

Saturday, 25 April Tutorial

“What are becoming possible by optical imaging and manipulation”

15:00-	The registration starts
15:40-16:40	Dr. Bernd Kuhn, OIST Two photon microscopy in mammals
16:40-16:50	Break (10mins)
16:50-17:50	Dr. Makio Torigoe, RIKEN Imaging/optogenetics in non-mammal vertebrates
17:50-18:00	Break (10mins)
18:00-19:00	Dr. Ichiro Maruyama, OIST Imaging/optogenetics in invertebrates
19:00-19:20	Discussion
19:30-	Reception at Agu no Kakurega *A shuttle bus to the restaurant will be provided after the tutorial.

Sunday, 26 April

8:30-	The registration starts
9:00- 9:10	Greeting Dr. Kenji Doya, OIST
9:10- 9:30	Dr. Yu Omura, Hokkaido univ. (A02) Elucidation of the relationship between serotonergic systems and model-based decision making using optogenetics
9:30- 9:50	Dr. Kazuhiro Sakamoto, Tohoku univ. (A02) Network mechanisms for prediction and decision in the frontal robe through analysis of inter-areal and inter-laminar information flows
9:50-10:10	Dr. Hiromu Tanimoto, University of Tokyo (A02) Neural circuits and behavioural control of memories in different sensory modalities
10:10-10:30	Dr. Koshi Murata, University of Tokyo (A02) Decision making on food intake via neural pathways from the orbitofrontal cortex onto the olfactory tubercle
10:30-10:50	Break (20mins)
10:50-11:10	Dr. Kenji Morita, University of Tokyo (A02) Neural circuit mechanisms of the computation of reward prediction error and reinforcement learning: theoretical exploration of the corticostriatal temporal difference (CS-TD) hypothesis
11:10-11:30	Dr. Hiroyuki Mizoguchi, Nagoya univ. (A02) Research on impaired decision-making by using DREADD system and computational approach
11:30-11:50	Dr. Takayuki Teramoto, Kyushu univ. (A02) In vivo 4-D Ca ²⁺ imaging of multi-neuronal activities in a local circuit for C. elegans decision-making
11:50-12:10	Dr. Katsuhiko Miyazaki, OIST (A02) Elucidation of neural mechanism for regulating waiting behavior based on reward prediction
12:10-13:10	Lunch (Administrative Meeting at Meeting room1) (60mins)
13:10-14:30	Poster presentations

14:30-14:50	Dr. Makoto Ito, OIST (A02) Hippocampal representation of mental simulation
14:50-15:10	Dr. Yasuo Kawaguchi, NIPS (A02) Sequential activation of basal ganglia-projecting cortical subnetworks
15:10-15:30	Dr. Masaaki Ogawa, NIPS (A02) Neural mechanisms of reward-based decision making
15:30-15:50	Dr. Hiroyuki Nakahara, RIKEN (A02) Neural mechanisms for value generation and value integration in decision making: modeling and experiment
15:50-16:10	Dr. Yutaka Komura, AIST (A02) Neural bases of setting and utilizing decision criteria
16:10-16:30	Break (20mins)
16:30-16:50	Dr. Akio Namiki, Chiba univ. (A01) Research on decision-making algorithm for game-playing robots based on prediction of opposing player's motions.
16:50-17:10	Dr. Shigenobu Toda, Kanazawa univ. (A01) Role of neuronal plasticity in the nucleus accumbens in transition from goal-directed actions to habits
17:10-17:30	Dr. Yasushi Kobayashi, Osaka univ. (A01) Exploring decision-making mechanism by analyzing brainstem-cortical network dynamics with tDCS on monkeys
17:30-17:50	Dr. Satoshi Umeda, Keio univ.
17:50-18:20	Discussion (30mins)
18:30-	Reception at Chura Hall, Seaside House 3F

Monday, 27 April

9:00- 9:20	Dr. Ken Takiyama, Tamagawa univ. (A01) Investigation into common principles of motor learning and decision making through construction of a unified model
9:20- 9:40	Dr. Eiji Uchibe, OIST (A01) Role of model-based and model-free reinforcement learning in partially observable environments
9:40-10:00	Dr. Katsuyuki Kaneda, Hokkaido univ. (A03) Neural mechanisms of stress-induced changes in drug seeking behaviors
10:00-10:20	Dr. Masayuki Matsumoto, University of Tsukuba (A03) Roles of salience- and value-related dopamine signals in learning mechanisms
10:20-10:40	Dr. Shuji Kaneko, Kyoto University (A03) Identifying serotonergic circuits involved in impulsive behaviors using cell-type-specific, retrograde viral vectors
10:40-11:00	Break (20mins)
11:00-11:20	Dr. Jin Narumoto, Kyoto Prefectural University of Medicine (A03) Neural Substrates for Altered Reward Prediction in Psychiatric Disorders with Serotonergic Dysfunction
11:20-11:40	Dr. Kae Nakamura, Kansai Medical univ. (A03) The influence of stress on reward and delay information processing: the role of serotonin
11:40-12:00	Dr. Takafumi Minamimoto, National Institute of Radiological Sciences (A03) Roles of Serotonin in Controlling and Interrupting Decision Making
12:00-12:20	Discussion (20mins)
12:20-12:30	General report and information(10mins)
13:00-14:00	Lunch at Café Kaito+ at OIST main campus *A shuttle bus to OIST main campus will be provided. (The reservation is required.)
14:00-15:00	Doya unit and associated unit Lab tour (The reservation is required.)
