

## 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)

13:40 – 13:45 Introduction

**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 – 15:15 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 ×3

18:30 – 20:30 Dinner for invited speakers & informal discussion

## Program

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 Talkx4

15:45 – 18:00     Flash talk, Poster Session

18:30 – 20:30     Party for all participants & informal discussion

## Program

### 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 Maruyama** (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)