

US-Japan synaptic plasticity meeting – *Synaptic Basis of Cognition*

Sunday, November 3rd

Evening

3:00-5:00 Arrival and check-in
5:00-7:00 Welcome, introductions, posters setup and viewing
7:15-9:00 Dinner

Monday, November 4th

Morning

8:50-9:00 Welcome by meeting organizers: Jason Shepherd and Josh Johansen
9:00-12:10 **Non-neuronal cell types and novel molecular mechanisms regulating synaptic plasticity (Chair: Rick Huganir)**
9:00-9:35 **Yukiko Gotoh** "Chromatin-mediated regulation of neuronal activity and memory"
9:35-10:10 **Lucas Cheadle** "Neuro-immune mechanisms of synaptic development, plasticity, and function"
10:10-10:30 Coffee break
10:30-11:05 **Kate Smith** "Investigating nanoscale mechanisms that control synaptic inhibition plasticity and diversity"
11:05-11:40 **Jason Shepherd** "Intercellular synaptic plasticity mediated by Arc virus-like signaling"
12:00-2:00 Lunch and Group Beach Hike

Afternoon

2:00-5:10 **Linking synapses and circuits (Chair: Karen Zito)**
2:00-2:35 **Rick Huganir** "Regulation of Neurotransmitter Receptors during Synaptic Plasticity in Health and Disease."
2:40-3:15 **Na Ji** "Imaging synaptic input at high spatiotemporal resolution"

3:15-3:35	Coffee break
3:35-4:10	Ayako Watabe "Neuronal Mechanisms Underlying State-dependent Modulation of Affective Behaviors"
4:10-4:45	Jayeeta Basu "Cortico-Hippocampal Circuit Interactions in Shaping Plasticity and Memory"
4:45-5:00	Break
5:00-6:00	Young Investigator Session (Chair: Jason Shepherd) Short talks selected from trainee applicants
6:00-7:00	Dinner
7:00-9:00	Poster session and social

Tuesday, November 5th

Morning

9:00-12:10	Synaptic plasticity mechanisms underlying learning and memory (Chair: Masa Murayama)
9:00-9:35	Haruhiko Bito "Towards understanding complex neural dynamics via multiplex imaging of neuronal activity and signaling"
9:35-10:10	Yasunori Hayashi "Online and offline synaptic plasticity during memory consolidation"
10:10-10:30	Coffee break
10:30-11:05	Kaz Tanaka "Extreme neuronal plasticity retains memory"
11:05-11:40	Yoko Yazaki-Sugiyama "Developmental neuronal circuit rewiring for timely zebra finch song learning"
12:00-2:00	Lunch

Afternoon

2:00-5:10	New views on synapse function (Chair: Kate Smith)
2:00-2:35	Ramendra Saha "The role of CaMKII–GluN2BCTD interaction in activity-induced gene transcription."

2:40-3:15	Karen Zito "Ion flux-independent NMDA receptor signaling in bidirectional synaptic plasticity and disease"
3:15-3:35	Coffee break
3:35-4:10	Peri Kurshan "Intracellular proteins drive presynaptic assembly and recruit cell-adhesion molecules"
4:10-4:45	Yuuta Imoto "Orchestrated synaptic nano-architectures for efficient synaptic vesicle recycling"
4:45-5:00	Break
5:00-6:00	Young Investigator Session (Chair: Joshua Johansen) Short talks selected from trainee applicants
6:00-7:00	Dinner
7:00-9:00	Poster session, social and organization of collaborations

Wednesday, November 6th

Morning

9:00-12:10	Distributed synaptic and circuit connectivity underlying cognition (Chair: Yoko Yazaki-Sugiyama)
9:00-9:35	Masa Murayama " Emotional association enhances perceptual memory through amygdalo- cortical inputs during NREM sleep "
9:35-10:10	Aya Ito-Ishida "Impairment of cortical connectivity in the mouse model of Rett Syndrome"
10:10-10:30	Coffee break
10:30-11:05	Kaoru Inokuchi "The idling brain in cognition"
11:05-11:40	Joshua Johansen "Building emotional representations in brain circuits"
11:45-1:45	Working Lunch: discussion and organization of collaborations
2:00	Departure of participants
2:00-3:00	Organizer meeting to draft summary document