



MPFI·JST(PRESTO) Joint Workshop on Neuroscience and Single Cell Analysis

Oct. 29(Mon)-Oct.30(Tue), 2018
@ Auditorium, MPFI



MAX PLANCK
FLORIDA INSTITUTE FOR
NEUROSCIENCE



Program

29 October, 2018

13 : 00 ~ Welcome Remarks
Ryohei Yasuda (Scientific Director/Research Group Leader, MPFI)

Session1 chair Sayaka Takemoto

13 : 10 ~ Inhibitory Regulation of Plasticity and Learning in the Cerebellum
Jason Christie (Research Group Leader, MPFI) 3

13 : 35 ~ Exploring the Regulation of ER-Mitochondria Contact and its Physiological Roles in Mammals
Yusuke Hirabayashi (Associate Professor, University of Tokyo) 4

14 : 00 ~ Mapping the Functional and Structural Synaptic Architecture of Neurons in Visual Cortex
Ben Scholl (Research Fellow, MPFI) 5

14 : 25 ~ Viral and Imaging Approaches Toward Understanding Neural Circuits in the Mouse Visual System
Fumitaka Osakada (Associate Professor, Nagoya University) 6

14 : 50 ~ Cellular Resolution Circuit Mapping in Mouse Models of Autism with Soma-Targeted Opsins
McLean Bolton (Research Group Leader, MPFI) 7

Break

Session2 chair Jason Christie

15 : 30 ~ Nanoscale Live Cell Chemical and Topographical Imaging using Scanning Probe microscopy
Yasufumi Takahashi (Associate Professor, Kanazawa University) 8

15 : 55 ~ Internally Generated Sequences as Substrates of Episodic Memory
Yingxue Wang (Research Group Leader, MPFI) 9

16 : 20 ~ Cellomics Approach for High-Throughput Functional Annotation of Caenorhabditis Elegans Neural Network
Wataru Aoki (Assistant Professor, Kyoto University) 10

16 : 45 ~ Regulation of Neuronal Autophagy during Axon Development
Brock Grill (Associate Professor, Scripps Research Institute) 11

17 : 10 ~ Regulation of Neural Stem/Progenitor Cell Fate During Brain Development
Yukiko Gotoh (Professor, University of Tokyo) 12

17 : 50 ~ Social Hour with Lite Bites

19 : 20 ~ JST-RESTO and Single Cell Research Program
Itaru Hamachi (Professor, Kyoto University, Supervisor of Single Cell PRESTO)

30 October, 2018

Session3 chair Wataru Aoki

9 : 00 ~ Deciphering the Cell Individuality of a Cell by Single Molecule Analysis of Membrane Molecule Dynamics
Hiroko Bannai (Research Scientist, RIKEN/JST) 13

9 : 25 ~ Intersectional Monosynaptic Tracing for Dissecting Subtype-Specific Organization of GABAergic Interneuron Inputs
Hiroki Taniguchi (Research Group Leader, MPFI) 14

9 : 50 ~ Exploring Molecular Pathways Involved in Central Amygdala-Dependent Control of Emotional Behaviors
Sayaka Takemoto-Kimura (Professor, Nagoya University) 15

10 : 15 ~ Spatiotemporal Activity of PKC Isozymes During Spine Plasticity
Lesley Colgan (Research Fellow, MPFI) 16

Break

Session4 chair Hiroki Taniguchi

10 : 55 ~ Comprehensive, Single-Cell Analysis of the Localization and Dynamics of Endogenous Proteins in Brain Tissue
Takayasu Mikuni (Professor, Niigata University) 17

11 : 20 ~ Dissecting Behaviourally-Relevant Neuronal Population at Cellular Resolution
Hyungbae Kwon (Research Group Leader, MPFI) 18

11 : 45 ~ Regulatory Mechanism of Neural Stem Cells Revealed by Optical Manipulation of Gene Expressions
Itaru Imayoshi (Associate Professor, Kyoto University) 19

12 : 10 ~ Closing Remarks

Ryohei Yasuda (Scientific Director/Research Group Leader, MPFI)

12 : 30 ~ Lunch