



The 24th Hot Spring Harbor International Symposium

Recent Advances in Immunology and Inflammation 2014

主催:九州大学 生体防御医学研究所 共催:全国共同利用「共同研究拠点」参照署生体防御システム研究拠点」 戦略的国際科学技術協力推進事業 「日本ースイス研究交流」 新学術領域 「免疫四次元空間ダイナミクス」

目時:2014年11月7日(金)/8日(土)

場所:福岡市東区馬出3-1-1 九州大学病院キャンパス コラボステーション | 2F視聴覚ホール

Invited Speakers

Graham Anderson (University of Birmingham, UK)

Mark M. Davis (Stanford University School of Medicine, USA).

Paul Kubes (University of Calgary, Canada)

Michael Sixt (IST Austria, Austria)

Jens V. Stein (University of Bern, Switzerland)

Yoko Hamazaki (Kyoto University)

Hajime Karasuyama (Tokyo Medical and Dental University)

Yoshio Katayama (Kobe University)

Tatsuo Kinashi (Kansai Medical University)

Shigeo Koyasu (RIKEN Center for IMS)

Takashi Nagasawa (Kyoto University)

Naoko Ohtani (Tokyo University of Science)

Akihiko Yoshimura (Keio University)

Session

11/7 (金) 12:30-18:30

- · Hematopoietic stem cell and their niche
- · Thymic microenvironment
- · Leukocyte migration

11/8 (土) 10:00-17:00

- · Activation and regulation of leukocytes
- · Inflammation and diseases
- . Special Lecture by Dr. Mark M. Davis

Program

プログラムはこちらをご覧ください http://www.bioreg.kyushu-u.ac.jp/iden/symposiu





アクセス方法

空 路 福岡空港→(地下鉄空港線)→「中洲川陰駅」、貝塚方面へ乗換→(地下鉄箱崎線)→「原出九大鉄院前駅」で下中

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15:40 - 16:10

<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 - 13:00Takashi Nagasawa (Kyoto University) The microenvironmental niches for hematopoietic stem and progenitor cells in bone marrow 13:00 - 13:25Yuya Kunisaki (Kyushu University) NG2⁺ arteriolar pericytes form niches for dormant hematopoietic stem cells 13:25 - 13:50Yoshio Katayama (Kobe University) Lympho-hematopoietic microenvironment regulated by inter-organ communication 13:50 - 14:05Shoichiro 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 - 15:10Yoko Hamazaki (Kyoto University) Thymic medullary epithelial stem cells ensuring lifelong central T-cell tolerance 15:10 - 15:25Toyoshi 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

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)

<Saturday, November 8, 2014>

Session 4: Activation and regulation of leukocytes

Chaired by Kenzaburo Tani

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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 ⁺ 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- β in the intestine

11:55 – 12:15	Group photos
12:15 – 14:00	Lunch and poster presentation by young researchers
Session 5: Inflam	mation and diseases
Session 3. Innum	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)



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Date: November 7-8, 2014

Venue: Collabostation I, 2F Hall Kyushu University.