

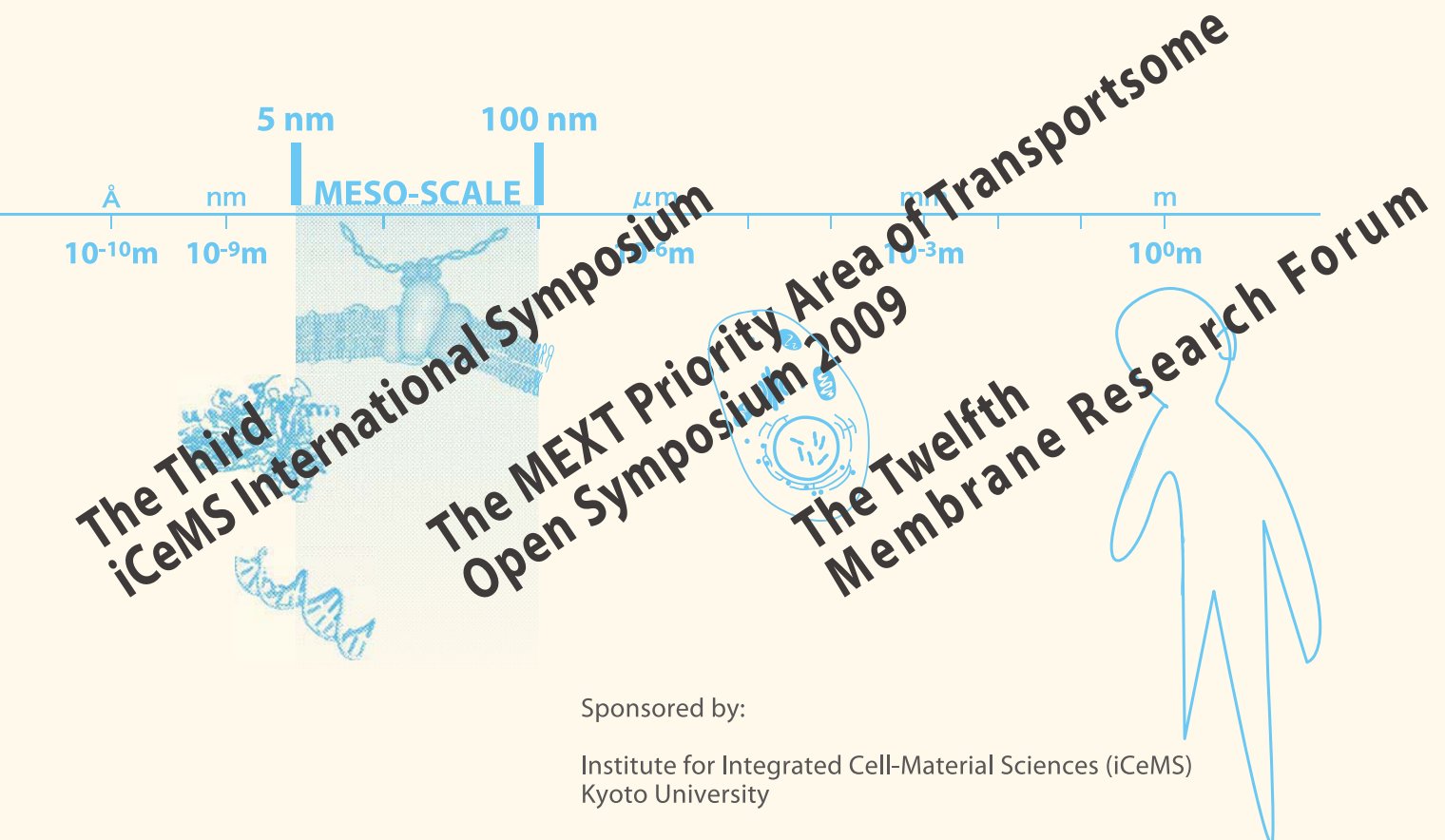
27-28

January, 2009

Hotel Fujita Kyoto

Symposium on the **MESO CONTROL**

of the cells, by the cells, for the cells
--- featuring transportsomes ---



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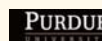
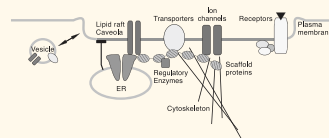
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Kyoto University

Grant-in-Aid for Scientific Research on Priority Areas to "Transportsomes"
from the Ministry of Education, Culture, Sport,
Science and Technology of Japan (MEXT)

Membrane Mechanisms Project, ICORP
Japan Science and Technology Agency (JST)

Sokabe Cell-Mechanosensing Project, SORST, JST

Purdue University Center for Basic and Applied Membrane
Sciences (PUBAMS) and Department of Physics, Purdue University



Message from Director of the iCeMS

January 27, 2009

On behalf of all my colleagues at the iCeMS, Institute for Integrated Cell-Material Sciences at Kyoto University, I welcome you to the Third iCeMS International Symposium.

iCeMS is founded as a response to the Japanese government initiative of World Premier International Research Centers (WPI program). The initiative is for establishing globally visible research centers here in Japan, which will attract top-level researchers from around the globe, particularly talented young scientists who will become world leaders in the future. The proposal to establish iCeMS was funded as one of the five such centers throughout Japan. iCeMS places a strong emphasis on international collaborations, and the iCeMS international symposium, to be held in a series, is one of our major means to develop our ties with international scientific communities.

We at the iCeMS strive to develop the fundamental understanding and control of molecular complexes in the meso-scale of 5-100 nm (meso-control), as the cell appeared to develop them through evolution. We consider these efforts critical for creating the science and technology of the next generation, and we intend to do these, with a strong focus on pluripotent stem (ES and iPS) cells. For this purpose, we make cross-disciplinary approaches to create: 1) new chemistry and physics of meso-space, 2) cellular meso-biophysics, and 3) stem-cell control by meso-engineering. We are holding this Third iCeMS Symposium on "MESO CONTROL of the cells, by the cells, for the cells, featuring membrane transportsomes", as an important part of our effort for understanding meso-scale events. It is held in collaboration with the team of Prof. Y. Kanai of Osaka University supported by Grant-in-Aid for Scientific Research on Priority Areas from the MEXT, the Executive Committee of the International Membrane Research Forum, two projects of the Japan Science and Technology Agency, and Purdue University Center for Basic and Applied Membrane Sciences (PUBAMS), one of our partner institutions. I hope that the subject matters discussed here will provide good examples for interesting and useful meso-scale molecular interactions that control cellular functions.

Thank you very much again for joining us at the Third iCeMS International Symposium, co-held as The MEXT Priority Area of Transportsome Open Symposium 2009 as well as the Twelfth International Membrane Research Forum. I hope you will enjoy this meeting.

Norio Nakatsuji, D.Sc.
Director and Professor
Institute for Integrated Cell-Material Sciences (iCeMS)
Kyoto University

Welcome to
Third iCeMS International Symposium,
The MEXT Priority Area of Transportsome
Open Symposium 2009, and
Twelfth International Membrane Research Forum

January 27, 2009

We would like to welcome everybody who is participating in this symposium, particularly the speakers from abroad. It is our great pleasure to report that many scientists expressed considerable interest in this forum, and volunteer to present their research results.

This symposium is an attempt to bring together scientists from different research backgrounds, who are working on meso-scale complexes and interactions, particularly those in/on biological membranes. Here, the meso-scale means the space scale between 5 and 100 nm, where key molecular complexes and interactions take place in the cell. These meso-structures, including protein complexes and domains in the meso-scale in/on biological membranes, are important for membrane functions, such as transport of ions and molecules across the membrane and the signal transduction, and therefore have been termed "transportsomes" from the view point of their function by a MEXT program project. Such meso-scale transportsomes are particularly amenable to the studies with the novel nanotechnologies currently being developed, such as fluorescent nano-crystals and single-molecule tracking, and novel electron microscopy techniques. Meanwhile, the atomic/molecular events occurring in the meso-scale have not been well explored in physical/chemical sciences thus far, and therefore findings made in meso-scale biological complexes would greatly contribute to advancing meso-space sciences and technologies.

With this forum, we are trying to provide a common platform for scientists working on various aspects of meso-scale structures and interactions. The aim is "synthesis" rather than specialization. We believe that the time is ripe for combining our forces together to elucidate meso-scale interactions in/on the membrane.

We hope that you will enjoy this meeting and mingle with other scientists having very different backgrounds.

Organizers

iCeMS

Yoshikatsu Kanai, Hiroshi Takeshima, Yasuo Mori, and Aki Kusumi

The MEXT Grant-in-Aid for Scientific Research
on Priority Areas, "Transportsomes"

Jiro Usukura, Masahiro Sokabe, and Aki Kusumi

Executive Board for the Membrane Research Forum

Ken Ritchie

Department of Physics, Purdue University and
Purdue Univ. Center for Basic and Applied Membrane Sciences (PUBAMS)

January 27 8:45 - 18:45

Opening

8:45 - 9:00

Norio Nakatsuji iCeMS (Director)
and Institute for Frontier Medical Sciences
Kyoto University

Aki Kusumi iCeMS and Institute for Frontier Medical Sciences
Kyoto University

Session 1-1: Systems Nano/Meso-Biology of Cellular Signaling 1

9:00 - 10:10

Chair: Takahiro Fujiwara

John F. Hancock Dept. of Integrative Biology and Pharmacology
University of Texas Health Science Center at Houston
Ras nanoclusters:
combining digital and analog signal transmission

Khuloud Jaqaman Laboratory for Computational Cell Biology
Dept. of Cell Biology
The Scripps Research Institute
One in one thousand: capturing receptor oligomerization
by single molecule tracking

Coffee Break 10:10 - 10:30

Session 1-2: Systems Nano/Meso-Biology of Cellular Signaling 2

10:30 - 11:40

Chair: Kenichi Suzuki

Takashi Saito Laboratory for Cell Signaling
RIKEN Research Center for Allergy and Immunology
Dynamic assembly of signaling unit for antigen recognition
and activation of immune cells

Jay T. Groves Dept. of Chemistry
University of California Berkeley
Mechanical and spatial regulation of signal transduction
in the cell membrane

Lunch 11:40 - 13:00

**Session 1-3: Systems Nano/Meso-Biology
of Cellular Signaling 3**

13:00 - 14:10

Chair: Konstantin Agladze

Antoine Triller

Dept. of Biology
Ecole Normale Supérieure

The postsynaptic membrane as statistical nanodevice:
reactivity and plasticity

Arkady Pertsov

Dept. of Pharmacology,
State University of
New York Upstate Medical University

Fluorescent imaging of electrical activity in excitable cells:
spiral waves and cardiac arrhythmias

Coffee Break 14:10 - 14:30

**Session 2: Protein Assembly
in Presynaptic Mesostructure Active Zones**

14:30 - 16:15

Chair: Yasuo Mori
Toshihisa Otsuka

Yasuo Mori

Dept. of Synthetic and Biological Chemistry Graduate
School of Engineering, Kyoto University

Calcium channelsome in excitation-secretion coupling

Shigeo Takamori

Center for Brain Integration Research,
Tokyo Medical and Dental University

VGLUTs: 'exciting' times for glutamatergic research?

Toshihisa Otsuka

Dept. of Clinical and Molecular Pathology,
Graduate School of Medicine,
University of Toyama

Molecular structure and function of the presynaptic active zone

Coffee Break 16:15 - 16:35

**Session 3: Nano/Meso-Physics/Chemistry Approaches for
Understanding Cell Surface Functions**

16:35 - 18:55

Chair: Masahiro Sokabe
Jiro Usukura

Makoto Kiso

iCeMS, Kyoto University
Faculty of Applied Biological Sciences
Gifu University

Synthetic ganglioside probes:
versatile tools for elucidation of carbohydrate functions

Motonari Uesugi

iCeMS
Kyoto University

Small molecule tools for cell biology

Hideo Akutsu

Institute for Protein Research
Osaka University

Molecular architecture of a photon-capturing device, Chlorosome

John Heuser

Washington University and
iCeMS, Kyoto University

EM demonstration of plasma membrane wounding and
healing, as marked by sonoporation-induced uptake of HRP

19:30 - 22:30 Reception

January 28

8:45 - 18:55

**Session 4-1: Muscle Sarcoplasmic Reticulum
as a Paradigm for Nano/Meso-Investigations 1**

8:45 - 9:55

Chair: Jianjie Ma

Hiroshi Takeshima

Dept. of Biological Chemistry
Graduate School of Pharmaceutical Sciences
Kyoto University

Molecular components supporting Ca^{2+} release
in muscle cells

Rebecca Sitsapesan

Dept. of Physiology and Pharmacology,
University of Bristol Medical School

Calmodulin regulation of RyR2 and Ca^{2+} -release
in cardiac muscle

Coffee Break 9:55 - 10:15

**Session 4-2: Muscle Sarcoplasmic Reticulum
as a Paradigm for Nano/Meso-Investigations 2**

10:15 - 11:25

Chair: Hiroshi Takeshima

Hector Valdivia

Dept. of Physiology
University of Wisconsin, Madison, Medical School

Mechanisms of ryanodine receptor-initiated
Ventricular tachycardia

Jianjie Ma

Dept. of Physiology and Biophysics
Robert Wood Johnson Medical School
University of Medicine and Dentistry of New Jersey

MG53-mediated membrane repair in muscle health and diseases

Lunch 11:25 - 13:30

**Session 5: Applications of Single-Molecule Tracking
for Cell Biophysics**

13:30 - 14:40

Chair: Yoshie Harada

Hideo Higuchi

Dept. of Physics
Graduate School of Science
The University of Tokyo

Motility of single molecules of dynein, kinesin, and myosin
in vitro and in cells

Ken P. Ritchie

Dept. of Physics and
Purdue University Center for Basic and Applied
Membrane Sciences (PUBAMS):
Kyoto University WPI-Partner

Imaging protein diffusion and interactions
in the inner and outer membranes of E. coli

Coffee Break 14:40 - 15:00

**Session 6: Nanoparticles and Nanostructures:
Their Applications to Biomedical Problems**

15:00 - 16:45

Chair: Mikio Takano

Mark T. Swihart

Dept. of Chemical and Biological Engineering
University at Buffalo
The State University of New York

Biocompatible silicon quantum dots for biophotonics

Dai-Wen Pang

Dept. of Chemistry
Wuhan University

Fluorescent semiconductor quantum dot-based
nanobioprobes for biotracking and bioimaging

Yong Chen

iCeMS, Kyoto University
Ecole Normale Supérieure

Cell patterning at single cell level in microfluidic chambers

Coffee and Snack

16:45 - 17:05

**Session 7: Membrane Transporters:
from Crystal Structure to Cellular Function**

17:05 - 18:50

Chair: Yoshikatsu Kanai
Kazumitsu Ueda

Jeff Abramson

Dept. of Physiology
David Geffen School of Medicine
University of California Los Angeles

The crystal structure of a sodium galactose transporter
reveals mechanistic insights into Na⁺/sugar symport

Yoshinori Moriyama

Laboratory of Membrane Biochemistry
Graduate School of Medicine, Dentistry,
and Pharmaceutical Sciences
Okayama University

Transport mechanisms of
vesicular neurotransmitter transporters

Yoshikatsu Kanai

Division of Bio-system Pharmacology
Dept. of Pharmacology
Graduate School of Medicine
Osaka University

Transportsomes in cellular function

Closing

John Heuser

Washington University and
iCeMS, Kyoto University

Yoshikatsu Kanai

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