## iCeMS International Symposium

Light Control in Cell Biology
June 12-13, 2014, Kyoto University iCeMS
(as of May 23, 2014)

June 12	
10:00-10:10	Opening Remarks Ryoichiro Kageyama (Kyoto Univ iCeMS) Susumu Kitagawa (Director, Kyoto Univ iCeMS)
	Session 1 (Chair: Ohtan Wang)
10:10-10:45	<b>Shuhei Furukawa</b> (Kyoto Univ iCeMS)  Photoactive Porous Coordination Polymers Towards Gas Biology Applications
10:45–11:20	Michael Lin (Stanford Univ, USA) Designing Autocatalytic Light-Inducible Proteins Using Photodissociable Fluorescent Protein Domains
11:20-11:55	Akiko Hayashi-Takagi (Univ of Tokyo) Visualization of Learning-Related Memory Trace and Its Erasure by "Synaptic Optogenetics"
11:55-13:30	Group Photo, Lunch
13:30–13:45	Remarks <b>Toshio Kuroki</b> (Program Director, WPI)
	Session 2 (Chair: Peter Carlton)
13:45–14:20	Jared Toettcher (Univ of California San Francisco, USA) Using Optogenetics to Dissect Information Processing in the Ras/MAPK Signaling Network
14:20–14:55	<b>Michiyuki Matsuda</b> (Kyoto Univ) Fluctuation of Signaling Molecule Activities in the Cell: Just a Noise or More than It?
14:55–15:30	<b>Silvana Konermann</b> (Massachusetts Inst of Technology, USA) Optical Control of Endogenous Mammalian Gene Expression and Epigenetic States
15:30-16:00	Coffee Break
	Session 3 (Chair: Kaoru Sugimura)
16:00-16:35	Yi Yang (East China Univ of Science and Technology, China)  Light Switchable Transgene Systems
16:35–16:55	<b>Ryoichiro Kageyama</b> (Kyoto Univ iCeMS)  Light Control of Ascl1/Mash1 Expression in Neural Stem Cells
16:55-17:15	<b>Akihiro Isomura</b> (Kyoto Univ)  Controlling Genetic Oscillators by Light
17:15-17:50	<b>Kevin Gardner</b> (City Univ of New York, USA)  Versatile Light-Driven Control of Transcriptional Initiation:  Lessons Learned from Biophysics
18:00-	Banquet
June 13	Session 4 (Chair: Mineko Kengaku)
9:30-9:50	<b>Yuta Takano</b> (Kyoto Univ iCeMS) Regulation of Cell Membrane Potential and Ion Transport by Utilizing Photo-Induced Charge Separation in Organic Molecules
9:50-10:25	<b>Takeharu Nagai</b> (Osaka Univ)  Light Control and Visualization of Cellular Function
10:25-11:45	Coffee break
10:45-11:20	Joshua Johansen (RIKEN Brain Science Inst) Optogenetic Dissection of a Neural Circuit Controlling Associative Memory Strength
11:20-11:55	<b>Akihiro Yamanaka</b> (Nagoya Univ) Behavior Control by Activity Manipulation of Hypothalamic Neurons Using Optogenetics
11:55-12:00	Closing Remarks Shuhei Furukawa (Kyoto Univ iCeMS)