

Program

Thursday, June 22

Opening Remarks:

9:30 **Tadashi Yamamoto**, Director, RIKEN IMS

Session I: Functional genomic of lymphocytes

Chair: K. Moro and I. Taniuchi

9:40 I-1 **Kazuhiko Yamamoto**, RIKEN, IMS, Japan
Functional insights from genetic information of autoimmune diseases

10:10 I-2 **Ido Amit**, Weizmann Institute of Science, Israel
The power of ONE: Immunology in the age of single cell genomics

10:40 Coffee Break

11:00 I-3 **David E. Hill**, Dana-Farber Cancer Institute, USA
Using Interactome Networks to Unravel Cellular and Systems Complexity in Human Disease

11:30 I-4 **Yukinori Okada**, Osaka University, Japan
Statistical genetics, disease biology, and drug discovery

12:00 Lunch

13:30 I-5 **Kazuyo Moro**, RIKEN, IMS, Japan
Development of tissue-resident ILC2 occurs in peripheral tissue

14:00 I-6 **Ichiro Taniuchi**, RIKEN, IMS, Japan
Roles of Runx Transcription Factors In Immune System Development

Session II: Animal model and Immunotherapy

Chair: K. Chamoto and R. M. Nitsch

14:30 II-1 **Roger M. Nitsch**, University of Zurich, Switzerland
Recombinant Human Monoclonal Antibodies for the Disease-Modifying Treatment of Neurodegenerative Diseases

15:00 Coffee Break

15:20 II-2 **Shimon Sakaguchi**, Osaka University, Japan
Control of immune responses by regulatory T cells

15:50 II-3 **Kenji Chamoto**, Kyoto University, Japan
T cell energy metabolism regulates PD-1 blockade-mediated anti-tumor effect

16:20 II-4 **Yoshihiro Kawaoka**, University of Tokyo, Japan / University of Wisconsin, USA
Flu-vision: total imaging systems for analyzing influenza virus infection

Short Talk:

16:50 **Ioana Visan**, Senior Editor, Nature Immunology
Publishing science- an editorial perspective

17:30 Social gathering

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Session III: Interface between the immune system and environment

Chair: K. C. Nagao and K. Takeda

- 9:30 III-1 **Hiroshi Kiyono**, University of Tokyo, Japan
Mucosal Trio-regulatory Machinery of Epithelial Cells-Innate Lymphoid Cells-Commensal Bacteria for Gut Homeostasis and Inflammation
- 10:00 III-2 **James P. Di Santo**, Institut Pasteur, France
Developmental Options and Functional Plasticity of Human Innate Lymphoid Cells
- 10:30 Coffee Break
- 10:50 III-3 **Keisuke C. Nagao**, National Institutes of Health, USA
The role of innate lymphoid cells in the skin microbial ecology
- 11:20 III-4 **Kiyoshi Takeda**, Osaka University, Japan
Regulation of intestinal homeostasis by epithelial barriers

Short Talk:

- 11:50 **Ilana Gabanyi**, The Rockefeller University, USA (A speaker from RISP)
Neuro-immune Interactions Drive Tissue Programming in Intestinal Macrophages
- 12:05 Lunch

Session IV: Fundamental aspects of immunology

Chair: M. Colonna and Y. Hamazaki

- 13:30 IV -1 **Gabriel D. Victora**, The Rockefeller University, USA
Monitoring T cell-APC interactions in vivo
- 14:00 IV -2 **Hisashi Arase**, Osaka University, Japan
MHC class II-induced neo-self antigens in autoimmune diseases
- 14:30 IV -3 **Yoko Hamazaki**, Kyoto University, Japan
Innate immune cell recruitment and activation by Hassall's corpuscles in the thymic medulla: Implications of "sterile inflammation" on T-cell development
- 15:00 Coffee Break
- 15:20 IV -4 **Marco Colonna**, Washington University, USA
Distinct Gene Regulatory Pathways for Human Innate versus Adaptive Lymphoid Cells.
- 15:50 IV -5 **Katsuyuki Yugi**, RIKEN, IMS, Japan
Reconstruction of insulin-dependent metabolic regulatory networks from phosphoproteome and metabolome data

Short Talk:

- 16:20 **Norifumi Iijima**, Osaka University, Japan (A speaker from JSI)
Peripheral immune protection against mucosal virus infection

Closing Remarks:

- 16:35 **Sidonia Fagarasan**, Chair, Program Committee