iCeMS-RIKEN Joint Symposium

Hiroshi Abe/Hokkaido U

Jun Ando/Osaka U

Kosuke Dodo/RIKEN

Shinya Hagihara/Nagoya U ITbM

Yuichiro Hori/Osaka U

Akihiko Nakajima/U of Tokyo

Hiroaki Onoe/U of Tokyo

Reiko Sakaguchi/iCeMS

Shin-ichi Sato/iCeMS

Yuki Sudo/Nagoya U

Kaoru Sugimura/iCeMS

Tasuku Ueno/U of Tokyo

Yuma Yamada/Hokkaido U

Takao Yamaguchi/Osaka U

Friday 7 February 2014

Kyoto Univ iCeMS Main Bldg

Jesoscopic Chemical Biology

Integrated Chemical-Physical Systems Towards Cell Control











iCeMS-RIKEN Joint Symposium on

Mesoscopic Chemical Biology

Integrated Chemical-Physical Systems Towards Cell Control

7 February 2014, Kyoto University iCeMS

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9:30-9:50	Opening Remarks Susumu Kitagawa (Director, Kyoto University/iCeMS) Shin-ichi Sato (Kyoto University/iCeMS)
	Session 1 (Chair: Hideki Hirori & Kaoru Sugimura)
9:50-10:15	Akihiko Nakajima (University of Tokyo) How Do Cells Know in Which Direction to Move in Spatiotemporal Chemical Environments?
10:15-10:40	Tasuku Ueno (University of Tokyo) A Functional Small Molecule-Based Signal Perturbation System
10:40-11:05	Kaoru Sugimura (Kyoto University/iCeMS) Toward Understanding the Integration of Mechanical and Chemical Control of Morphogenesis
11:05-11:30	Yuki Sudo (Nagoya University) Photobiophysical Chemistry: What Should We Learn from Retinal Proteins?
11:30-11:55	Jun Ando (Osaka University/ERATO) Raman Microscopy for Visualizing Small Molecules in Live Cells
11:55-13:30	Lunch
	Session 2 (Chair: Kosuke Dodo & Mizuki Watanabe)
13:30-13:55	Yuichiro Hori (Osaka University) Development of Small Molecules with Fluorogenic Switches for Visualizing Protein Function and Localization
13:55-14:20	Takao Yamaguchi (Osaka University) Potential Use of an O-Nitrobenzoxadiazole (O-NBD) Unit for Fluorogenic Protein Labeling in Living Cells
14:20-14:45	Shin-ichi Sato (Kyoto University/iCeMS) A Small-Molecule Based Method for Live-Cell Imaging of an Endogenous RNA
14:45-15:10	Reiko Sakaguchi (Kyoto University/iCeMS) Guanosine Recognition by Dissimilar tRNA Methyltransferases
15:10-15:35	Hiroshi Abe (Hokkaido University) Synthetic Biology of Circular RNA
15:35-16:00	Coffee Break
	Session 3 (Chair: Shuhei Furukawa & Ken-ichiro Kamei)
16:00-16:25	Kosuke Dodo (RIKEN/ERATO) Cell Death Control Molecules
16:25-16:50	Shinya Hagihara (Nagoya University/ITbM) Chemical Approaches Toward Controlling Plant Growth
16:50-17:15	Yuma Yamada (Hokkaido University) MITO-Porter, Liposome-Based Nano Device for Mitochondrial Control
17:15-17:40	Hiroaki Onoe (University of Tokyo/ERATO)

 ${\it Microfluidic Technology for Macroscopic Tissue \, Reconstruction}$

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17:40-17:50 Closing Remarks

 ${\bf Kosuke\ Dodo\ (RIKEN/ERATO)}$

18:00- Reception