

**The 1st ABiS Symposium**

**- Towards the Future of Advanced Bioimaging for Life Sciences -**

Date February 19(Sun)2017 – February 20(Mon)2017

Venue Okazaki Conference Center, NINS

**- Poster Presentation List-**

February 19(Sun)2017 PM15:10-16:10



## Poster Presentation List (English)

No	Author Name	Title
P 1	Natsumi Ageta-Ishihara	Immunoelectron Microscopy 3D Reconstruction Analysis of Septin Subunits in the Cerebellum
P 2	Yusuke Azuma	Cell Membrane Segmentation in <i>C. elegans</i> Embryos
P 3	Song Chihong	Structural Analyses of Murine Norovirus by Single Particle Cryo-Electron Microscopy
P 4	Kei Eto	Disruption of Balance Between Excitation and Inhibition in the Primary Somatosensory Cortex Contributes to Chronic Pain
P 5	Yugo Fukazawa	Common and Unique Ultrastructural Rules across Axospinous Synapses in the Mouse Brain Revealed by FIB-SEM Imaging
P 6	Shintaro Fumoto	Seebest: Novel Tissue Optical Clearing Method Preserving Lipid Structure
P 7	Mikio Furuse	Identification and Characterization of Novel Smooth Septate Junction Proteins in <i>Drosophila</i>
P 8	Natsuki Hasegawa	Where Does Cactus Synthesize Florigen and Where Do Florigens Pass?
P 9	Hiroyuki Hioki	Efficient Gene Delivery into Neuronal Cells using Adeno-Associated Virus Vector Equipped with the Tet-Off System
P 10	Nguyen Huy Bang	Conductive Resins Improve Charging and Resolution of Acquired Images in Electron Microscopic Volume Imaging
P 11	Ayako Imanishi	Development of Four Dimensional Histology for Live Imaging.
P 12	Hiroyuki Inada	Microglial Contact Prevents Excess Depolarization and Rescues Neurons from Excitotoxicity
P 13	Yasuhiro Kamei	A New Single-Cell Gene Induction Microscope Technology Using Light
P 14	Tatsuya Katsuno	Hair Cell Stereocilia Rootlets Hypoplasia in TRIOBP5 Deficient Mouse
P 15	Tatsuya Kawaoka	Rapid and Comprehensive Analysis of Autophagy-related Structures in the Yeast, <i>Saccharomyces cerevisiae</i>
P 16	Koji Kikuchi	Identification of Novel Microtubule-associated Proteins that Contribute to the Regulation of the Wnt/PCP Signaling Pathway.
P 17	Yoshitaka Kimori	Biomedical Image Processing Based on Mathematical Morphology: Contrast Enhancement, Segmentation, and Quantitative Description
P 18	Akatsuki Kimura	Quantitative Imaging of Cytoplasmic Flow and Microtubules to Understand the Mechanisms of Cytoplasmic Streaming in the <i>Caenorhabditis elegans</i> Zygote
P 19	Junichi Kishikawa	Single Particle Analysis of V-type ATP Synthase
P 20	Masato Koike	Purkinje Cells are More Vulnerable to the Specific Depletion of Cathepsin D than to that of ATG7
P 21	Akira Komatsubara	Quantification of Endogenous Protein Concentration by CRISPR/Cas9-mediated Knock-in and Fluorescence Correlation Spectroscopy

P 22	Yumi Konagaya	A Highly Sensitive FRET Biosensor for AMP-activated Protein Kinase Reveals Heterogeneous Cellular Responses in vitro and in vivo.
P 23	Daisuke Kurihara	ClearSee: A Rapid Optical Clearing Reagent for Whole-Plant Fluorescence Imaging
P 24	Gembu Maryu	Multiplexed Imaging of ERK and Akt Activities and Cell Cycle
P 25	Masafumi Minoshima	Fluorescence Detection of Histone Deacetylase Activity Using DNA-Binding Chemical Probe
P 26	Kaoru Mitsuoka	STEM and Ultra-High Voltage TEM Imaging for Cryo-Tomography
P 27	Akihiko Morozumi	Development of spontaneously Blinking Fluorophores Based on Nucleophilic Addition of Intracellular Glutathione for Super-Resolution Imaging
P 28	Yasutaka Mukai	Screening of Factors Regulate Noradrenergic Neurons in the Locus Coeruleus by Calcium-Imaging in Mouse Acute Brain Slice
P 29	Takashi Murata	3-Dimensional Analyses of Microtubule Organization in Cortical Arrays of Plant Cells
P 30	Shuichi Nishikawa	Live Imaging Analyses of Polar Nuclear Fusion in Wild-type and Mutant Arabidopsis Ovules
P 31	Liu Pin Wu	Application of Two-photon Microscopy and Glutamate Uncaging with Gene Silencing to Reveal the Regulatory Mechanism of Dendritic Spine Structure
P 32	Truc Quynh Thai	Rapid Specimen Preparation to Improve Throughput of Electron Microscopic Volume Imaging.
P 33	Sei Saito	Microscopic and LC-MS Analyses of Lipid Metabolism Abnormality in Proximal Renal Tubule of Diet Induced Obesity Mice
P 34	Tadashi Sato	Electron Microscopy Studies of ER Glycoprotein Folding Sensor Enzyme and Archaeal Homolog of Proteasome Assembly Chaperone
P 35	Ko Sugawara	Fluorescence Nanoscopy of mRNA Localization and Dynamics in Stress Granules
P 36	Jun Sugimoto	Tracking and Movement Principle Estimation of Centrosome
P 37	Takashi Takaki	Analysis on the Injury of Glomerular Basement Membrane in Human Glomerular Diseases Using SBF-SEM Method.
P 38	Saori Takaoka	Development of a FRET Biosensor for TAK1 Activity
P 39	Hiroko Takazaki	Supports of Image Processing and Analysis of Electron Micrographs
P 40	Asuka Terai	Neural Mechanisms Associated with Emergent Interpretations in Metaphor Comprehension
P 41	Shiori Toba	Application of Eos (Extensible Object-Oriented System) to Electron Microscopy of Huge and Complex Microtubule-Associated Proteins
P 42	Hiroyuki Tsuji	Imaging Florigen Distribution in the Shoot Apical Meristem
P 43	Jun Tsunoda	Single Particle Analysis of EhV-ATPase by Phase-contrast Cryo-Electron Microscopy

P 44	Motosuke Tsutsumi	Imaging Support in Nikon Imaging Center at Hokkaido University
P 45	Minako Ueda	Live-cell Imaging of Zygote Polarization in Arabidopsis
P 46	Masakazu Umezawa	Near-Infrared Fluorescent Deep Imaging of Mouse Airway in the OTN-NIR Biological Window
P 47	Laura Wortmann	Nanosensor for In Vitro Temperature Sensing
P 48	Asaka Yamada	Relation between Direction of Elastin Fibers and Principal Stress in the Aortic Media
P 49	Kazushi Yamaguchi	Quantitative Evaluation of Two-Photon Laser Ablation for Single Neural Processes in Living Mouse Brains
P 50	Yumi Yamanaka	Development of Multi-point Scanning Two-photon Microscopy and Application for In Vivo Imaging of Pancreas
P 51	Gil Yeroslavsky	Foster Resonance Energy Transfer (FRET) as a Tool for Detection of Strain in Elastic Polymers

## About MRI Support Activities (Japanese)

	Author Name	Content of Support
	下地 啓五 (Keigo Shimoji)	拡散 MRI 解析支援 (Diffusion MRI)
	福永 雅喜 (Masaki Fukunaga)	機能的 MRI 計測技術・解析支援 (Functional MRI)
	岡田 直大 (Naoto Okada)	構造/安静時機能的 MRI 解析支援 (sMRI/rs-fMRI)