

The 3rd Japan-Taiwan Symposium on Nanomedicine

Main hall, Kyoto International Community House

Day 1: March 8, 2012 (Thursday) *Joint symposium with “Nanomedicine Molecular Science”*

9:00-9:20 Registration

9:20-9:25 Opening Remarks

Hiroo Iwata

Director Institute for Frontier Medical Sciences, Kyoto University

Moderator: **Chung-Hsuan Chen**

9:25-10:10 Plenary Lecture (PL1)

Kazuhiko Ishihara, The University of Tokyo

Phospholipid Polymer Nanoparticles in Nanomedicine Research

10:10-10:35 ***Peilin Chen***, Academia Sinica

Exploring the biointerfaces by advanced nanotechnology

Moderator: **Kazuhiko Ishihara**

10:35-11:20 Plenary Lecture (PL2)

Chia-Fu Chou, Academia Sinica

Bacterial cytoskeletal oscillators studied by multi-color fluorescence imaging and nanofluidic confinement

11:20-12:05 Invited Lecture (IL1)

Hidetoshi Kotera, Kyoto University

Bio-nano Platform for Nano-medicine

12:05-13:30 Lunch

Moderator: **Chia-Fu Chou**

13:30-14:15 Plenary Lecture (PL3)

Hideo Higuchi, The University of Tokyo

Single molecule biophysics in a in vivo and in vitro

14:15-14:40 ***Teruyuki Kondo***, Kyoto University

Synthesis and functional evaluation of a dendrimer-amine coordinated

Gd-MRI contrast agent

14:40-15:00 Coffee Break

Moderator: **Atsushi Natsume**

15:00-15:45 Invited lecture (IL2)

Andrew David Miller, King's College London

Synthetic, self-assembly lipid-based nanoparticles deliver on therapy, molecular imaging and theranostics

15:45-16:10 **Chia-Hsien Hsu**, National Health Research Institutes

A microfluidic device for 3-dimensional culture of mammalian cells

Moderator: **Hideo Higuchi**

16:10-16:55 Plenary Lecture (PL4)

Hiroo Iwata, Kyoto University

Cell adhesive

16:55-17:20 **Wei-Hau Chang**, Academia Sinica

3D cryo-electron microscopy of mammalian RNA polymerase II complexes at nano-meter resolution reveals steric mechanism of transcription regulation

17:20-17:45 **Gou-Jen Wang**, National Chung-Hsing University

An electrochemical impedimetric biosensor based on a nanostructured polycarbonate (PC) substrate

19:00- Banquet

Day 2: March 9, 2012 (Friday)

Moderator: **Koichi Kato**

- 9:30-10:15 Plenary Lecture (PL5)
Feng-Huei Lin, National Health Research Institutes
The fabrication, characterization, and in vitro hyperthermia test of the new dicalcium phosphate dehydrate-modified biomagnetic nanoparticles (MDCPD)
- 10:15-10:35 *Chiung Wen Kuo*, Academia Sinica
Manipulation of the fate of stem cells by advanced material Engineering

Moderator: **Feng-Huei Lin**

- 10:35-10:55 *Naoki Tanaka*, Kyoto Institute of Technology
Preventing neurodegenerative disorders by peptide nanofiber with chaperone-like activity
- 10:55-11:15 *Chih-Wei Chou*, China Medical University
Eco-friendly facile controlled synthesis of high biocompatibility naturally polymer-coated gold nanocrystals and their applications
- 11:15-11:35 *Yusuke Arima*, Kyoto University
Effect of surface functional groups on adsorption of cell adhesive proteins and cell adhesion using self-assembled monolayers
- 11:35-15:30 Lunch and small excursion

Moderator: **Naoki Tanaka**

- 15:30-16:15 Plenary Lecture (PL6)
Tsuneo Urisu, Nagoya University
Fabrication of incubation type planar patch clamp biosensor and characterization by laser-gated ion-channel protein
- 16:15-16:35 *Guo-Chung Dong*, National Health Research Institutes
High throughput screening of traditional chinese medicine by using nano-surfaces and immobilized proteins

Moderator: **Tsuneo Urisu**

- 16:35-17:20 Plenary Lecture (PL7)
Yuh-Lin Wang, Academia Sinica
Functionalized arrays of Raman-enhancing nanoparticles for
capture and culture-free analysis of bacteria in human blood
- 17:20-17:40 *Koichi Kato*, Hiroshima University
Antibody microarrays for stem cell immunophenotyping
- 17:40-17:50 Closing Remarks
Chung-Hsuan Chen
Director Genomic Research Center, Academia Sinica
- Farewell party