

Program

Thursday, June 29

9:00 Registration

Opening Remarks:

10:00 Kazuhiko YAMAMOTO, Director, RIKEN IMS

Session I: IMMUNE MEMORY Chairs: L. MACKAY and K. ISHII

- 10:10 I-1 **Hai-Hui XUE**, Hackensack University Medical Center (USA)
3D genome reorganization underlies enhanced recall capacity by central memory CD8⁺ T cells
- 10:40 I-2 **Shin-ichiro FUJII**, RIKEN IMS/RIKEN DMP (Japan)
Therapeutic vaccine eliciting multifunctional immunity, artificial adjuvant vector cells (aAVC)
- 11:10 Coffee Break
- 11:30 I-3 **Laura MACKAY**, Peter Doherty Institute at the University of Melbourne (Australia)
Deconvoluting tissue-resident memory T cells in tumours
- 12:00 I-4 **Sho YAMASAKI**, RIMD, IFRc, Osaka University (Japan)
Deciphering clonotypic responses of human T cells against infection
- 12:30 Lunch
- 14:00 I-5 **Ken ISHII**, The Institute of Medical Science, The University of Tokyo (Japan)
Extracellular nucleic acids and their metabolite in immunity and vaccine science
- 14:30 I-6 **Andrea ABLASSER**, Global Health Institute, EPFL (Switzerland)
Sensing DNA as a danger signal through the cGAS-STING pathway
- 15:00 Coffee Break

Session II: AGE-RELATED IMMUNE RESPONSE Chairs: K. HONDA and M. LINTERMAN

- 15:20 II-1 **Yoko HAMAZAKI**, Center for iPS Cell Research and Application, Kyoto University (Japan)
TBD
- 15:50 II-2 **Kenya HONDA**, RIKEN IMS/Keio University School of Medicine (Japan)
Toward development of defined microbial therapeutics
- 16:20 II-3 **Eiji HARA**, RIMD, Osaka University (Japan)
The role of cellular senescence in aging and cancer: a gut microbial connection
- 16:50 II-4 **Michelle LINTERMAN**, Babraham Institute (UK)
Lost in space: How ageing causes helper T cells to lose their way

Young Speaker from RIKEN IMS 1:

- 17:20 **Tetsuro KOBAYASHI**, RIKEN IMS (Japan)
Innate lymphoid cells promote skin barrier repair after mechanical damage
- 17:40 End of the day

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Session III: IMMUNOMETABOLISM Chairs: S. FAGARASAN and M. ARITA

9:30 III-1 **Sidonia FAGARASAN**, RIKEN IMS (Japan)
A novel B cell-derived metabolite elicits anti-inflammatory macrophages and limits anti-tumor cytotoxic responses

10:00 III-2 **Behdad AFZALI**, National Institute of Diabetes and Digestive and Kidney Diseases, NIH (USA)
Transcription factors regulating T cell inflammation

10:30 Coffee Break

10:50 III-3 **Yusuke ENDO**, KAZUSA DNA Research Institute (Japan)
The novel function of lipid synthetic flux on Th17 cell differentiation and pathogenicity

Session IV: REGULATION OF INFLAMMATION Chairs: K. ISHIGAKI and H. NAMKOONG

11:20 IV-1 **Soumya RAYCHAUDHURI**, Brigham and Women's Hospital, Harvard Medical School, Broad Institute (USA)
Defining mechanisms of autoimmune diseases with genetics and single cell genomics

JSI Young Investigator Awardee 1:

11:50 **Sho HANGAI**, Herbert Irving Comprehensive Cancer Center, Columbia University (USA)
TCTP released by tumor cells orchestrates dynamics of myeloid-derived suppressor cells in the tumor immune microenvironment

12:10 Lunch

13:30 IV-2 **Kazuyoshi ISHIGAKI**, RIKEN IMS (Japan)
T cell receptor patterns critical for T cell fate determination and autoimmunity risk

14:00 IV-3 **Yumi MATSUOKA-NAKAMURA**, IFRc, Osaka University (Japan)
Impact of staphylococcus Agr quorum sensing in atopic dermatitis and systemic infection

14:30 IV-4 **Daisuke SUGIURA**, Institute for Quantitative Biosciences, The University of Tokyo (Japan)
Regulation of T cell activation by cis-PD-L1-CD80 interactions

15:00 Coffee Break

15:20 IV-5 **Ho NAMKOONG**, Keio University School of Medicine (Japan)
DOCK2 is involved in the host genetics and biology of severe COVID-19

15:50 IV-6 **Chrysothemis BROWN**, Memorial Sloan Kettering Cancer Center (USA)
Early life imprinting of intestinal tolerance

Session V:**Chair: I.TANIUCHI****JSI Young Investigator Awardee 2:**

16:20 **Takeshi KAWABE**, Tohoku University Graduate School of Medicine (Japan)
Self-driven memory-phenotype cells: a naturally arising CD4+ T lymphocyte population possessing innate immune function

Young speaker from RIKEN IMS 2:

16:40 **Motoi YAMASHITA**, RIKEN IMS (Japan)
Chemical-induced degradation of immune proteins in mice by degron systems

Publisher Talk Laurie DEMPSEY, Nature Immunology editor (USA)

17:00 Demystifying the publishing process at Nature journals – Insights from 20+ years as a Nature Immunology editor

Closing Remarks:

17:20 **Kohei MIYAZONO**, Executive Director, RIKEN

17:30 End of the day

18:00 Social Gathering