
Eighth iCeMS International Symposium

“Meso-Control of Functional Architectures”

Tuesday 9 November 2010, 9:00 / Inamori Hall, Kyoto University

Opening

Hiroshi Sugiyama (iCeMS, Kyoto University, Japan)

Welcome Address

Norio Nakatsuji (iCeMS Director)

Session 1: DNA Architectures (9:10–12:25)

Chair: Kazumitsu Ueda, Yoshie Harada (iCeMS)

9:10–9:45 William M Shih (Biological Chemistry and Molecular Pharmacology Harvard Medical School, USA)
9:45–10:10 Akinori Kuzuya (University of Tokyo)
10:10–10:45 Hao Yan, (Chemistry and Biochemistry, Arizona State University, USA)
10:45–11:00 Coffee Break
11:00–11:25 Masayuki Endo (iCeMS)
11:25–12:00 Kurt V. Gothelf, (Center for DNA Nanotechnology, Aarhus University, Denmark)
12:00–13:30 Lunch and Complex 2 visit

Session 2: Porous Materials Towards Biological Applications (13:30–16:20)

Chair: Motonari Uesugi, Takafumi Uneno (iCeMS)

13:30–13:55 Shuhei Furukawa (iCeMS)
13:55–14:30 Russel Morris (Dept of Chemistry, University of St Andrews, UK)
14:30–15:05 Luisa De Cola (Physics and Chemistry, University of Münster, Germany)
15:05–15:30 Coffee Break
15:30–15:55 Masato Ikeda (Department of Synthetic Chemistry & Biological Chemistry, Graduate School of Engineering, Kyoto University, Japan)
15:55–16:20 Ryuji Kawano (KAST, Japan)

Reception and Poster session—Yamanouchi Hall, Kyoto University (17:00–20:00)

17:00–18:00 Poster session 1 (odd numbers: p-1, 3, 5, ...)
18:00–19:00 Poster session 2 (even numbers: p-2, 4, 6, ...)

Wednesday 10 November, 9:00 / Inamori Hall

Session 3: Meso-scale Functional Organic Architectures (9:00–10:35)

Chair: Hiroshi Imahori (iCeMS)

9:00–9:35 Roland Fischer (Dept of Chemistry and Biochemistry, Ruhr University of Bochum, Germany)
9:35–10:00 Tatiana Da Ros (University of Trieste, Italy)
10:00–10:35 Kazunari Akiyoshi (Department of Polymer Science, Graduate School of Engineering, Kyoto University, Japan)
10:35–10:50 Coffee Break

Session 4: Protein- and Other Biomolecule-Based Architectures (10:50–14:45)

Chair: Makoto Kiso (iCeMS)

10:50–11:25 Peter H. Seeberger (Department of Biomolecular systems, Max-Planck-Institute of Colloids and Interfaces, Germany)
11:25–11:50 Osamu Kanie (Chemical Glyco-Information Group, Glycotriology Project, ERATO, Riken)
11:50–13:00 Lunch
13:00–13:35 Vicki Colvin (Dept of Chemistry, Center for Biological and Environmental Nanotechnology, Rice University, USA)
13:35–14:10 Neil Branda (Dept of Chemistry, Simon Fraser University, Canada)
14:10–14:35 Coffee Break

Session 5: Nano-Meso Membrane Architectures and Functions (14:50–17:00)

(Domain structures, dynamics and signaling of cell membranes)

Chair: Akihiro Kusumi (iCeMS)

14:35–15:10 Barbara Baird (Dept of Chemistry and Chemical Biology, Cornell University, USA)
15:10–15:45 Daniel Choquet (Department of Neuroscience, University of Bordeaux, France)
15:45–16:10 Kenichi Suzuki (iCeMS)
16:15–16:45 Robert Tampe (Institute of Biochemistry, Biocenter Goethe-Univ. Frankfurt, Germany)

Plenary Lecture: Life in the middle: science's last great puzzle? (17:00–18:00)

Chair: Norio Nakatsuji (iCeMS)

17:00–18:00 Mark Haw (Dept. of Chemical and Process Engineering, Univ. of Strathclyde, UK, author of "Middle World", Macmillan Press 2007)

Banquet—Rakuyu Kaikan, Kyoto University (18:30–20:30)

Thursday 11 November, 9:00 / Inamori Hall

Session 6: Cellular Architectures and Stem Cell Fates (9:00–11:55)

Chair: Norio Nakatsuji, Mineko Kengaku (iCeMS)

(Asymmetric cell division, cell polarity and stem cell fates)

9:00–9:40 Juergen Knoblich (Department of Biochemistry, IMBA Institute of Molecular Biotechnology, Vienna, Austria)
9:40–10:20 Fiona Watt (Department of Genetics, University of Cambridge, UK)
10:20–10:35 Coffee Break

(Polarity and cell lineage determination in pre-implantation embryos)

10:35–11:15 Paul Robson (Stem cell and Developmental Biology, Genome Institute of Singapore, Singapore)
11:15–11:55 Takashi Hiragi (iCeMS/Max-Planck-Institute Münster, Germany)

Special Session: Tailoring porous solids for applications in energy related catalysis and biomedicine

Chair: Mikio Takano (iCeMS)

12:00–12:30 Ferdi Schüth (Dept of Chemistry, Max-Planck-Institut für Kohlenforschung, Germany)

Closing Susumu Kitagawa (Deputy Director of iCeMS, Kyoto University, Japan)