

【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"

(Break)

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"

(Break)

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"

(Break)

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 (4)

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 (5)

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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