and Harvard Medical School)
Human skin resident T cells in health and disease |
| S1-5 | 11 : 00 ~ 11 : 30 | Yasushi KAWAGUCHI (The University of Tokyo)
Two proteins kinases encoded by herpes simplex virus involve viral evasion of CTLs by different mechanisms |

Symposium 2 (Room B) 8 : 40 ~ 11 : 30, December 11, (Wed.)

S2. Spatiotemporal regulation of the immune system

Chairpersons: Noriko TOYAMA-Sorimachi (National Center for Global Health and Medicine)
Takaharu OKADA (RIKEN-IMS)

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| S2-1 | 8 : 40 ~ 9 : 05 | Masaru ISHII (Osaka University)
Immune cell trafficking controlled by sphingosine-1-phosphate |
| S2-2 | 9 : 05 ~ 9 : 35 | Ronald N. GERMAIN (NIAID, NIH)
Using Advanced Dynamic and Multiplex Static Imaging to Probe Innate and Adaptive Immunity In Vivo |
| S2-3 | 9 : 35 ~ 10 : 05 | Chang-Duk JUN (GIST)
IGSF4/CADM1 regulates T cell activation and homing |
| S2-4 | 10 : 05 ~ 10 : 35 | Chenqi XU (Chinese Academy of Sciences)
Regulation of T cell activation by acidic phospholipids |
| S2-5 | 10 : 35 ~ 11 : 05 | Ezra AKSOY (University of London)
Spatial-temporal regulation of innate immune signaling |
| S2-6 | 11 : 05 ~ 11 : 30 | Tatsuya SAITOH (Osaka University)
Visualization of innate immune response occurring in cellular microcompartments |

Symposium 3 (Room C) 9 : 00 ~ 11 : 30, December 11, (Wed.)

S3. Epigenetic regulation of the immune system [AAI-JSI joint session]

Chairpersons: Masakatsu YAMASHITA (Ehime University)
Ananda W. GOLDRATH (University of California San Diego)

- S3-1** **9 : 00 ~ 9 : 30** Ananda GOLDRATH (University of California San Diego)
Hypoxia-Inducible Factors enhance CD8⁺ T cell effector responses
- S3-2** **9 : 30 ~ 10 : 00** Hiroshi KAWAMOTO (Kyoto University)
Reprogramming of T cells as a novel method of cloning and expansion of antigen specific T cells
- S3-3** **10 : 00 ~ 10 : 30** Dan LITTMAN (New York University School of Medicine)
Heritable transcriptional regulation in T cell development
- S3-4** **10 : 30 ~ 11 : 00** Cornelis MURRE (University of California, San Diego)
The role of helix-loop-helix proteins in lymphocyte development
- S3-5** **11 : 00 ~ 11 : 30** Shimon SAKAGUCHI (Osaka University)
Distinct roles of epigenome changes and Foxp3 expression in regulatory T cell development and function

Symposium 4 (Room D) 9 : 00 ~ 11 : 30, December 11, (Wed.)

S4. Human immunology [SIgN-JSI joint session]

Chairpersons: Kazuhiko YAMAMOTO (The University of Tokyo)
Gennaro De LIBERO (Singapore Immunology Network (SIgN))

- S4-1** **9 : 00 ~ 9 : 30** Hergen SPITS (Academic Medical Center)
Plasticity of human ILC subsets
- S4-2** **9 : 30 ~ 10 : 00** Gennaro De LIBERO (Singapore Immunology Network)
Butyrophilin 3A1 binds phosphorylated antigens and stimulates human $\gamma\delta$ T cells
- S4-3** **10 : 00 ~ 10 : 30** Keishi FUJIO (The University of Tokyo)
The role of CD4⁺CD25⁻LAG3⁺ regulatory T cells in autoimmune diseases
- S4-4** **10 : 30 ~ 11 : 00** Olaf ROTZSCHKE (Singapore Immunology Network (SIgN), A*STAR)
Extracellular ATP and immune reactions: The role of SNP cluster in the regulation of CD39
- S4-5** **11 : 00 ~ 11 : 30** Thorsten R. MEMPEL (Massachusetts General Hospital Harvard Medical School)
Intravital microscopy in BLT humanized mice to study cellular dynamics in HIV infection

Symposium 5 (Room I) 9 : 00~11 : 30, December 11, (Wed.)

S5. Microenvironments for the immune system

Chairpersons: Takeshi NITTA (National Center for Global Health and Medicine)
Taishin AKIYAMA (The University of Tokyo)

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| S5-1 | 9 : 00 ~ 9 : 25 | Takeshi NITTA (National Center for Global Health and Medicine)
Cortical thymic epithelial cells control conventional and innate T cell development |
| S5-2 | 9 : 25 ~ 9 : 50 | Yoko HAMAZAKI (Kyoto University)
Medullary thymic epithelial stem cells ensuring lifelong central T-cell tolerance |
| S5-3 | 9 : 50 ~ 10 : 20 | Adrian LISTON (University of Leuven Autoimmune Genetics Laboratory/VIB)
Keeping the thymus together –the role of microRNA and epithelial structure in preventing thymic involution |
| S5-4 | 10 : 20 ~ 10 : 35 | Mie SAKATA (The University of Tokushima)
Development and developmental potential of $\beta 5t$ -expressing thymic epithelial cells |
| S5-5 | 10 : 35 ~ 11 : 00 | Tomoya KATAKAI (Kansai Medical University)
Environmental control of high-speed T cell migration in the lymph node |
| S5-6 | 11 : 00 ~ 11 : 30 | Theresa LU (Hospital for Special Surgery/Weill Cornell Medical College)
Regulating the vascular-stromal compartment in lymph nodes |

Symposium 6 (Room A) 9 : 00~11 : 30, December 12, (Thu.)

S6. Dendritic Cell and Macrophage Immunobiology

Chairpersons: Florent GINHOUX (Singapore Immunology Network (SIgN), A*STAR)
Tsuneyasu KAISHO (Osaka University/RIKEN-IMS)

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| S6-1 | 9 : 00 ~ 9 : 30 | Florent GINHOUX (Singapore Immunology Network (SIgN), A*STAR)
Dendritic Cells: Matching Mice and Men |
| S6-2 | 9 : 30 ~ 10 : 05 | Matthew COLLIN (Newcastle University)
Human in vivo models of dendritic cell and macrophage homeostasis |
| S6-3 | 10 : 05 ~ 10 : 30 | Tsuneyasu KAISHO (Osaka University/RIKEN-IMS)
In vivo roles of XCR1-expressing dendritic cells |
| S6-4 | 10 : 30 ~ 11 : 05 | Paola RICCIARDI-CASTAGNOLI (Singapore Immunology Network (SIgN), A*STAR)
Calcineurin/NFAT control of innate immunity |
| S6-5 | 11 : 05 ~ 11 : 30 | Takashi SATOH (Osaka University)
Physiological role and differentiation mechanism of M2 macrophages |

Symposium 7 (Room B) 9 : 00~11 : 30, December 12, (Thu.)

S7. Tumor immunology [CSI-JSI joint session]

Chairpersons: Yutaka KAWAKAMI (Keio University)
Bo HUANG (Chinese Academy of Medical Sciences)

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| S7-1 | 9 : 00 ~ 9 : 20 | Bo HUANG (Chinese Academy of Medical Sciences)
Microparticles: a road to antitumor immunity |
| S7-2 | 9 : 20 ~ 9 : 55 | Paul ROBBINS (National Institutes of Health, National Cancer Institute)
Use of High Throughput Sequencing Methods to Identify Cancer Immunotherapy Targets |
| S7-3 | 9 : 55 ~ 10 : 15 | Qingqing WANG (Zhejiang University School of Medicine)
Myeloid-derived suppressor cells in tumor immune escape |
| S7-4 | 10 : 15 ~ 10 : 35 | Masahisa JINUSHI (Hokkaido University)
Cancer-myeloid cell cross-talk is critical to regulate therapeutic responses to chemotherapy |
| S7-5 | 10 : 35 ~ 11 : 10 | Benoit J. VAN DEN EYNDE (Universite catholique de Louvain)
Blocking tryptophan catabolism to boost anti-tumor immune responses |
| S7-6 | 11 : 10 ~ 11 : 30 | Yutaka KAWAKAMI (Keio University)
Different tumor immunoenvironments among patients: Biomarkers and their modification for cancer treatments |

Symposium 8 (Room C) 9 : 00~11 : 30, December 12, (Thu.)

S8. Effector /regulatory and memory T cells [DGFI-JSI joint session]

Chairpersons: Andreas RADBRUCH (Deutsches German Rheumatism Research Centre (DRFZ) Berlin,
an institute of the Leibniz Association)
Shohei HORI (RIKEN-IMS)

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| S8-1 | 9 : 00 ~ 9 : 30 | Jochen HUEHN (Helmholtz Centre for Infection Research, Braunschweig)
Thymic and peripheral development of Foxp3 ⁺ regulatory T cells |
| S8-2 | 9 : 30 ~ 10 : 00 | Takaharu OKADA (RIKEN IMS-RCAI/PRESTO, JST)
The role of olfactory regulatory T cells in immune homeostasis |
| S8-3 | 10 : 00 ~ 10 : 30 | Juan J. LAFAILLE (New York University School of Medicine) |
| S8-4 | 10 : 30 ~ 11 : 00 | Kiyoshi HIRAHARA (Chiba University/NIH)
Bach2 represses effector programs to stabilize Treg-mediated immune homeostasis |
| S8-5 | 11 : 00 ~ 11 : 30 | Andreas RADBRUCH (Deutsches Rheuma-Forschungszentrum Berlin)
The emerging diversity of immunological memory |

Symposium 9 (Room D) 9 : 00 ~ 11 : 30, December 12, (Thu.)

S9. Innate lymphoid cells

Chairpersons: David ARTIS (University of Pennsylvania)
Shigeo KOYASU (RIKEN-IMS/Keio University)

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| S9-1 | 9 : 00 ~ 9 : 30 | David ARTIS (University of Pennsylvania)
Regulation of Barrier Immunity |
| S9-2 | 9 : 30 ~ 10 : 00 | Koubun YASUDA (Hyogo College of Medicine)
Role of IL-33 in innate type eosinophilic inflammation |
| S9-3 | 10 : 00 ~ 10 : 30 | Kazuyo MORO (RIKEN-IMS/PRESTO, JST / Yokohama City University)
Natural Helper cells -New player in innate immune system- |
| S9-4 | 10 : 30 ~ 11 : 00 | Susumu NAKAE (The University of Tokyo)
Role of mast cells in natural helper cell-mediated innate-type allergic inflammation |
| S9-5 | 11 : 00 ~ 11 : 30 | Brigitta STOCKINGER (MRC National Institute for Medical Research)
IL-9 - a central regulator of ILC2 responses during lung inflammation |

Symposium 10 (Room I) 9 : 00 ~ 11 : 30, December 12, (Thu.)

S10. Vaccine

Chairpersons: Jun KUNISAWA (NIBIO/The University of Tokyo)
Ken ISHII (NIBIO/Osaka University)

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| S10-1 | 9 : 00 ~ 9 : 30 | Ken ISHII (NIBIO/Osaka University)
Seeking biomarkers and mechanism of vaccine adjuvants; for more effective and safer vaccination |
| S10-2 | 9 : 30 ~ 10 : 00 | Nilabh SHASTRI (University of California, Berkeley)
Optimizing and targeting the editors of peptides loaded onto MHC class I molecules |
| S10-3 | 10 : 00 ~ 10 : 30 | Sho YAMASAKI (Kyushu University)
C-type lectin receptors for mycobacterial adjuvants |
| S10-4 | 10 : 30 ~ 11 : 00 | W. Nicholas HAINING (Dana-Farber Cancer Institute / Harvard Medical School)
Gene set-based predictors of response to vaccination |
| S10-5 | 11 : 00 ~ 11 : 30 | Jun KUNISAWA (NIBIO/The University of Tokyo)
Peyer's patch-mediated and microbe-dependent intestinal IgA responses for the development of oral vaccine |

Symposium 11 (Room A) 9 : 00~11 : 30, December 13, (Fri.)

S11. Molecular and cellular bases of chronic inflammation

Chairpersons: Kouji MATSUSHIMA (The University of Tokyo)
Masayuki MIYASAKA (Osaka University)

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| S11-1 | 9 : 00 ~ 9 : 30 | John Cijiang HE (Icahn School of Medicine at Mount Sinai)
Systems approach identifies HIPK2 as a critical regulator of kidney tubulointerstitial inflammation and fibrosis |
| S11-2 | 9 : 30 ~ 10 : 00 | Koji YASUTOMO (The University of Tokushima/JST, CREST)
Genetics of autoinflammatory syndrome |
| S11-3 | 10 : 00 ~ 10 : 30 | Osamu TAKEUCHI (Kyoto University)
Posttranscriptional regulation in chronic inflammation |
| S11-4 | 10 : 30 ~ 11 : 00 | Takayoshi SUGANAMI (Tokyo Medical and Dental University JST, PREST)
Role of adipose tissue inflammation in obesity |
| S11-5 | 11 : 00 ~ 11 : 30 | Lucie PEDUTO (Institut Pasteur)
Lineage tracing of ADAM12(+) perivascular cells reveals a dominant profibrotic pathway in acute injury |

Symposium 12 (Room B) 9 : 00~11 : 30, December 13, (Fri.)

S12. B cell memory

Chairpersons: Daisuke KITAMURA (Tokyo University of Science)
Tomohiro KUROSAKI (Osaka University/RIKEN-IMS)

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| S12-1 | 9 : 00 ~ 9 : 30 | Yoshimasa TAKAHASHI (National Institute of Infectious Diseases)
Development of cross-reactive memory B cell subsets to influenza virus infection |
| S12-2 | 9 : 30 ~ 10 : 00 | Claude-Agnes REYNAUD (INSERM U783, Faculte de Medecine Paris Descartes-Site Necker)
An AID-dependent memory response in unimmunized mice |
| S12-3 | 10 : 00 ~ 10 : 30 | Christopher D. C. ALLEN (University of California, San Francisco)
Characterization of IgE ⁺ B cells during primary and secondary immune responses |
| S12-4 | 10 : 30 ~ 11 : 00 | Jurgen WIENANDS (Georg August University of Gottingen)
Targeting cytosolic signal effectors to the antigen receptor on naïve and memory B cells |
| S12-5 | 11 : 00 ~ 11 : 30 | Daisuke KITAMURA (Tokyo University of Science)
Molecular requirements for memory B cell development |

Symposium 13 (Room C) 9 : 00~11 : 30, December 13, (Fri.)

S13. Innate immune sensor-mediated signaling [KAI-JSI joint session]

Chairpersons: Shizuo AKIRA (Osaka University)
Eun-Kyeong JO (Chungnam National University School of Medicine)

- S13-1** **9 : 00~ 9 : 30** Xuetao CAO (Chinese Academy of Medical Sciences)
Regulation of innate receptor signaling in antiviral immune response and inflammation
- S13-2** **9 : 30~10 : 00** Eun-Kyeong JO (Chungnam National University School of Medicine/Chungnam National University)
Small Heterodimer Partner and Innate Immune Signaling
- S13-3** **10 : 00~10 : 30** Carsten KIRSCHNING (University of Duisburg-Essen)
Specific bacterial products and host receptors trigger sepsis pathology
- S13-4** **10 : 30~11 : 00** Taro KAWAI (Nara Institute of Science and Technology (NAIST)/Osaka University)
Role of RIG-I-like receptor signaling for mounting antiviral immunity
- S13-5** **11 : 00~11 : 30** ZHIJIAN 'JAMES' CHEN (HHMI, Department of Molecular Biology, University of Texas Southwestern Medical Center)
The cGAS-cGAMP-STING Pathway of Cytosolic DNA Sensing

Symposium 14 (Room D) 9 : 00~11 : 30, December 13, (Fri.)

S14. Host-microbial interplay [SFI-JSI joint session]

Chairpersons: Hiroshi KIYONO (The University of Tokyo)
Gerard EBERL (Institut Pasteur)

- S14-1** **9 : 00~ 9 : 30** Kenya HONDA (RIKEN-IMS/JST, CREST)
Epithelial cell adhesion-mediated Th17 induction by segmented filamentous bacteria
- S14-2** **9 : 30~10 : 00** Andreas DIEFENBACH (University of Mainz Medical Centre)
Transcriptional and epigenetic programs controlling cell fate decisions of innate lymphoid cells
- S14-3** **10 : 00~10 : 30** James Di SANTO (Institut Pasteur)
IL-22-Producing Innate Lymphoid Cells: Mediators of Immune Defense and Regulators of Tissue Homeostasis
- S14-4** **10 : 30~11 : 00** Gerard EBERL (Institut Pasteur)
Regulation of ROR γ ⁺ lymphoid cells by microbiota
- S14-5** **11 : 00~11 : 30** Hiroshi KIYONO (The University of Tokyo)
Mucosal connections of commensal flora, epithelial cells and innate lymphoid cells for homeostatic and pathological inflammations

Symposium 15 (Room I) 9 : 00 ~ 11 : 30, December 13, (Fri.)

S15. Osteoimmunology

Chairpersons: Hiroshi TAKAYANAGI (The University of Tokyo)
Takashi NAGASAWA (Kyoto University)

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| S15-1 | 9 : 00 ~ 9 : 30 | Yongwon CHOI (University of Pennsylvania)
RANKL and osteoimmunology |
| S15-2 | 9 : 30 ~ 10 : 00 | Takeshi MIYAMOTO (Keio University)
Regulation of haematopoietic stem cells and progenitors by osteoclasts |
| S15-3 | 10 : 00 ~ 10 : 30 | Daniel J. CUA (Merck Research Laboratories, Palo Alto)
IL-23 induces spondyloarthritis by acting on ROR- γ t ⁺ CD3 ⁺ CD4 ⁻ CD8 ⁻ enthesal resident T cells |
| S15-4 | 10 : 30 ~ 11 : 00 | Takashi NAGASAWA (Kyoto University/JST, CREST)
The microenvironmental niches for hematopoietic stem and progenitor cells in bone marrow |
| S15-5 | 11 : 00 ~ 11 : 30 | Noriko KOMATSU (The University of Tokyo/JST ERATO Takayanagi Osteonetwork Project)
Cell communication in osteoimmunology |