

Program

Thursday, June 7

Opening Remarks:

9:30 **Sidonia Fagarasan**, Chair, Program Committee

Session I: Fundamental aspects of immunology: Antigenicity

Chair: **T. Akiyama and M. Lafaille**

9:40 I-1 **Sho Yamasaki**, Osaka University, Japan
Regulation of immune responses via C-type lectin receptors

10:10 I-2 **Florent Ginhoux**, A*STAR, Singapore
Human Dendritic Cells: From Development to Functions

10:40 Coffee Break

11:00 I-3 **Taishin Akiyama**, RIKEN IMS, Japan
Dependence of homeostatic maturation of thymic antigen presenting cells on TNF receptor family signaling

11:30 I-4 **Hai Qi**, Tsinghua University, China
Bystander and antigen-specific T-B interactions

12:00 Lunch

13:45 I-5 **Maria A. Curotto de Lafaille**, New York University, USA
B cell memory of allergic responses

Short Talk 1 **Harumichi Ishigame**, RIKEN IMS, Japan

14:15 *Developmental plasticity of effector CD8⁺ T cells generates functional heterogeneity of memory T cells*

Session II: Functional genomic of lymphocytes: Next-generation technologies

Chair: **N. Soranzo and T. Okada**

14:30 II-1 **Piero Carninci**, RIKEN IMS, Japan
An emerging landscape of transcriptome complexity

15:00 II-2 **Nicole Soranzo**, Wellcome Trust Sanger Institute, UK
Genetic and epigenetic determinants of transcriptional variation in immune cells

15:30 Coffee Break

15:50 II-3 **Roser Vento**, Wellcome Trust Sanger Institute, UK
Reconstructing the human first trimester fetal–maternal interface using single cell transcriptomics

16:20 II-4 **Takaharu Okada**, RIKEN IMS, Japan
Imaging of the epidermal nerve dynamics and activity in normal and pruritic dermatitis conditions

Short Talk 2 **Tsukasa Nabekura**, University of Tsukuba, Japan

16:50 *Tracking the fate of antigen-specific versus cytokine-activated natural killer cells after cytomegalovirus infection*

17:05 End of the day

Friday, June 8

Session III: Systems biology: Biochemistry, Immunology and environmental interactions

Chair: H. Ohno and V. O'Donnell

- 9:30 III-1 **Hiroshi Ohno**, RIKEN IMS, Japan
Small intestinal microbes act in concert to exacerbate autoimmune inflammation in the central nervous system
- 10:00 III-2 **Masahira Hattori**, RIKEN IMS, Japan
Novel genetic features in human gut microbiomes uncovered by long-read metagenomics
- 10:30 Coffee Break
- 10:50 III-3 **Mariko Okada**, Osaka University, Japan
Integrative analysis to reveal transcriptional regulation of NF- κ B
- 11:20 III-4 **Valerie B. O'Donnell**, Cardiff University, UK
Circulating blood cells generate immunoactive phospholipids that promote haemostasis, and regulate vascular inflammation.
- 11:50 **Interacting with a publisher**
- 12:20 Lunch
- 14:15 III-5 **Toshihiko Ogura**, Tohoku University, Japan
The M project --- Mechanical, Metabolism, Mitochondria and Muscles ---

Short Talk 3 Yuki Sugiura, Keio University, Japan

- 14:45 *Visualization of immune-brain metabolic competition between brain and lymph nodes by mass spectrometry imaging*

Session IV: Cancer immunology / Immunotherapy

Chair: V. A. Boussiotis and H. Udono

- 15:00 IV -1 **Tasuku Honjo**, Kyoto University, Japan
Cancer immunotherapy by PD-1 blockade
- 15:30 IV -2 **Vassiliki A. Boussiotis**, Harvard Medical School, USA
Molecular and systemic mechanisms of PD-1 function
- 16:00 Coffee Break
- 16:20 IV -3 **Heiichiro Udono**, Okayama University, Japan
Anti-diabetes drug, Metformin, drives metabolic reprogramming of tumor microenvironment, leading to inhibition of tumor growth
- 16:50 IV -4 **Stefano Casola**, IFOM, Italy
Targeting B cell antigen receptor function in mature B cell neoplasms: opportunities, challenges and warnings

Short Talk 4 Kyoko Masuda, Kyoto University, Japan

- 17:20 *Regeneration of tumor antigen specific CTLs using the iPSC technology*

Closing Remarks:

- 17:35 **Tadashi Yamamoto**, Director, RIKEN IMS
- 18:00 Social gathering