

Program

Tuesday, June 25

9:00 **Registration**

Opening Remarks:

10:00 **Kazuhiko YAMAMOTO**, Director, RIKEN IMS

Session I: GUT IMMUNITY

Chairs: K. MORO and R. XAVIER

- 10:10 I-1 **Naoko SATOH-TAKAYAMA**, RIKEN IMS (Japan)
Innate lymphoid cells with a unique role in the regulation of peritonitis.
- 10:40 I-2 **Ramnik XAVIER**, The Broad Institute of MIT & Harvard (USA)
Learning Mucosal Immunity from Human Genetics
- 11:10 I-3 **Ye-Ji BANG**, Seoul National University College of Medicine (South Korea)
Bacterial regulation of vitamin A transport and its role in the intestinal immunity
- 11:40 I-4 **Kazuyo MORO**, RIKEN IMS (Japan)
The Impact of Appendectomy on Ulcerative Colitis
- 12:10 Lunch

Session II: RNA BIOLOGY IN IMMUNITY

Chairs: O. TAKEUCHI and S. HUR

- 13:40 II-1 **Sun HUR**, HHMI and Harvard Medical School (USA)
Nucleic acid-driven self-assemblies: FoxP3 and Aire
- 14:10 II-2 **Manolis PASPARAKIS**, University of Cologne (Germany)
Regulation and sensing of self Z-RNA in cell death and interferon responses
- 14:40 II-3 **Hiroki KATO**, University of Bonn (Germany)
Dysregulation of Treg homeostasis by ADAR1 deficiency and chronic MDA5 signaling
- 15:10 Coffee Break
- 15:40 II-4 **Yuka W. IWASAKI**, RIKEN IMS (Japan)
Small RNA-mediated genome defense from transposable elements
- 16:10 II-5 **Osamu Takeuchi**, Graduate School of Medicine, Kyoto University (Japan)
Post-transcriptional regulation of the immune system by Regnase-1-related endoribonucleases

JSI Young Investigator Awardee:

- 16:40 II-6 **Daichi YAMASOBA**, Kobe University School of Medicine (JAPAN)
N4BP1 restricts HIV-1 and its inactivation by MALT1 promotes viral reactivation

JSI Young Investigator Awardee:

- 17:00 II-7 **Saya MORIYAMA**, National Institute of Infectious Diseases (Japan)
Broadly neutralizing antibodies against SARS-CoV-2

IMS Young Investigator Talk:

- 17:20 II-8 **Takuma MISAWA**, RIKEN IMS (Japan)
Innate lymphoid cells rewire ketogenesis by promoting lipid transports through the portal vein.

17:40 End of the day

Wednesday, June 26

9:00 Registration

Session III: BEHAVIOUR & IMMUNOLOGY

Chairs: T. OKADA and A. MOLOFSKY

9:30 III-1 **Takaharu OKADA**, RIKEN IMS (Japan)
Multiple types of sensory neurons responsible for atopic dermatitis itch

10:00 III-2 **Anna Victoria MOLOFSKY**, University of California, San Francisco (USA)
Cytokine regulation of brain development

10:30 Coffee Break

10:50 III-3 **Hans-Reimer RODEWALD**, German Cancer Research Center (Germany)
Mast cells and immunity of avoidance

JSI Young Investigator Awardee

11:20 III-4 **Baihao ZHANG**, RIKEN IMS (JAPAN)
B cell-derived GABA elicits anti-inflammatory macrophages limiting anti-tumour cytotoxic responses

11:40 III-5 **Yukinori OKADA**, RIKEN IMS/The University of Tokyo/Osaka University (JAPAN)
Statistical genetics elucidates biology and medicine of immune-related diseases

12:10 Lunch

Session IV: MULTI-OMICS ANALYSIS

Chairs: K. ISHIGAKI and G. TRYNKA

13:40 IV-1 **Gosia TRYNKA**, Wellcome Sanger Institute (UK)
From GWAS to function: interrogating biology at scale to contextualise gene function

14:10 IV-2 **Keisuke GODA**, Department of Chemistry, The University of Tokyo (Japan)
Intelligent image-activated cell sorting

Publisher Talk

14:40 **Montserrat COLS VIDAL** Journal of Experimental Medicine, Senior Scientific Editor (USA)
Scientific publishing at JEM: What, How and Why

15:05 Coffee Break

Session V: IMMUNODEFICIENCY & GENE THERAPY

Chairs: I. TANIUCHI and G. CROOKS

IMS Young Investigator Talk:

15:40 V-1 **Kazuki OKUYAMA**, RIKEN IMS (Japan)
Interference of Bcl11a-Bcl11b heterodimer function by BCL11B^{N441K} variant during neurogenesis and early T cell development

16:00 V-2 **Gay M. CROOKS**, University of California, Los Angeles (USA)
Adenine Base Editing of Human Hematopoietic Stem Cells for Correction of CD3D Severe Combined Immune Deficiency

16:30 V-3 **Satoshi YAMAZAKI**, The Institute of Medical Science, The University of Tokyo (Japan)
Expansion hematopoietic stem cells and application

17:00 V-4 **Boyoung SHIN**, California Institute of Technology (USA)
Dissecting environmental and transcription factor inputs that convert multipotent bone marrow progenitor cells into early T-progenitor cells using a new in vitro system

Closing Remarks:

17:20 **Tomohiro KUROSAKI**, President, Japanese Society for Immunology

17:25 End of the day

18:00 Social Gathering