Symposia

Symposium 1 (Room A) 9:00–11:30, December 5, (Wed)

S1. Innate immunity

Chairpersons: Shizuo Akira (Osaka University) Kensuke Miyake (The University of Tokyo) S1-1 9:00 - 9:22 Masahiro Yamamoto (Osaka University) Role of GBPs in innate host defense against an intracellular pathogen Toxoplasma S1-2 9:22 - 9:52Xiaoxia Li (The Cleveland Clinic Foundation) Novel mechanisms for the regulatory role of IRAKM in TLR signaling S1-3 9:52 - 10:14Shin-Ichiroh Saitoh (The University of Tokyo) Arf-like GTPase Arl8b drives TLR7 into type I interferon-mediated autoimmunity S1-4 10:14 - 10:44Manolis Pasparakis (University of Cologne) Epithelial regulation of immune homeostasis and inflammation in barrier surfaces S1-5 10:44 - 11:14 Paul Kubes (University of Calgary) iNKT cells, rapid inducers of immunity S1-6 (LBT) 11:14 - 11:29 Jing Wang (Osaka University) Neutrophil infiltration during inflammation is regulated by PILR α via modulation of

Symposium 2 (Room B) 9:00–11:30, December 5, (Wed)

integrin activation

S2. Lymphocyte development

Chairpersons: Takashi Nagasawa (Kyoto University) Hiroshi Kawamoto (Kyoto University)

S2-1	9:00 - 9:30	Hiroshi Kawamoto (Kyoto University) Epigenetic mechanisms maintaining the T cell and thymic epithelial cell lineages
S2-2	9:30 - 10:00	Tariq Enver (University College London) Gene regulatory networks governing hematopoietic stem cell development and identity
S2-3	10:00 - 10:30	Takashi Nagasawa (Kyoto University) The adipo-osteogenic progenitors with long processes function as niches for hematopoietic stem and progenitor cells
S2-4	10:30 - 11:00	Satoshi Yamazaki (The University of Tokyo) Bone marrow Schwann cells in the bone marrow niche maintain hematopoietic st em cell hibernation through TGF- β signaling
S2-5	11:00 - 11:30	Utpal Banerjee (University of California, Los Angeles) Systemic control of hematopoietic progenitors in <i>Drosophila</i>

Symposium 3 (Room K) 9:00–11:30, December 5, (Wed)

S3. Effector T cell functions and neuro-immune interactions

Chairpersons: Masaaki Murakami (Osaka University) Marco Prinz (University of Freiburg)

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S3-1	9:00 - 9:25	Kai W. Wucherpfennig (Dana-Farber Cancer Institute) Immunological synapse formation by self-reactive human T cells
S3-2	9:25 - 9:50	Toshihide Yamashita (Osaka University) RGMa modulates T cell responses and is involved in autoimmune encephalomyelitis
S3-3	9:50 - 10:15	Alexander Flügel (University Medical Center Goettingen) The lung as checkpoint for encephalitogentic T cells
S3-4	10:15 - 10:40	Masaaki Murakami (Osaka University) Local neural pathway and a gateway for pathogenic T cells in the CNS
S3-5	10:40 - 11:05	Marco Prinz (University of Freiburg) Myeloid cells in the brain
S3-6	11:05 - 11:30	Lawrence Steinman (Stanford University) Amyloid fibrils composed of hexameric peptides attenuate neuroinflammation

Symposium 4 (Room L) 9:00-11:30, December 5, (Wed)

S4-7 (LBT) 11:15 - 11:30

S4. Autoimmune diseases

Chairpersons: Atsushi Kumanogoh (Osaka University) Yoshiya Tanaka (University of Occupational and Environmental Health) S4-1 9:00 -9:20 Shingo Nakayamada (University of Occupational and Environmental Health) Dynamic regulation of T follicular helper cell differentiation through STAT signaling S4-2 9:20 - 9:40 Yuka Kanno (National Institutes of Health) Shaping the active enhancer landscape of T cell populations through signal sensing transcription factors Kazuhiko Yamamoto (The University of Tokyo) S4-3 9:40 - 10:05Effector and regulatory T cells in autoimmunity S4-4 10:05 - 10:30Koji Yasutomo (University of Tokushima) Notch provides metabolic signal for CD4+ memory T cells associated with autoimmune responses S4-5 10:30 - 10:55Gary S. Firestein (University of California, San Diego) Epigenetics and DNA methylation in rheumatoid arthritis S4-6 10:55 - 11:15 Toshio Tanaka (Osaka University) Targeting interleukin-6: all the way to treat immune-mediated diseases

Glen N. Barber (University of Miami)

STING manifests self DNA-dependent inflammatory disease

Symposium 5 (Room A) 8:30–11:00, December 6, (Thu)

S5. Perpetuation and resolution of inflammation

Chairpersons: Kouji Matsushima (The University of Tokyo) Masayuki Miyasaka (Osaka University)

S5-1	8:30 - 8:55	Toshinori Nakayama (Chiba University) Sox4 acts as a downstream target of TGF β and suppresses GATA3-induced Th2 cell differentiation
S5-2	8:55 - 9:25	Steven Kunkel (University of Michigan) Regulation of the immune response via cytokine-directed epigenetic signatures
S5-3	9:25 - 9:55	Jeremy S. Duffield (University of Washington) The role of pericytes (perivascular cells) in perpetuation and resolution of inflammation
S5-4	9:55 - 10:20	Makoto Arita (The University of Tokyo) Emerging roles of lipid mediators in the resolution of inflammation
S5-5	10:20 - 10:45	Issei Komuro (Osaka University and The University of Tokyo) Complement C1q activates canonical Wnt signaling and promotes aging-related phenotypes
S5-6 (LBT)	10:45 - 11:00	Chigusa Nakahashi-Oda (University of Tsukuba) Apoptotic cells suppress mast cell inflammatory responses via the CD300a immunoreceptor

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

S6. Imaging of immune responses

Chairpersons: Masaru Ishii (Osaka University) Tadashi Yokosuka (RIKEN)

		Tadasiii Tokosuka (KIKEN)
S6-1	8:30 - 9:00	Stehen C. Bunnell (Tufts University)
S6-2	9:00 – 9:30	Matthew Krummel (University of California, San Francisco) Imaging the immune bee hive: Motility and the generation of collective behaviors in the immune response
S6-3	9:30 - 10:00	Tatsuo Kinashi (Kansai Medical University) Mst1 regulates integrin-dependent thymocyte trafficking and antigen recognition in the thymus
S6-4	10:00 - 10:30	Hai Qi (Tsinghua University) Parenchymal B cells and border control: A novel regulatory mechanism of follicular recruitment of helper T cells
S6-5	10:30 - 11:00	Kenji Kabashima (Kyoto University) Live imaging of skin immune responses

Symposium 7 (Room K) 8:30–11:00, December 6, (Thu)

S7. B cell activation

Chairpersons: Tomohiro Kurosaki (RIKEN and Osaka University)
Hitoshi Nagaoka (Gifu University)

		Through Ruguotta (On Conversity)
S7-1	8:30 - 8:55	Maki Kobayashi (Kyoto University) Activated cytidine deaminase regulates topoisomerase1 protein by miRNA during immunoglobulin gene recombination
S7-2	8:55 - 9:20	Wataru Ise (Osaka University) Regulation of memory antibody response by antigen-specific memory CD4 T cells
S7-3	9:20 - 9:50	Michael McHeyzer-Williams (The Scripps Research Institute) Regulating affinity maturation in germinal centers
S7-4	9:50 - 10:15	Patrick C. Wilson (The University of Chicago) Human B cell responses to influenza vaccination and infection
S7-5	10:15 - 10:45	Michel Nussenzweig (The Rockfeller University) Human antibodies to HIV: Prevention and therapy
S7-6 (LBT)	10:45 - 11:00	Ji-Yang Wang (RIKEN) Critical role of the IgM Fc receptor in IgM homeostasis, B cell survival and humoral immune responses

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

S8. Allergy

Chairpersons: Tomohiro Yoshimoto (Hyogo College of Medicine) Tomoki Ito (Kansai Medical University)

		Tomoki Ito (Kansai Medical University)
	8:30 – 8:35	Tomohiro Yoshimoto (Hyogo College of Medicine) Introduction
S8-1	8:35 - 9:00	Tomohiro Yoshimoto (Hyogo College of Medicine) A critical role of IL-33 and basophils in allergic rhinitis
S8-2	9:00 – 9:30	Richard M. Locksley (University of California, San Francisco) Lung immune response to chitin mediated by epithelial cytokines and innate helper type 2 (iH2) cells
S8-3	9:30 - 9:55	Hiroshi Watarai (RIKEN) Role of invariant natural killer T cells in the induction of airway hyperreactivity
S8-4	9:55 - 10:25	Yui-Hsi Wang (Cincinnati Children's Hospital Medical Center) Novel IL-9-producing innate helper cells promote oral antigen-induced anaphylaxis
S8-5	10:25 - 10:50	Kenji Izuhara (Saga University) Periostin, a matricellular protein, promotes chronicity of allergic skin inflammation

Symposium 9 (Room A) 9:00-11:30, December 7, (Fri)

S9. Regulation of immune responses

Chairpersons: Shimon Sakaguchi (Osaka University) Kenya Honda (The University of Tokyo)

S9-1	9:00 - 9:30	Naganari Ohkura (Osaka University) Epigenetic conversion defines the regulatory T cell lineage
S9-2	9:30 - 10:00	Shohei Hori (RIKEN) Genetic and environmental control of regulatory T cell fitness in tissues
S9-3	10:00 - 10:30	Akihiko Yoshimura (Keio University) Molecular bases for the regulation of DC and T cell responses by TGF-β
S9-4	10:30 - 11:00	Kenya Honda (The University of Tokyo) Potent Treg-inducing Clostridia species in the human microbiota
S9-5	11:00 - 11:30	Diane Mathis (Harvard University) Muscular Tregs

Symposium 10 (Room B) 9:00–11:30, December 7, (Fri)

S10. Systems immunology

Chairpersons: Osamu Takeuchi (Osaka University and Kyoto University)
Osamu Ohara (Kazusa DNA Res. Inst. and RIKEN)

		Osaniu Onara (Razusa DIVA Res. mst. and RIREN)
S10-1	9:00 - 9:25	Ido Amit (Weizmann Institute of Science) Principles of dynamic gene regulation in innate immune cells
S10-2	9:25 - 9:50	Satoru Miyano (The University of Tokyo) Gene network analysis with supercomputer
S10-3	9:50 - 10:15	Masahiro Ueda (Osaka University) Self-organization of intracellular signaling networks for chemotactic response and migration
S10-4	10:15 - 10:40	Wendy J. Fantl (Stanford University) Multidimensional proteomic single cell profiling by mass cytometry
S10-5	10:40 - 11:05	Mike White (The University of Manchester) Dynamics and function of the NF-κB signalling system
S10-6	11:05 - 11:20	Osamu Ohara (RIKEN) Systems immunology: Tackling the complexity of the immune system

Symposium 11 (Room K) 9:00–11:30, December 7, (Fri)

S11. Mucosal barrier

Chairpersons: Kiyoshi Takeda (Osaka University) Hiroshi Kiyono (The University of Tokyo)

		Throsh Riyono (The Oniversity of Tokyo)
S11-1	9:00 – 9:20	Koji Hase (The University of Tokyo) Epithelial Notch signaling secures the gut immune system
S11-2	9:20 - 9:50	Marc Veldhoen (Babraham Institute) Role of the arylhydrocarbon receptor in epithelial immunity
S11-3	9:50 - 10:20	Andreas Diefenbach (University of Freiburg) Transcriptional control of innate immune responses
S11-4	10:20 - 10:35	Yosuke Kurashima (The University of Tokyo) Extracellular ATP mediates mast cell-dependent intestinal inflammation through P2X7 purinoceptors
S11-5	10:35 - 11:05	Gérard Eberl (Institut Pasteur) Development and regulation of innate lymphoid cells by symbiotic microbiota
S11-6	11:05 - 11:20	Makoto Kinoshita (Osaka University) Dietary folic acid promotes survival of Foxp3+ regulatory T cells in the colon

Symposium 12 (Room L) 9:00–11:30, December 7, (Fri)

S12. Translational research in immunology

Chairpersons: Takayuki Sumida (University of Tsukuba)

	(Hitoshi Kohsaka (Tokyo Medical and Dental University)
S12-1	9:00 - 9:25	James McCluskey (The University of Melbourne) A drug-induced change in self-presentation by HLA-B*57:01 leads to self-reactivity
S12-2	9:25 - 9:50	Moriya Tsuji (The Rockefeller University) Carbohydrate-specific T cells (Tcarbs): a new paradigm in glycoconjugate vaccine development?
S12-3	9:50 - 10:15	Masaru Taniguchi (RIKEN) NKT cells as an ideal target for anti-tumor immunotherapy
S12-4	10:15 - 10:40	Norihiro Nishimoto (Wakayama Medical University) Discovery of IL-6 and its clinical application
S12-5	10:40 - 11:05	Kunihiro Yamaoka (University of Occupational and Environmental Health) Anti-inflammatory effect of a JAK inhibitor
S12-6	11:05 - 11:30	Isao Matsumoto (University of Tsukuba) Basic and translational concepts of autoimmune arthritis revealed by ubiquitous autoantigen