

Symposia

Symposium 1 (Room A) 9 : 00~11 : 30, November 18, (Wed.)

S1. Host-microbe interaction

Chairpersons: Kenya HONDA (Keio University)
Akiko IWASAKI (Yale University School of Medicine)

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| S1-1 | 9 : 00~ 9 : 30 | Yumiko IMAI (Akita University)
Dynamic nuclear interactions between influenza virus and its host -potential of anti-influenza drug development- |
| S1-2 | 9 : 30~10 : 00 | Hajime KARASUYAMA (Tokyo Medical and Dental University)
Emerging roles of basophils in acquired protective immunity to parasitic infections |
| S1-3 | 10 : 00~10 : 30 | Kiyoshi TAKEDA (Osaka University)
The mechanism for segregation of intestinal bacteria and epithelia in the colon |
| S1-4 | 10 : 30~11 : 00 | Akiko IWASAKI (Yale University School of Medicine)
Innate immune defense against influenza virus infection |
| S1-5 | 11 : 00~11 : 30 | Ruslan MEDZHITOV (Yale University School of Medicine)
Inflammation, Homeostasis and Disease |

Symposium 2 (Room B) 9 : 00~11 : 30, November 18, (Wed.)

S2. Innate lymphoid cell

Chairpersons: Shin-ichiro SAWA (The University of Tokyo)
Kazuyo MORO (RIKEN-IMS/PRESTO/Yokohama City University)

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| S2-1 | 9 : 00~ 9 : 30 | Joseph C. SUN (Memorial Sloan Kettering Cancer Center)
Immunological memory in innate lymphocytes |
| S2-2 | 9 : 30~10 : 00 | Timotheus You Fu HALIM (Laboratory of Molecular Biology)
Group 2 innate lymphoid cells in the regulation of type-2 inflammation. |
| S2-3 | 10 : 00~10 : 30 | Kazuyo MORO (RIKEN-IMS/PRESTO/Yokohama City University)
Interferon and IL-27 antagonize ILC2 function and type 2 innate immune responses |
| S2-4 | 10 : 30~11 : 00 | Sidonia FAGARASAN (RIKEN-IMS)
Group II innate lymphoid cells (ILC2) and homeostasis of the large intestine |
| S2-5 | 11 : 00~11 : 30 | Naoko SATOH-TAKAYAMA (RIKEN-IMS)
Heterogeneity and unique function of ILC3s |

Symposium 3 (Room C) 9 : 00~11 : 30, November 18, (Wed.)

S3. Allergy: from bench to bedside and beyond

Chairpersons: Atsuhito NAKAO (Yamanashi University)
Hiroshi NAKAJIMA (Chiba University)

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| S3-1 | 9 : 00~ 9 : 30 | Makoto MURAKAMI (Tokyo Metropolitan Institute of Medical Science/CREST, AMED)
Immune regulation by the sPLA2-driven lipid pathways in allergy |
| S3-2 | 9 : 30~10 : 00 | Marc E. ROTHENBERG (Cincinnati Children's Hospital Medical Center)
Discovery and Elucidation of the New Food Allergy Disorder Eosinophilic Esophagitis |
| S3-3 | 10 : 00~10 : 30 | Fumio TAKEI (BC Cancer Agency/University of British Columbia)
Allergen-experienced lung ILC2s drive severe allergic lung inflammation |
| S3-4 | 10 : 30~11 : 00 | Kiyoshi HIRAHARA (Chiba University)
A crucial role of immunological memory in shaping the pathogenesis of chronic lung inflammation |
| S3-5 | 11 : 00~11 : 30 | Akiharu KUBO (Keio University)
Vicious Cycle in Atopic Dermatitis: Epidermal Barriers, Allergic Sensitization and Inflammation |

Symposium 4 (Room E) 9 : 00~11 : 30, November 18, (Wed.)

S4. T cell development and function

Chairpersons: Harumi SUZUKI (National Center for Global Health and Medicine)
Nicholas GASCOIGNE (National University of Singapore)

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| S4-1 | 9 : 00~ 9 : 30 | Harumi SUZUKI (National Center for Global Health and Medicine)
Differential roles of TCR-proximal signaling adaptors in T cell development |
| S4-2 | 9 : 30~10 : 00 | Nicholas GASCOIGNE (National University of Singapore)
Themis and the control of T cell signalling |
| S4-3 | 10 : 00~10 : 30 | Stephen JAMESON (University of Minnesota)
The impact of self peptide-MHC interactions on CD8+ T cell function |
| S4-4 | 10 : 30~11 : 00 | Masaki MIYAZAKI (Kyoto University)
Transcriptional regulation by the E-Id protein axis controls T cell development and activation. |
| S4-5 | 11 : 00~11 : 30 | Takeshi EGAWA (Washington University School of Medicine)
The regulation of durable adaptive immune response for protective immunity by transcription factors |

Symposium 5 (Room A) 8 : 30~11 : 00, November 19, (Thu.)

S5. Tolerance and immune regulation in tissues

Chairpersons: Shohei HORI (RIKEN-IMS)
Taku OKAZAKI (The University of Tokushima)

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| S5-1 | 8 : 30~ 9 : 00 | Eric HUSEBY (University of Massachusetts Medical School)
Structural insights into the development of autoreactive T cells |
| S5-2 | 9 : 00~ 9 : 30 | Taku OKAZAKI (The University of Tokushima)
Regulation of autoimmunity by PD-1 and LAG-3. |
| S5-3 | 9 : 30~10 : 00 | Daniel CAMPBELL (Benaroya Research Institute)
Control of CD8+ T cell responses by the signaling adaptor BCAP |
| S5-4 | 10 : 00~10 : 30 | Shohei HORI (RIKEN-IMS)
Foxp3-dependent control of Treg cell function and homeostasis in tissues |
| S5-5 | 10 : 30~11 : 00 | Masaaki MURAKAMI (Hokkaido University)
Pain sensation induces relapse via the gateway reflex in EAE, a MS model. |

Symposium 6 (Room B) 8 : 30~11 : 00, November 19, (Thu.)

S6. Immune sensors for self and non-self insults

Chairpersons: Sho YAMASAKI (Kyushu University)
Noriko TOYAMA-SORIMACHI (Research Institute National Center for Global Health and
Medicine)

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| S6-1 | 8 : 30~ 9 : 00 | Julian NAGLIK (King's College London)
Epithelial activation by a novel cytolytic peptide toxin of <i>Candida albicans</i> |
| S6-2 | 9 : 00~ 9 : 30 | Juergen RULAND (Technical University of Munich)
ITAM Receptor Signals in Inflammation |
| S6-3 | 9 : 30~10 : 00 | Alexandra CORBETT (University of Melbourne)
Mucosal Associated Invariant T cells respond <i>in vivo</i> to riboflavin-derived ligands and co-stimulatory signals, and contribute to pathology following chronic infection |
| S6-4 | 10 : 00~10 : 30 | Kensuke SHIBATA (Kyushu University)
Helper T cell-independent development of fatal autoimmune pancreatitis |
| S6-5 | 10 : 30~11 : 00 | Olivier LANTZ (INSERM, U932)
A surprising connection: invariant T cells, vitamins, bacteria and wild mice |

Symposium 7 (Room C) 8 : 30~11 : 00, November 19, (Thu.)

S7. Ontogeny and identity of mononuclear phagocytes

Chairpersons: Kang LIU (Columbia University Medical Center)
Toshiaki OHTEKI (Tokyo Medical and Dental University)

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| S7-1 | 8 : 30~ 9 : 00 | Markus FEUERER (German Cancer Research Center)
Monocytes and macrophages: origin and differentiation |
| S7-2 | 9 : 00~ 9 : 30 | Toshiaki OHTEKI (Tokyo Medical and Dental University)
Identification of mononuclear phagocyte progenitors |
| S7-3 | 9 : 30~10 : 00 | Kang LIU (Columbia University Medical Center)
Identification and characterization of sequential human dendritic cell progenitors |
| S7-4 | 10 : 00~10 : 30 | Yasutaka OKABE (Yale University School of Medicine)
Tissue macrophage identity |
| S7-5 | 10 : 30~11 : 00 | Takashi SATOH (Osaka University)
Study of physiological role and differentiation mechanism of various disorder-specific M2 macrophages |

Symposium 8 (Room E) 8 : 30~11 : 00, November 19, (Thu.)

S8. T and B cell immunity in humoral responses

Chairpersons: Masato KUBO (Tokyo University of Science/RIKEN-IMS)
Chen DONG (Tsinghua University)

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| S8-1 | 8 : 30~ 9 : 00 | Masato KUBO (Tokyo University of Science/RIKEN-IMS)
Humoral Immunity against Influenza virus infection |
| S8-2 | 9 : 00~ 9 : 30 | Chen DONG (Tsinghua University)
Transcriptional controls of humoral immunity |
| S8-3 | 9 : 30~10 : 00 | Mark SHLOMCHIK (University of Pittsburgh School of Medicine)
Signaling and Selection in Germinal Centers |
| S8-4 | 10 : 00~10 : 30 | Daisuke KITAMURA (Tokyo University of Science)
Regulatory mechanisms for memory B cell generation and function |
| S8-5 | 10 : 30~11 : 00 | Hai QI (Tsinghua University)
Dissecting development and function of follicular T-helper cells |

Symposium 9 (Room A) 8 : 30~11 : 00, November 20, (Fri.)

S9. Tumor immuno-microenvironments and their modulation

Chairpersons: Koji TAMADA (Yamaguchi University)
Yutaka KAWAKAMI (Keio University)

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| S9-1 | 8 : 30~ 9 : 10 | Vincenzo BRONTE (University of Verona)
The interplay between L-arginine metabolism and adoptive immunity in cancer |
| S9-2 | 9 : 10~ 9 : 33 | Hiroyoshi NISHIKAWA (National Cancer Center)
Regulatory T-cell suppression in tumors |
| S9-3 | 9 : 33~10 : 13 | Jerome GALON (INSERM, UMRS1138)
Immune contexture and Immunoscore in cancer |
| S9-4 | 10 : 13~10 : 36 | Kazuhiro KAKIMI (The University of Tokyo Hospital)
Tumor microenvironment regulates lytic and static effector activity of anti-tumor CTLs |
| S9-5 | 10 : 36~11 : 00 | Yutaka KAWAKAMI (Keio University)
Heterogeneous tumor immuno-environments and their modulation for effective cancer immunotherapy |

Symposium 10 (Room B) 8 : 30~11 : 00, November 20, (Fri.)

S10. Autoimmunity and its regulation

Chairpersons: Hitoshi KOHSAKA (Tokyo Medical and Dental University)
Mitsuru MATSUMOTO (The University of Tokushima)

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| S10-1 | 8 : 30~ 9 : 00 | Ludger KLEIN (Ludwig Maximilians University)
Intrathymic B cell licensing for central T cell tolerance |
| S10-2 | 9 : 00~ 9 : 30 | Mitsuru MATSUMOTO (The University of Tokushima)
Role of Aire in the establishment of self-tolerance |
| S10-3 | 9 : 30~10 : 00 | Naoki KIMURA (Tokyo Medical and Dental University)
Peripheral license for autoimmune-mediated tissue injury revealed from a murine model of polymyositis |
| S10-4 | 10 : 00~10 : 30 | Eric MEFFRE (Yale University School of Medicine)
Early B-cell tolerance checkpoints in patients with autoimmune diseases and humanized mice |
| S10-5 | 10 : 30~11 : 00 | Hisashi ARASE (Osaka University)
Cellular misfolded proteins rescued from degradation by MHC class II molecules are possible targets for autoimmune diseases |

Symposium 11 (Room C) 8 : 30~11 : 00, November 20, (Fri.)

S11. Dying cells regulate tissue homeostasis and diseases

Chairpersons: Hiroyasu NAKANO (Toho University)
Masato TANAKA (Tokyo University of Pharmacy and Life Sciences)

- S11-1 8 : 30~ 9 : 00 Hiroyasu NAKANO (Toho University)
Targeted integration of *CFLIPs* on the X chromosome in mice results in identification of genes that promote compensatory proliferation
- S11-2 9 : 00~ 9 : 30 John SILKE (The Walter and Eliza Hall Institute)
The Three Furies–Necroptosis, Cancer and Inflammation
- S11-3 9 : 30~10 : 00 Masayuki MIURA (The University of Tokyo/CREST, AMED)
Activation of inflammation by non-apoptotic cell death
- S11-4 10 : 00~10 : 30 Gilad DOITSH (University of California, San Francisco)
HIV Pathogenesis: Host Overreaction to a Foreign Visitor
- S11-5 10 : 30~11 : 00 Kenichi ASANO (Tokyo University of Pharmacy and Life Sciences)
CD169 macrophage–CCL8 axis is a therapeutic target for mucosal inflammation

Symposium 12 (Room E) 8 : 30~11 : 00, November 20, (Fri.)

S12. Mucosal immunity and vaccine

Chairpersons: Satoshi UEMATSU (Chiba University/The University of Tokyo)
Ken J. ISHII (National Institutes of Biomedical Innovation, Health and Nutrition/Osaka University)

- S12-1 8 : 30~ 9 : 00 Satoshi UEMATSU (Chiba University/The University of Tokyo)
Acute and chronic radiation injury in small intestine
- S12-2 9 : 00~ 9 : 30 Wayne SHREFFLER (MGH–Harvard Medical School)
Profiling the systemic immune response induced by mucosal allergen immunotherapy for food allergy
- S12-3 9 : 30~10 : 00 Hiroshi KIYONO (The University of Tokyo)
Mucosal Protective and Homeostatic Immunity for Vaccine Development
- S12-4 10 : 00~10 : 30 Rafick Pierre SEKALY (Case Western Reserve University)
The Innate mucosal response in SIV infection and vaccination
- S12-5 10 : 30~11 : 00 Ken J. ISHII (National Institutes of Biomedical Innovation, Health and Nutrition/Osaka University)
DAMPing airway mucosa, skin layers and tumor micro-environment by novel adjuvants