23rd iCeMS International Symposium

Emerging Science for Unlocking Cell's Secrets

May 30 –31, 2017 KUIAS/iCeMS Main Building, Kyoto University

(As of May 19, 2017)

Day 1 (May 30)

12:20-12:50	Registration
12:50-13:00	Opening Remarks
	Susumu Kitagawa (Director of iCeMS) Akira Ukawa (WPI Program Director, JSPS)
	ARIFA ORAWA (WF1 F10gram Director, 35F5)
	Session I: Synthetic Biology
	Chair: Jun Suzuki, Ganesh Pandian Namasivayam
13:00-13:30	Miki Ebisuya (RIKEN QBiC) Synthetic Developmental Biology
13:30-14:00	Kole T Roybal (Univ of California, San Francisco) Hacking Immune Cells to Expand Their Therapeutic Potential
14:00-14:30	Koki Kamiya (Kanagawa Institute of Industrial Science and Technology) Artificial Cell Assembly Using Bottom-Up Approach
14:30-15:00	Coffee Break
	Session II: Chemical Materials (1)
	Chair: Easan Sivaniah, Satoshi Horike
15:00-15:30	Ken-ichiro Kamei (iCeMS) Nanostructured Artificial Extracellular Matrices for Regenerative Medicine
15:30-16:00	Yu Hoshino (Kyushu Univ) Development of Protein-Mimic Nanoparticles for Effective CO₂ Separation
16:00–16:30	Shinya Hagihara (Nagoya Univ) Controlling Plant Growth and Development with Synthetic Molecules
16:30-17:00	Coffee Break
	Session III: Microscopy (1)
	Chair: Mineko Kengaku, Takahiro Fujiwara
17:00-17:30	Yasushi Okada (RIKEN QBiC / Univ of Tokyo) Development and Application of High-Speed, High-Resolution Quantitative Live Cell Imaging
17:30-18:00	Hideki Hirori (iCeMS) Strong THz Pulse Generation Technologies to Ultrafast Atomic-Scale Microscopy
18:00-	Group photo

Day 2 (May 31)

Session IV: Chemical Materials (2)

Chair: Shuhei Furukawa, Daniel Packwood

9:30-10:00	Daishi Fujita (Univ of Tokyo) Extended Goldberg Polyhedra Embodied by Self-Assembly
10:00-10:30	Masaaki Kitano (Tokyo Institute of Technology) Application of Inorganic Electrides for Ammonia Synthesis
10:30-11:00	Coffee Break
	Session V: Mechanobiology / Biophysics
	Chair: Ryoichiro Kageyama, Kouichi Hasegawa
11:00-11:30	Yusuke Toyama (National Univ of Singapore) Mechanical Forces Behind Tissue Morphogenesis
11:30-12:00	Kaoru Sugimura (iCeMS) Quantifying and Modelling Epithelial Morphogenesis
12:00-12:30	Rikiya Watanabe (Univ of Tokyo) Artificial Cell-Membrane Microsystems Accelerates Membrane Protein Studies
12:30-13:30	Lunch
	Session VI: Microscopy (2)
	Chair: Motonari Uesugi, Dan Ohtan Wang
13:30-14:00	Yuko Mimori-Kiyosue (RIKEN CLST) Exploring Cellular Secrets with Lattice Light-Sheet Microscopy —Hidden Mechanisms Actuating Mitotic Apparatus
14:00-14:30	Yasufumi Takahashi (Kanazawa Univ) Live Cell Nanoscale Topography and Chemical Imaging by Using Scanning Ion Conductance Microscopy and Scanning Electrochemical Microscopy
14:30-15:00	Mitsuharu Midorikawa (Doshisha Univ) Imaging Exocytosis and Pre-exocytotic Activities of Single Synaptic Vesicles at Mammalian Presynaptic Terminals
15:00-15:15	Closing Remarks Jun Suzuki (Symposium Organizing Chair / iCeMS)