

## Program

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<Friday, November 7, 2014>

12:20 – 12:30      **Opening remarks**  
**Hiroyuki Sasaki** (Director, Medical Institute of Bioregulation)

### **Session 1: Hematopoietic stem cell and their niche**

*Chaired by Kei-ichi Nakayama*

12:30 – 13:00      **Takashi Nagasawa** (Kyoto University)  
The microenvironmental niches for hematopoietic stem and progenitor cells in bone marrow

13:00 – 13:25      **Yuya Kunisaki** (Kyushu University)  
*NG2<sup>+</sup> arteriolar pericytes form niches for dormant hematopoietic stem cells*

13:25 – 13:50      **Yoshio Katayama** (Kobe University)  
Lympho-hematopoietic microenvironment regulated by inter-organ communication

13:50 – 14:05      **Shoichiro Takeishi** (Young speaker; Kyushu University)  
Disruption of quiescence by p57 ablation confers oncogene addiction to leukemia stem cells through altered niche regulation

### **Session 2: Thymic microenvironment**

*Chaired by Yoshinori Fukui*

14:10 – 14:45      **Graham Anderson** (University of Birmingham, UK)  
Cellular and molecular regulation of the thymus medulla

14:45 – 15:10      **Yoko Hamazaki** (Kyoto University)  
Thymic medullary epithelial stem cells ensuring lifelong central T-cell tolerance

15:10 – 15:25      **Toyoshi Yanagihara** (Young speaker; Kyushu University)  
Identification of a novel molecule essential for Aire expression and self-tolerance

15:25 – 15:40      **Kensuke Takada** (Young speaker; Tokushima University)  
Thymoproteasome-dependent MHC class I-associated peptide motifs contribute to positive selection of CD8 T cells

15:40 – 16:10      **Coffee break**

### **Session 3: Leukocyte migration**

*Chaired by Jens Stein*

- 16:10 – 16:25      **Sachiko Kamakura** (Young speaker; Kyushu University)  
Noncanonical G protein signaling regulates neutrophil chemotaxis via the cell polarity protein mInsc
- 16:25 – 17:00      **Michael Sixt** (Institute of Science and Technology, Austria)  
Cytoskeletal control of leukocyte navigation
- 17:00 – 17:30      **Jens Stein** (University of Bern, Switzerland)  
Intravital imaging of naive and effector/memory T cell migration in lymphoid and non-lymphoid tissues
- 17:30 – 18:00      **Tatsuo Kinashi** (Kansai medical University)  
Regulation of lymphocyte migration and immunological synapse formation through Rap1 signaling
- 19:00 –              **Dinner party** (by invitation only)
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<Saturday, November 8, 2014>

### **Session 4: Activation and regulation of leukocytes**

*Chaired by Kenzaburo Tani*

- 10:00 – 10:20      **Yoshinori Fukui** (Kyushu University)  
Critical roles of DOCK family proteins in migration and activation of leukocytes
- 10:20 – 10:50      **Hajime Karasuyama** (Tokyo Medical and Dental University)  
Basophils have emerged as a key player in immunity
- 10:50 – 11:10      **Sho Yamasaki** (Kyushu University)  
Immune regulation through C-type lectin receptors
- 11:10 – 11:25      **Markus Ackerknecht** (Young speaker; Bern University)  
Dual role of DOCK2 for efficient CD4<sup>+</sup> T cell – dendritic cell interactions in vivo
- 11:25 – 11:55      **Akihiko Yoshimura** (Keio University)  
Molecular basis for the induction of regulatory T cells by gram-positive bacteria and TGF- $\beta$  in the intestine

11:55 – 12:15      **Group photos**

12:15 – 14:00      **Lunch and poster presentation by young researchers**

**Session 5: Inflammation and diseases**

*Chaired by Sho Yamasaki*

14:00 – 14:35      **Paul Kubes** (University of Calgary, Canada)  
The dynamic immune response in sterile inflammation

14:35 – 14:50      **Hirokazu Nakatsumi** (Young speaker; Kyushu University)  
Nutrition signal induces inflammation via the  
mTOR-FOXK1-CCL2 pathway

14:50 – 15:20      **Naoko Ohtani** (Tokyo University of Science)  
Obesity-induced gut microbial metabolite promotes liver cancer  
through senescence-associated secretome

15:20 – 15:35      **Masatsugu Oh-hora** (Young speaker; Kyushu University)  
Calcium signaling in chronic inflammation

15:35 – 16:05      Shigeo Koyasu (RIKEN Center for IMS)  
Role of natural helper cells, a member of group 2 innate lymphoid  
cells (ILC2), in allergic inflammation

16:05 – 16:35      **Coffee break**

**Session 6: Special lecture**

*Chaired by Takehiko Sasazuki*

16:35 – 17:20      **Mark M. Davis** (Stanford University, USA)

17:20 – 17:30      **Closing remarks**  
**Takehiko Sasazuki** (Kyushu University)

