【NIPS meeting on synapse physiology】

Date: Oct 19(Thu)-20(Fri) 2023
Venue: Inamori Hall, Kagoshima University & Zoom Online
Organizer: Tatsuo Sato (Kagoshima University), Secretary-General: Yumiko Yoshimura (NIPS)

October 19 (Thu)

12:00-12:50  Registration, PC and network check
12:50-13:00  Welcome remarks  Tatsuo Sato (Kagoshima University)

Session I  Chair: Yasunori Hayashi (Kyoto University)
Invited talk 1 (without Zoom)
13:00-13:45  Masaaki Ogawa (Shiga University of Medical Science)
"Neural mechanisms to cope with lack of expected reward: role of dopamine"

Talk (1)
13:45-14:05  Takayuki Yamashita (Fujita Health University School of Medicine)
"Reward-Related Orofacial Movements: Mechanisms and Influence on Cortical Activities"

Talk (2)
14:05-14:25  Yuichiro Hayashi (Kansai Medical University)
"The organization of spatial coding in the hippocampal CA1 area"
Session II
Chair: Shinya Kawaguchi (Kyoto University)
Invited talk 2
14:40-15:25  Takeshi Imai (Kyushu University)
"Activity-dependent lateral inhibition signals for synaptic competition"

Talk (3)
15:25-15:45  Reo Higashi (Kyoto University)
"Propagation and integration of excitatory post-synaptic potentials in cerebellar Purkinje neuron dendrite"

Short talk ①
15:45-16:00  Haesuk Lee (Kagoshima University)
"A dendritic basis for sensory tuning in the primary visual cortex"

Session III
Chair: Naofumi Uesaka (Tokyo Medical and Dental University)
Special Lecture
16:15-17:05  Masanobu Kano (Tokyo University, Teikyo University)
"My Thirty Years of Research on Developmental Synapse Elimination"

Thorlabs session
Chair: Tatsuo Sato (Kagoshima University)
Short talk ②
17:20-17:35  Takeo Katsuki (Thorlabs)
"Prelude: A Compact Innovation in Two-Photon Microscopy"

Invited talk 3
17:35-18:20  Lucy M. Palmer (Florey Institute of Neuroscience and Mental Health)
"Dynamics of dendritic encoding during learning"

Invited talk 4 (without Zoom)
18:20-19:05  Hiroshi Makino (Nanyang Technological University)
"LEARNING IN INTELLIGENT SYSTEMS"

(Social gathering) Dinner at 20:00 in Tenmonkan
October 20 (Fri)

Session V
Chair: Hidenobu Mizuno (Kumamoto University)
Invited talk 5 (without Zoom)
9:00-9:45 Akiyuki Taruno (Kyoto Prefectural University of Medicine) "The channel synapse mediates airway protective chemoreflexes"

Short talk ③
9:45-10:00 Jun Kaminosono (Kagoshima University) "Optogenetic-based cardiac pacing in awake freely moving mice; toward psychosomatic correlation research"

(Break)

Session VI
Chair: Hiroyuki Okuno (Kagoshima University)
Invited talk 6
10:05-10:50 Kengo Inada (RIKEN) "A vasopressin-to-oxytocin receptor crosstalk underlying paternal behavioral transition in mice"

Short talk ④
10:50-11:05 Natsuko Hitora-Imamura (Kumamoto University) "Neural circuit mechanisms of behavioral selection in a conflict scenario"

(Break)

Session VII
Chair: Nao Tamagawa (Kagoshima University)
Talk ⑷
11:15-11:35 Yuki Hashimotodani (Doshisha University) "Verification of two different packaging models in glutamate and GABA co-release synapses: same or separate vesicles"

Talk ⑸
11:35-11:55 Kohgaku Eguchi (OIST) "Alternative splicing of CaV2.1 EF-hand regulates calcium influx-sensor coupling for neurotransmitter release in mouse cerebellar synapses"

(Break)

Session VIII
Chair: Yoshiaki Tagawa (Kagoshima University)
Short talk ⑤
12:00-12:15 Kei Furukawa (Kyoto University) "Opposite actions of cAMP on action potential and transmitter release dynamically control outputs in Purkinje cells"

Short talk ⑥
12:15-12:30 Takao Tsukahara (Meikai University) "Deciphering the Role of Kdm5c/Kdm5d X-Y Pair genes in neurodevelopmental disorders"
12:30-12:35    Voting for the SNBL Best Junior Presentation Award

Invited talk 7 (without Zoom)
12:35-13:20    Naofumi Uesaka (Tokyo Medical and Dental University)
               "Neuronal and Synaptic Influences on Brain Tumors"

13:20-13:25    Closing remarks    Tatsuo Sato (Kagoshima University)

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