

## Visualization of brain network and function

8 - 9 March 2019 | Center for Integrated Human Brain Science, Brain Research Institute, Niigata University

DAY 1	
Friday 8 March	
13:00	<b>Opening Remarks</b> Hiroyuki Nawa (Director, BRI, Niigata University)
<b>Session I</b> Chairs: Masaki Ueno and Hideaki Matsui	
13:05-13:35	<b>Transsynaptic mapping and optical imaging of neural circuits in the mouse visual system</b> Fumitaka Osakada (Nagoya University, Japan)
13:35-14:05	<b>CUBIC: Whole-brain/body imaging with single-cell resolution using hydrophilic chemical cocktails</b> Kazuki Tainaka (BRI, Niigata University, Japan)
<b>Special Lecture</b> Chairs: Masaki Ueno and Hideaki Matsui	
14:05-14:45	<b>Spying on the dynamics of purinergic and monoaminergic neuromodulation by constructing new genetically-encoded GRAB sensors</b> Yulong Li (Peking University, China)
14:45-15:05	COFFEE BREAK
<b>Session II</b> Chairs: Kazuki Tainaka and Atsushi Sugie	
15:05-15:35	<b>Multiscale understanding of synaptic pathology of psychiatric disorders</b> Akiko Hayashi-Takagi (Gunma University, Japan)
15:35-16:05	<b>Applications for upconversion nanoparticles in neurobiology</b> Thomas J McHugh (RIKEN Center for Brain Science, Japan)
<b>Special Lecture</b> Chairs: Kazuki Tainaka and Atsushi Sugie	
16:05-16:45	<b>Modeling human diseases using human organoid systems</b> Huck Hui Ng (Genome Institute of Singapore, Singapore)
17:00-18:00	POSTER SESSION
19:00-	OFFSITE MEETING / WELCOME BANQUET
DAY 2	
Saturday 9 March	
<b>Session III</b> Chairs: Toshikuni Sasaoka and Manabu Abe	
09:00-09:30	<b>Development and application of genome editing technologies in the mammalian brain <i>in vivo</i></b> Takayasu Mikuni (BRI, Niigata University, Japan)
09:30-10:00	<b>Reciprocal activation within a kinase-effector complex underlying persistence of structural LTP</b> Yasunori Hayashi (Kyoto University, Japan)
10:00-10:30	<b>Chemical labeling of endogenous receptors in live neurons</b> Itaru Hamachi (Kyoto University, Japan)
10:30-10:45	COFFEE BREAK
<b>Special Lecture</b> Chairs: Hironaka Igarashi and Takayasu Mikuni	
10:45-11:25	<b>Luminescent protein applications in research, medicine, and bioengineering</b> Atsushi Miyawaki (RIKEN Center for Brain Science, Japan)
<b>Session IV</b> Chairs: Hironaka Igarashi and Takayasu Mikuni	
11:25-11:55	<b>Revisiting memory consolidation theory: Is protein synthesis required?</b> Yi Zhong (Tsinghua University, China)
11:55-12:25	<b>Homeostatic behavior of network activity</b> Yuji Ikegaya (The University of Tokyo, Japan)
12:30	<b>Closing Remarks</b> Masaki Ueno (BRI, Niigata University)

No attendance fee required.

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