

Symposia

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

S1. Innate immunity and inflammation

Chairpersons: Shizuo Akira (Osaka University)
Kensuke Miyake (The University of Tokyo)

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| S1-1 | 9:00– 9:30 | Kensuke Miyake (The University of Tokyo)
Roles for accessory molecules in lipopolysaccharide recognition by Toll-like receptor 4 |
| S1-2 | 9:30– 10:00 | Genhong Cheng (UCLA)
Multiple type I interferon production pathways in response to viral infections |
| S1-3 | 10:00– 10:30 | Shizuo Akira (Osaka University)
Anti-viral responses via Toll-like receptors and cytoplasmic RNA helicases |
| S1-4 | 10:30– 11:00 | Takashi Suda (Kanazawa University)
Anti-inflammatory subfamily of Apaf-1 like proteins |
| S1-5 | 11:00– 11:30 | Gabriel Núñez (University of Michigan)
Role of NLR proteins in innate immunity and disease |

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

S2. T cell activation, memory and tolerance

Chairpersons: Masaaki Murakami (Osaka University)
Osami Kanagawa (RCAI, RIKEN)

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| S2-1 | 9:00– 9:30 | Eric S. Huseby (University of Massachusetts)
How do T cells generate specificity for MHC + peptide complexes? |
| S2-2 | 9:30– 9:50 | Osami Kanagawa (RCAI, RIKEN)
Age dependent change of peripheral T cell repertoire mediated by interaction between $\alpha\beta$ TCR and self-antigens. |
| S2-3 | 9:50– 10:10 | Koji Yasutomo (The University of Tokushima)
Regulation of T cell homeostasis by a protein tyrosine phosphatase |
| S2-4 | 10:10– 10:40 | Stephen P. Schoenberger (La Jolla Institute for Allergy and Immunology)
Programmed tolerance of CD8 ⁺ T cells by B cell APC |
| S2-5 | 10:40– 11:00 | Masaaki Murakami (Osaka University)
Non-hematopoietic cell populations play a role for IL-6-mediated enhancement of CD4 T cell activation. |
| S2-6 | 11:00– 11:30 | Michael J. Bevan (HHMI and University of Washington)
Generating functional CD8 ⁺ T cell memory |

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

S3. Immunotherapy

Chairpersons: Kazuyuki Yoshizaki (Osaka University)
Nobuyuki Miyasaka (Toyko Medical and Dental University)

- S3-1 9:00– 9:30 Garrison C. Fathman (Stanford University)
Assessing mechanism of response to adoptive cellular gene therapy in NOD mice using MHC sufficient and deficient DCS and gene expression analysis
- S3-2 9:30– 10:00 Shimon Sakaguchi (Kyoto University)
Control of physiological and pathological immune responses with regulatory T cells
- S3-3 10:00– 10:30 Silvia Gregori (HSR-TIGET)
Cellular therapy with regulatory T cells to restore tolerance
- S3-4 10:30– 11:00 Masaru Taniguchi (RCAI, RIKEN)
A phase I/IIa clinical trial on α -GalCer pulsed DC therapy in lung cancer patients
- S3-5 11:00– 11:30 Tadamitsu Kishimoto (Osaka University)
IL-6, Th17 and Treg; Why is anti-IL6 receptor effective in autoimmunity

Symposium 4 (Room I) 9:00–11:30 December 11, (Mon)

S4. Cell movement and trafficking

Chairpersons: Toshiyuki Tanaka (Osaka University)
Tatsuo Kinashi (Kansai Medical University)

- S4-1 9:00– 9:30 Makoto Iwata (Tokushima Bunri University)
Regulation of lymphocyte trafficking by retinoids
- S4-2 9:30– 10:00 Mehrdad Matloubian (UCSF)
Regulation of lymphocyte exit from lymphoid organs
- S4-3 10:00– 10:30 Yoshinori Fukui (Kyushu University)
DOCK2 is a Rac activator critical for neutrophil chemotaxis
- S4-4 10:30– 11:00 Sho Ishikawa (The University of Tokyo)
Treg trafficking and function in a murine model for SLE
- S4-5 11:00– 11:30 Klaus Ley (University of Virginia)
Trafficking of lymphocytes and macrophages to the aorta of normal and atherosclerotic mice

Symposium 5 (Room A) 9:00–11:30 December 12, (Tue)

S5. Immune recognition, signaling and imaging

Chairpersons: [Takashi Saito \(RCAI, RIKEN\)](#)
[Takeshi Tsubata \(Tokyo Medical and Dental University\)](#)

- S5-1 9:00– 9:30 [Lawrence E. Samelson \(NIH\)](#)
Signaling via the T cell antigen receptor
- S5-2 9:30– 10:00 [Tadashi Yokosuka \(RCAI, RIKEN\)](#)
TCR microclusters initiate and sustain T cell activation
- S5-3 10:00– 10:30 [Takeshi Tsubata \(Tokyo Medical and Dental University\)](#)
Regulated localization of BCR co-receptors CD22 and CD72 on the B cell surface
- S5-4 10:30– 11:00 [Susan K. Pierce \(NIH\)](#)
Viewing the initiation of B cell receptor signaling in living cells
- S5-5 11:00– 11:30 [Michiyuki Matsuda \(Kyoto University\)](#)
Live cell imaging of the intracellular signal transduction cascades with FRET probes

Symposium 6 (Room B) 9:00–11:30 December 12, (Tue)

S6. Zinc and immunity

Chairpersons: [Toshio Hirano \(Osaka University and RCAI\)](#)
[Takehiko Sasazuki \(International Medical Center of Japan\)](#)

- S6-1 9:00– 9:30 [Glen K. Andrews \(University of Kansas\)](#)
Regulation and function of mouse zinc transporter (ZIP) genes
- S6-2 9:30– 10:00 [Toshio Hirano \(Osaka University and RCAI\)](#)
Zinc and dendritic cell maturation: Does zinc act as a signaling molecule?
- S6-3 10:00– 10:30 [Dietmar Kappes \(Fox Chase Cancer Center\)](#)
Role of the zinc finger transcription factor Th-POK in T cell development and lymphomagenesis
- S6-4 10:30– 11:00 [Carola G. Vinuesa \(Australian National University\)](#)
Roquin, a Ring-1 and CCCH zinc finger protein, is a critical suppressor of autoimmunity
- S6-5 11:00– 11:30 [Takehiko Sasazuki \(International Medical Center of Japan\)](#)
A zinc finger transcription factor ZFAT controls autoimmune thyroid diseases through regulating the expression of immune related genes.

Symposium 7 (Room C) 9:00–11:30 December 12, (Tue)

S7. Allergy

Chairpersons: Hajime Karasuyama (Tokyo Medical and Dental University)
Toshinori Nakayama (Chiba University)

- S7-1 9:00 – 9:30 Steven F. Ziegler (Benaroya Research Institute)
TSLP and allergic inflammation
- S7-2 9:30 – 10:00 Hajime Karasuyama (Tokyo Medical and Dental University)
Basophils in chronic allergic inflammation
- S7-3 10:00 – 10:30 Toshinori Nakayama (Chiba University)
Memory Th2 cells and allergic responses
- S7-4 10:30 – 11:00 Rick M. Maizels (University of Edinburgh)
Regulatory T cells induced by helminth infection down-modulate airway allergic inflammation
- S7-5 11:00 – 11:30 Takachika Hiroi (The Tokyo Metropolitan Institute of Medical Science)
Oral tolerance: Peptide immunotherapy for allergic diseases using a rice-based edible vaccine

Symposium 8 (Room I) 9:00–11:30 December 12, (Tue)

S8. B cell biology

Chairpersons: Akira Shimizu (Kyoto University)
Takeshi Tokuhsa (Chiba University)

- S8-1 9:00 – 9:30 Nasim Ara Begum and Tasuku Honjo (Kyoto University)
Role of AID and UNG in genomic memory of antigen exposure
- S8-2 9:30 – 10:00 Michel Nussenzweig (HHMI Rockefeller University)
Switching on chromosome translocations
- S8-3 10:00 – 10:30 Frederick Alt (HHMI Harvard Med School)
NHEJ and the double-strand break response in IgH class recombination and translocations
- S8-4 10:30 – 11:00 Manabu Sugai and Akira Shimizu (Kyoto University)
Control of B cell differentiation and immune response by Id2
- S8-5 11:00 – 11:30 Takeshi Tokuhsa (Chiba University)
A role for Bcl6 in B cells activated with sequential stimulation of IL-4 and IL-21

Symposium 9 (Room A) 9:00–11:30 December 13, (Wed)

S9. Costimulatory molecules and DC

Chairpersons: [Hitoshi Kikutani \(Osaka University\)](#)
[Vijay Kuchroo \(Harvard Medical School\)](#)

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| S9-1 | 9:00 – 9:30 | Arlene Sharpe (Harvard Medical School)
Roles of pathways in the B7:CD28 family in regulating T cell activation and tolerance |
| S9-2 | 9:30 – 10:00 | Taku Okazaki (Kyoto University)
PD-1 deficiency and autoimmune diseases. |
| S9-3 | 10:00 – 10:30 | Vijay Kuchroo (Harvard Medical School)
Costimulatory and inhibitory functions of TIM molecules |
| S9-4 | 10:30 – 11:00 | Atsushi Kumanogoh (Osaka University)
Involvement of plexin-A1 in activation and migration of dendritic cells. |
| S9-5 | 11:00 – 11:30 | Tsuneyasu Kaisho (RCAI, RIKEN)
Critical roles of IKK α in TLR7/9-stimulated DC |

Symposium 10 (Room B) 9:00–12:00 December 13, (Wed)

S10. Late Prof. Yuichi Yamamura memorial symposium

Chairpersons: [Tadamitsu Kishimoto \(Osaka University\)](#)

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| | 9:00 – 9:10 | Tadamitsu Kishimoto (Osaka University)
Opening Remark |
| S10-1 | 9:10 – 9:30 | Shizuo Akira (Osaka University)
Toll-like receptors as adjuvant receptors which link innate and acquired immunity |
| S10-2 | 9:30 – 9:55 | Tadatsugu Taniguchi (The University of Tokyo)
Transcriptional regulation in the immune system by the IRF family transcription factors |
| S10-3 | 9:55 – 10:25 | William E. Paul (NIH)
Th2 differentiation : Transcription factors and repertoire-determined immunopathology |
| S10-4 | 10:25 – 10:45 | Tasuku Honjo (Kyoto University)
Role of AID and UNG in genomic memory of antigen exposure |
| S10-5 | 10:45 – 11:10 | Kiyoshi Takatsu (The University of Tokyo)
IL-5: How does it regulate immune response and inflammation? |
| S10-6 | 11:10 – 11:30 | Toshio Hirano (Osaka University and RCAI)
Interaction of immune system with non-immune system induces autoimmune diseases |

Symposium 11 (Room C) 9:00–11:30 December 13, (Wed)

S11. Autoimmune diseases

Chairpersons: Tsuneyo Mimori (Kyoto University)
Takayuki Sumida (University of Tsukuba)

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| S11-1 | 9:00 – 9:30 | Mark Mamula (Yale University)
The routes of autoantigen presentation in disease |
| S11-2 | 9:30 – 10:00 | Jun-ichiro Inoue (The University of Tokyo)
TRAF6 in self-tolerance |
| S11-3 | 10:00 – 10:30 | Isao Matsumoto (University of Tsukuba)
Immune responses against ubiquitous glycolytic enzyme leading arthritis- possible link between human and animal models |
| S11-4 | 10:30 – 11:00 | Takao Fujii (Kyoto University)
Generation of regulatory antibodies against T cell receptor by vaccination with CD4 ⁺ Th1 clones in lupus-prone mice |
| S11-5 | 11:00 – 11:30 | Jennifer H. Anolik (University of Rochester)
Immunobiology of biologic interventions in human autoimmune disease |

Symposium 12 (Room G) 9:00–11:30 December 13, (Wed)

S12. Regulation of immune responses by pathogens

Chairpersons: Hisashi Arase (Osaka University)
Shigeo Koyasu (Keio University)

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| S12-1 | 9:00 – 9:30 | Hisashi Arase (Osaka University)
Regulation of immunity to pathogens by paired receptors |
| S12-2 | 9:30 – 10:00 | Satoshi Koike (Tokyo Metropolitan Institute for Neuroscience)
Role of type I interferon response in tissue tropism and pathogenicity of poliovirus |
| S12-3 | 10:00 – 10:30 | Gavin Wilkinson (Cardiff University)
Evasion and stimulation of Natural Killer cells during virus infection |
| S12-4 | 10:30 – 11:00 | Shigeo Koyasu (Keio University)
Pathogenic <i>E. coli</i> induces Th1 immunity as an infection strategy by controlling DC functions |
| S12-5 | 11:00 – 11:30 | Soman N. Abraham (Duke University)
Mast cell modulation of immunity to bacterial infections |

Symposium 13 (Room I) 9:00–11:30 December 13, (Wed)

S13. Mucosal immunity

Chairpersons: [Kiyoshi Takeda](#) (Kyushu University)
[Hiroshi Kiyono](#) (The University of Tokyo)

- S13-1 9:00 – 9:30 [Hiroshi Kiyono](#) (The University of Tokyo)
Lymphoid chemokine family for the initiation and maturation phases of NALT development and its mediated mucosal immune responses
- S13-2 9:30 – 10:00 [Dennis Kasper](#) (Harvard Medical School)
Bacterial polysaccharides provide the Yin and Yang of health and disease during intestinal colonization
- S13-3 10:00 – 10:30 [Kiyoshi Takeda](#) (Kyushu University)
Nuclear I κ B protein-mediated regulation of innate immune responses at the intestinal mucosa
- S13-4 10:30 – 11:00 [Maria Rescigno](#) (European Institute of Oncology)
Intestinal epithelial cells control dendritic cell function
- S13-5 11:00 – 11:30 [Naoto Ishii](#) (Tohoku University)
Inflammatory bowel disease mediated by OX40 signaling