

International Symposium

TCUID2013

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/

TCUID2013 GO!

Registration Fee: Free

Registration Deadline: October 15, 2013
Poster Submission Deadline: October 4, 2013



Call for Papers for Poster Presentations

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)



TCUID 2013 Office

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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			
	ovember 18, 2013 at Taniguchi Memorial Hall	Wednesday,	November 20, 2013 at Icho Kaikan
13:45-14:30	Registration	9:00-10:40	Session 5: Biological Imaging 1
14:30-17:30	Young Researchers' Workshop		Masaru ISHII (Osaka University, Japan) Intravital Multiphoton Imaging Revealing Bone
Tuesday, November 19, 2013 at Icho Kaikan			and Immune Cell Dynamics in Vivo Joji FUJISAKI (Columbia University, USA)
8:45- 9:30	Registration		In Vivo Imaging of Immune Privilege of the
9:30- 9:40	Opening Remarks		Hematopoietic Stem Cell Niche
9:40- 9:50	Guest's Speech		Nicholas I. SMITH (Osaka University, Japan)
9:50-11:50	Session 1: Immunology 1		Label Free Measurement of Inflammasome
	Myung-Shik LEE		Induction and RNA Regulation Pathways
	(Sungkyunkwan Medical Samsung Seoul Hospital,	10:40-10:55	Coffee Break
	Korea)	10:55-12:05	Session 6: Biological Imaging 2
	Role of Paneth Cells and Akkermansia in		Kazuya KIKUCHI (Osaka University, Japan)
	Metaboinflammation of Obesity		Design Strategy of in Vivo Imaging Probes with
	Thirumala-Devi KANNEGANTI		Tunable Chemical Switches
	(St. Jude Children's Research Hospital, USA) Regulators of Inflammatory Responses		Erik M. SHAPIRO (Michigan State University, USA)
	Kensuke MIYAKE (The University of Tokyo, Japan)		Monitoring Immune Cell Infiltration Using
	Mechanisms Regulating Nucleic Acid Sensing	10.05.10.00	MRI-based Cell Tracking
	Toll-like Receptors	12:05-13:20	Lunch Break
11:50-13:10	Lunch Break	13:20-14:10	Special Lecture: Immunology Michael RETH (The University of Freiburg,
13:10-14:10	Session 2: Immunology 2		Max Planck Institute of Immunobiology and
	Masahiro YAMAMOTO (Osaka University, Japan)		Epigenetics, Germany)
	Selective and Strain-specific NFAT4 Activation by		Mapping the Lymphocyte Surface: a Nanoscale
	the Toxoplasma gondii Polymorphic Dense		Study
	Granule Protein GRA6	14:10-14:25	Coffee Break
	Cevayir COBAN (Osaka University, Japan)	14:25-15:35	Session 7: Immunology 3
	A New Gateway to Cerebral Malaria Pathogenesis		Mark S. SUNDRUD
14:10-14:25	Coffee Break		(The Scripps Research Institute, Florida, USA)
14:25-15:35	Session 3: Systems Biology		Identifying and Regulating Pathogenic T Cell
	Kenta NAKAI (The University of Tokyo, Japan)		Subsets in Autoimmunity
	Analyses of Transcriptional Changes over Time in		Shizuo AKIRA (Osaka University, Japan)
	Stimulated Dendritic Cells through Systems		NLRP3 Inflammasome and Microtubule
	Biology Grégoire ALTAN-BONNET		Acetylation
	(Memorial Sloan-Kettering Cancer Center, USA)	15:35-15:45	Closing Remarks
	From Local Signals to Global Responses:		*The program is subject to change.
	Self-organization of T Lymphocyte Activation		
	through Cytokine Communications		
15:35-15:50	Coffee Break		
15:50-17:00	Session 4: Structural Biology		
	Fuyuhiko INAGAKI (Hokkaido University, Japan)		
	Structural Biology of Innate Immunity		
	Stefan J. RIEDL		THE RESERVE STREET, ST
	(Sanford-Burnham Medical Research Institute, USA)		

Mechanism and Regulation of Cell Signaling by

Death Domains

Poster Session

Reception

17:00-18:20

18:30-20:30

