

International Symposium CUID201

Towards Comprehensive Understanding of **Immune Dynamism**

Date: November 18-20, 2013

Venue: Icho Kaikan & Taniguchi Memorial Hall

Osaka University, Suita, Osaka, Japan

http://akira-pj.lserp.osaka-u.ac.jp/TCUID2013/

Registration Fee: Free

Registration Deadline: October 15, 2013

Poster Submission Deadline: October 4, 2013



TCUID 2013 calls for papers for poster presentations at the Poster Session on November 19, 2013. Applicants are requested to submit an abstract online at the symposium website by October 4, 2013.

The abstracts will be reviewed by the TCUID 2013 Program Committee, and 30 posters will be selected. A notification of the result will be sent to the presenting authors by e-mail by October 10, 2013.

How to prepare or poster presentations will be announced on the website. Young scientists are eligible for being a presenting author, and only presenting authors are allowed to sign up for abstract submissions.

Organized by FIRST Program: AKIRA Project

Funding Program for World-Leading Innovative R&D on Science and Technology "Comprehensive understanding of immune dynamism: toward manipulation of immune responses" (Core Researcher: Prof. Shizuo AKIRA, Osaka University)

Co-organized by WPI-IFReC

WPI-Immunology Frontier Research Center, Osaka University

Supported by

Cabinet Office, Government of Japan (pending) Japan Society for the Promotion of Science (JSPS) (pending)

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Scope

Studying the immune dynamics is important for understanding and controlling immune functions. This requires combining conventional immunology and new techniques.

TCUID 2013 aims to advance our comprehensive understanding of the dynamic mechanisms regulating innate and acquired immunity through presentations and discussions of research findings achieved by using a variety of techniques including imaging and systems biology. There will be a particular focus on real-time spatiotemporal observations of immune cellular and molecular dynamics and reactions by world-leading researchers with expectation of significantly advancing immunology.

This symposium is also held as the final symposium of the research project "Comprehensive understanding of immune dynamism: toward manipulation of immune responses" [Core Researcher: Prof. Shizuo AKIRA, Osaka University] (AKIRA Project) selected for the "Funding Program for World-Leading Innovative R&D on Science and Technology (FIRST Program)" by the Council for Science and Technology Policy (chaired by the Prime Minister of Japan) of the Cabinet Office, Government of Japan.

The AKIRA Project produced a lot of fruitful results from the intensive research in the past 4 years, including interdisciplinary research between immunology, imaging, structural biology and systems biology.

In this symposium, 6 speakers from the AKIRA Project, 2 speakers from WPI-IFReC, and 9 invited speakers from abroad will present their outstanding integrated research regarding comprehensive understanding of immune dynamism.

Program

15:35-15:50

15:50-17:00

17:00-18:20

18:30-20:30

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Monday, November 18, 2013 at Taniguchi Memorial Hall		Wednesday, November 20, 2013 at Icho Kaikan	
13:45-14:30 14:30-17:30	Registration Young Researchers' Workshop ovember 19, 2013 at Icho Kaikan	9:00-10:40	Session 5: Biological Imaging 1 Masaru ISHII (Osaka University, Japan) Intravital Multiphoton Imaging Revealing Bone
8:45- 9:30 9:30- 9:40 9:40- 9:50 9:50-11:50	Registration Opening Remarks Guest's Speech Session 1: Immunology 1 Myung-Shik LEE (Sungkyunkwan Medical Samsung Seoul Hospital, Korea) Role of Paneth Cells and Akkermansia in Metaboinflammation of Obesity Thirumala-Devi KANNEGANTI (St. Jude Children's Research Hospital, USA) Regulators of Inflammatory Responses Kensuke MIYAKE (The University of Tokyo, Japan) Mechanisms Regulating Nucleic Acid Sensing Toll-like Receptors Lunch Break Session 2: Immunology 2 Masahiro YAMAMOTO (Osaka University, Japan)	10:40-10:55 10:55-12:05 12:05-13:20 13:20-14:10	and Immune Cell Dynamics in Vivo Joji FUJISAKI (Columbia University, USA) In Vivo Imaging of Immune Privilege of the Hematopoietic Stem Cell Niche Nicholas I. SMITH (Osaka University, Japan) Label Free Measurement of Inflammasome Induction and RNA Regulation Pathways Coffee Break Session 6: Biological Imaging 2 Kazuya KIKUCHI (Osaka University, Japan) Design Strategy of in Vivo Imaging Probes with Tunable Chemical Switches Erik M. SHAPIRO (Michigan State University, USA) Monitoring Immune Cell Infiltration Using MRI-based Cell Tracking Lunch Break Special Lecture: Immunology Michael RETH (The University of Freiburg, Max Planck Institute of Immunobiology and Epigenetics, Germany)
14:10-14:25 14:25-15:35	Selective and Strain-specific NFAT4 Activation by the Toxoplasma gondii Polymorphic Dense Granule Protein GRA6 Cevayir COBAN (Osaka University, Japan) A New Gateway to Cerebral Malaria Pathogenesis Coffee Break 5:35 Session 3: Systems Biology Kenta NAKAI (The University of Tokyo, Japan) Analyses of Transcriptional Changes over Time in Stimulated Dendritic Cells through Systems Biology Grégoire ALTAN-BONNET (Memorial Sloan-Kettering Cancer Center, USA) From Local Signals to Global Responses:	Mapping the Lymphocyte Surface: a Nanoscale Study 14:10-14:25 Coffee Break Session 7: Immunology 3 Mark S. SUNDRUD (The Scripps Research Institute, Florida, USA) Identifying and Regulating Pathogenic T Cell Subsets in Autoimmunity Shizuo AKIRA (Osaka University, Japan) NLRP3 Inflammasome and Microtubule Acetylation 15:35-15:45 Closing Remarks	
			*The program is subject to change.
	Self-organization of T Lymphocyte Activation		

through Cytokine Communications

Structural Biology of Innate Immunity

Fuyuhiko INAGAKI (Hokkaido University, Japan)

(Sanford-Burnham Medical Research Institute, USA)

Mechanism and Regulation of Cell Signaling by

Session 4: Structural Biology

Coffee Break

Stefan J. RIEDL

Death Domains

Poster Session

Reception



Icho Kaikan, Osaka University