

List of the Speakers and Lecture Titles

Session 1: Visualizing and Controlling Molecules for Life				
			Title	Date
S1-1 (Invited)	Lihong V. WANG	California Institute of Technology, USA	Photoacoustic Tomography: Deep Tissue Imaging by Ultrasonically Beating Optical Diffusion	Day1
S1-2	Itaru IMAYOSHI	Kyoto University	Regulatory Mechanism of Neural Stem Cells Revealed by Optical Manipulation of Gene Expressions	
S1-3 (Invited)	Scott E. FRASER	University of Southern California, USA	Eavesdropping on Biological Processes with Multi-Dimensional Molecular Imaging	
S1-4	Sachiko TSUKITA	Osaka University	Apical microtubules define the function of epithelial cell sheets consisting of non-ciliated or multi-ciliated cells	
Keynote	Karl Deisseroth	Stanford University, USA	Illuminating the brain	Day2
S1-5	Tomomi KIYOMITSU	Nagoya University	Optogenetic assemblies of cortical force-generating complexes during mitosis	
S1-6	Kazuya KIKUCHI	Osaka University	<i>in vivo</i> Imaging Probes with Tunable Chemical Switches	
S1-7	Kazuo FUNABIKI	Institute of Biomedical Research and Innovation	Circuit-dependent striatal PKA and ERK signaling underlying action selection	Day3
S1-8 (Invited)	Evan W. MILLER	University of California, Berkeley, USA	Electrophysiology, Unplugged: New Chemical Tools to Image Voltage	
S1-9	Sotaro UEMURA	The University of Tokyo	Single Cell Analysis of Stimulated Immune Cells with Real-time Selection	
S1-10	Atsushi MIYAWAKI	RIKEN Brain Science Institute	Comprehensive approaches using luminescence to studies of cellular functions	

Session 2: Imaging Disease Mechanisms				
			Title	Date
Keynote	A. Vania Apkarian	Northwestern University Feinberg School of Medicine, USA	Make Chronic Pain Visible	Day1
S2-1	Masaya NAKAMURA	Keio University	Cortical plasticity after spinal cord injury using resting-state functional magnetic resonance imaging	
S2-2	Nicholas SMITH	Osaka University	Multimodal Label-free imaging to assess compositional and morphological changes in cells during immune activation	
S2-3	James T PEARSON Mikiyasu SHRAI	Research Institute of National Cerebral and Cardiovascular Center	Investigating <i>in vivo</i> myocardial and coronary molecular pathophysiology in mice with X-ray radiation imaging approaches	Day2
S2-4 (Invited)	Ulrich H. VON ANDRIAN	Harvard Medical School, USA	Visualizing the Immune Response to Infections	
S2-5	Masashi Yanagisawa	Tsukuba University	Imaging Sleep and Wakefulness	
S2-6 (Invited)	Mark J. Schnitzer	Stanford University and Howard Hughes Medical Institute, USA	Optical imaging of large-scale neural codes and voltage dynamics in behaving animals	
S2-7	Motomasa TANAKA	RIKEN Brain Science Institute	Abnormal local translation in dendrites impairs cognitive functions in neuropsychiatric disorders	
S2-8	Shigeo OKABE	The University of Tokyo	Imaging synapse formation and remodeling <i>in vitro</i> and <i>in vivo</i>	

Session 3: Imaging-based Diagnosis and Therapy				
			Title	Date
S3-1 (Invited)	Denis Le Bihan	NeuroSpin, CEA Saclay Center, FRANCE	How MRI makes the Brain Visible	Day1
S3-2	Masaru Ishii	Osaka University	Intravital multiphoton imaging revealing cellular dynamics <i>in vivo</i>	
S3-3 (Invited)	Hisataka Kobayashi	National Cancer Institute, NIH, USA	Theranostic Near Infrared Photoimmunotherapy for Cancer	
S3-4	Yasuyoshi WATANABE	RIKEN Center for Life Science Technologies	Novel and integrated imaging on Chronic Fatigue	
S3-5	Yasuteru URANO	The University of Tokyo	Novel fluorescent probes for rapid tumor imaging and fast glutathione dynamics	
S3-6 (Invited)	Geoffrey D. Rubin	Duke University, USA	Coronary Heart Disease Diagnosis: Engineering Triumphs, Economic Barriers	Day2
S3-7	Kenji KABASHIMA	Kyoto University	Live imaging of the skin immune responses	
S3-8	Masahiro JINZAKI	Keio University	Development of a horizontal CT and its application to musculoskeletal disease	
Keynote	Sanjiv Sam Gambhir	Stanford University, USA	The Future of Precision Health & Integrated Diagnostics	Day3
S3-9	Yasuhisa FUJIBAYASHI	National Institute of Radiological Sciences	Imaging and therapy against hypoxic tumors with ⁶⁴ Cu-ATSM	