Program

The 48th NIPS International Symposium
“Neural circuitry and plasticity underlying brain function”
Okazaki Conference Center (OCC), Okazaki, Aichi
October 31 – November 2, 2017

October 31 (Tue)
12:30 – 13:30 Registration
13:30 – 13:40 Opening remarks
Keiji Imoto (Director General, NIPS, Japan)
Yumiko Yoshimura (NIPS, Japan)

Session 1: Activity- and experience dependent developmental mechanisms
13:45 – 14:20 S1-1 Yumiko Yoshimura (NIPS, Japan)
“The roles of visual experience in the maturation of neural responses in the primary visual cortex”
14:20 – 14:55 S1-2 Kenichi Ohki (the University of Tokyo, Japan)
TBA
14:55 – 15:10 Coffee Break
15:10 – 15:45 S1-3 Madoka Narushima (NIPS, Japan)
“The metabotropic glutamate receptor subtype 1 mediates experience-dependent maintenance of mature synaptic connectivity in the dorsal lateral geniculate nucleus”
15:45 – 16:20 S1-4 Nobuhiko Yamamoto (Osaka University, Japan)
“Activity-Dependent Mechanisms for Thalamocortical Circuit Formation”
16:20 – 16:35 Coffee Break

Session 2: Multimodal integration and plasticity
16:35 – 17:10 S2-1 Patrick Kanold (University of Maryland, USA)
“Crossmodal induced refinement of auditory cortex circuits”
17:10 – 17:45 S2-2 Seung-Hee Lee (KAIST, Korea)
“Neural circuits for sensory integration”
17:45 – 18:30 Short Talk x3
18:30 – 20:30 Dinner for invited speakers
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November 1 (Wed)

Special Lecture 1
9:00 – 10:00  Edward M. Callaway (Salk Institute, USA)  
“Imaging the Mouse Visual System: Parallel Pathways and Visual Cortical Areas”

10:00 – 10:15  Coffee Break

Session 3:  Molecular mechanisms for formation and elimination of neural circuits
10:15 – 10:50  S3-1 Denis Jabaudon (University of Geneva, Switzerland)  
“Dynamic control of neuronal diversity in the developing neocortex”
10:50 – 11:25  S3-2 Kazuo Emoto (the University of Tokyo, Japan)  
“Molecular and cellular basis for neurite remodeling in Drosophila”
11:25 – 12:00  S3-3 Tomomi Shimogori (RIKEN, Japan)  
“Activity dependent Btbd3 protein dynamics for selective dendrite morphogenesis in developing neurons”

12:00 – 12:20  Group photo
12:20 – 13:30  Lunch

Special Lecture 2
13:30 – 14:30  Haruo Kasai (the University of Tokyo, Japan)  
“Dopamine actions on the dendritic spines and conditioning behaviors”

14:30 – 14:45  Coffee Break
14:45 – 15:45  Short Talk×4
15:45 – 18:00  Flash talk, Poster Session
18:30 – 20:30  Party for all participants & informal discussion
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November 2 (Thu)

Session 4: Learning and memory
9:00 – 9:35  S4-1 Wenbiao Gan (New York University School of Medicine, USA)
“Dendritic branches are independent units for memory storage and generalization”
9:35 – 10:10  S4-2 Masanori Murayama (RIKEN, Japan)
“Top-Down Cortical Circuit for Perception and Memory Consolidation in Mice”
10:10 – 10:45  S4-3 Takaki Komiyama (UCSD, USA)
“Imaging neural ensembles during learning”
10:45 – 11:00  Coffee Break

Session 5: Subcellular mechanisms for information processing
11:00 – 11:35  S5-1 Hiroshi Kuba (Nagoya University, Japan)
“Tonotopic differentiation of dendritic computation in sound localization circuit”
11:35 – 12:10  S5-2 Yoshiyuki Kubota (NIPS, Japan)
“The Diversity of Cortical Inhibitory Synapses”
12:10 – 12:15  Closing remarks
Yumiko Yoshimura (NIPS, Japan)