

Day 1: January 13, 2014 (Monday)

12:30-12:45 Registration

12:45-13:00 Opening Remarks

Kazuhiko Ishihara, The University of Tokyo

Moderators: *Hsing-Wen Sun*, and *Kohsuke Gonda*

13:00-13:40 Opening Remark and Plenary Lecture (PL1)

Chung-Yuan Mou, National Taiwan University

Nonviral Cell Labeling and Differentiation Agent for Induced Pluripotent Stem Cells Based on Mesoporous Silica Nanoparticles

13:40-14:20 Plenary Lecture (PL2)

Masahide Takahashi, Nagoya University

Roles of the Akt substrate Girdin in cancer progression and angiogenesis

14:20-14:50 ***Kohsuke Gonda***, Tohoku University

High accuracy imaging of cancer and peripheral artery disease with nanoparticles

14:50-15:15 ***Hsing-Wen Sung***, National Tsing Hua University

Multifunctional Nanoparticles for Oral Protein Drug Delivery

15:15-15:30 Coffee Break

Moderators: *Peilin Chen*, and *Atsushi Maruyama*

15:30-15:45 ***Chia-Ning Shen***, Academia Sinica

Reprogramming of adult hepatocytes to bipotential progenitors and insulin-producing clusters in spheroid cultures utilizing polyvinyl alcohol substrates

15:45-16:00 ***Dueng-Yuan Hueng***, National Defense Medical Center

Effect of radioactive gold nanoparticle (¹⁹⁸Au-GNP) on brain glioma

16:00-16:30	<p>Atsushi Maruyama, Tokyo Institute of Technology</p> <p>Enhancement of DNzyme activity with cationic comb-type copolymer for nucleic acid detection</p>
16:30-16:45	<p>Peilin Chen, Academia Sinica</p> <p>Cell Sensing, Sorting and Manipulation by Advanced Nanotechnology</p>
16:45-17:00	<p>Yi-Chung Tung, Academia Sinica</p> <p>Study cellular responses under chemical and oxygen gradient combinations using microfluidic cell culture devices</p>
17:00-17:30	<p>Hideo Higuchi, The University of Tokyo</p> <p>Biophysics toward noninvasive imaging</p>
17:30-18:00	<p>Nobuhiko Yui, Tokyo Medical and Dental University</p> <p>Reduction of endosomal cholesterol storage using cytoleavable polyrotaxanes for treatment of lysosomal storage disorders</p>
18:30-	Banquet

Day 2: January 14, 2014 (Tuesday)

Moderators: Joseph Jen-Tse Huan, and Hiroo Iwata

- 10:00-10:30 Plenary Lecture (PL3)
Patrik C. H. Hsieh, National Cheng Kung University & Hospital, Academia Sinica
Cardiovascular Nanomedicine
- 10:30 -11:00 *Hiroo Iwata*, Kyoto University
Introduction of antioxidant-loaded liposomes into endothelial cell surfaces
through DNA hybridization
- 11:00-11:15 *Shuk-Man Ka*, National Defense Medical Center
Validation of reno-protective components by a versatile platform for chronic
kidney disease for drug development
- 11:15-11:30 *Joseph Jen-Tse Huang*, Academia Sinica
Toward the membrane-disrupting and seeding properties of the TDP-43 peptides
in neurodegenerative diseases
- 11:30-11:45 *Chau-Hwang Lee*, Academia Sinica, National Yang-Ming University
Cancer Cell Responses to the Stimulations from Microenvironment in
Microfluidic Devices
- 11:45-12:15 *Norio Fukuda*, The Jikei University School of Medicine
Real-time imaging of single sarcomeres in the mouse heart in vivo
- 12:15-13:30 Lunch

Moderators: Andrew Miller, and Kazuhiko Ishihara

- 13:30-14:00 Plenary Lecture (PL4)
Fu-Tong Liu, Academia Sinica
Galectins and intracellular vesicles
- 14:00-14:30 *Kazuhiko Ishihara*, The University of Tokyo
Cell membrane-permeable and cytocompatible phospholipid polymer
nanoprobes conjugated with molecular beacons

14:30-14:45	<i>Shann-Hui Hsu</i> , National Taiwan University Nanoparticles for efficient labeling of stem cells
14:45-15:00	Coffee & Poster
15:15-15:45	Plenary Lecture (PL5) <i>Keng-Liang Ou</i> , Taipei Medical University Development of Antibacterial Nanostructured Composite Films for Minimally Invasive Surgery Applications: Microstructural Characteristics, Biocompatibility, Antibacterial Mechanisms and an Evaluation of Lateral Thermal Injury
15:45-16:15	<i>Jun Miyake</i> , Osaka University Towards molecular imaging in multiscale with using fluorescent nano-probes excited by both NIR light and electron beam
16:15-16:45	<i>Andrew Miller</i> , King's College London Lipid-based nanoparticles and the future of RNAi therapeutics
16:45-17:15	<i>Atsushi Natsume</i> , Nagoya University School of Medicine Whole exome sequencing reveals the landscape of gene mutations and evolution in low-grade glioma
17:15	Closing Remarks <i>Atsushi Natsume</i> , Nagoya University School of Medicine