## The 32nd Hot Spring Harbor International Symposium

## **Recent Advances in Cell Biology and Immunology 2023**

October 25-26, 2023 Online meeting

Wednesday, October 25, 2023		
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10:00-10:05	Opening Remarks: Shinichiro Sawa (Kyushu University, Japan)	
10:05-10:10	Announcement	
Session 01:	Development and lineage commitment of immune cells	
	Chair: Yoshihiro Baba	
10:10-10:40	S-01 : Chrysothemis Brown (Memorial Sloan Kettering Cancer Center, USA) Early life imprinting of immune tolerance	
10:40-11:05	S-02 : <b>Shinichiro Sawa</b> (Kyushu University, Japan) Regulatory mechanism of RORγt expression in innate and adaptive lymphocytes	
11:05-11:10	Short break	
11:10-11:35	S-03 : <b>Sho Yamasaki</b> (Osaka University, Japan) Regulation of MAIT cells by a host-derived antigen	
11:35-12:00	S-04 : <b>Takahiro Masuda</b> (Kyushu University, Japan) Similar but different: Diverse macrophages in the central nervous system	
12:00-13:00	Lunch	
Session 02:	Migration, recognition, and activation of leukocytes	
	Chair: Takahiro Masuda	
13:00-13:30	S-05: <b>Morgan Huse</b> (Memorial Sloan Kettering Cancer Center, USA) Mechanoregulation of Immune Effector Function	
13:30-13:55	S-06: <b>Takanari Inoue</b> (Johns Hopkins University School of Medicine, USA) Missing link between skeleton and skin in cell motility	
13:55-14:00	Short break	

14:00-14:25	S-07 : <b>Takumi Maruhashi</b> (The University of Tokyo, Japan) Immune regulation by LAG-3, an inhibitory co-receptor of a unique target selectivity
14:25-14:50	S-08 : <b>Yoshinori Fukui</b> (Kyushu University, Japan) A mechanism that grants immune privilege at the feto-maternal interface
14:50-15:00	Short break
Session 03:	Stromal-immune cell interactions
	Chair: Shinichiro Sawa
15:00-15:30	S-09: <b>Jakub Abramson</b> (Weizmann Institute of Science, Israel) From Broken Self-Tolerance to Broken Teeth AIRE deficiency reveals autoimmune amelogenesis imperfecta
15:30-15:55	S-10: <b>Takashi Nagasawa</b> (Osaka University, Japan) Bone marrow specific fibroblasts creating microenvironmental niches for hematopoietic stem cells and lympho-hematopoiesis
15:55-16:20	S-11: <b>Mamiko Sakata-Yanagimoto</b> (University of Tsukuba, Japan) Unraveling Microenvironmental Diversity in Malignant Lymphoma through Single-Cell Analysis
16:20-16:30	Short break
16:30-17:00	S-12: <b>Burkhard Ludewig</b> (Kantonsspital St.Gallen, Switzerland) Lymphoid organ fibroblast control immune cell differentiation and activity
17:00-17:30	S-13 : <b>Lucie Peduto</b> (Institut Pasteur, France) Stromal mesenchymal cells in tissue homeostasis and antitumor immunity

Thursday, October 26, 2023		
11:30-11:35	Announcement	
11.50-11.55	Amouncement	
Session 04:	Allergy and inflammation	
	Chair: Takehito Uruno	
11:35-12:00	S-14: <b>Kiyoshi Hirahara</b> (Chiba University, Japan) Pathological tissue inflammatory memories - Immune-neuro interaction shapes the transformation of inflamed tissue -	
12:00-12:25	S-15: <b>Kenji Kabashima</b> (Kyoto University, Japan) Cutaneous immune responses to foreign bodies	
12:25-12:50	S-16: <b>Hideki Ueno</b> (Kyoto University, Japan) Human germinal center helper cells differentiate into IL-10+ T follicular regulatory cells	
12:50-13:50	Lunch	
Session 05:	Commensals and host immunity	
	Chair: Minako Ito	
13:50-14:15	S-17 : <b>Koji Atarashi</b> (Keio University, Japan) Gut Microbiota and Longevity	
14:15-14:40	S-18: <b>Kazuki Nagashima</b> (Stanford University, USA) Mapping the T cell repertoire to a complex defined gut bacterial community	
14:40-14:45	Short break	
14:45-15:10	S-19 : <b>Hiroko Kitamoto</b> (Osaka University, Japan) Microbial-Host Cross-talk in Inflammatory Bowel Disease	
15:10-15:35	S-20 : <b>Koji Hase</b> (Keio University, Japan) The pathological link between the intestinal immune system and autoimmune disorders	
15:35-15:45	Short break	
Session 06:	Host defense against pathogens  Chair: Shinya Tanaka	

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15:45-16:10 S-21: **Takasuke Fukuhara** (Hokkaido University, Japan)
Establishment of a simple high-speed reverse genetics system for SARS-CoV-2 and application research using recombinant viruses

16:10-16:35	S-22: <b>Masahiro Yamamoto</b> (Osaka University, Japan) Identification of secreted and non-secreted <i>Toxoplasma</i> virulence factors by <i>in vivo</i> CRISPR screens
16:35-17:00	S-23: <b>Hisashi Arase</b> (Osaka University, Japan) Autoimmunity by aberrant MHC class II self-antigen presentation by virus infection
17:00-17:05	Closing Remarks:  Yoshinori Fukui  (Director of Medical Institute of Bioregulation, Kyushu University, Japan)