

The 47th NIPS International Symposium “*Decoding Synapses*”
Okazaki Conference Center (OCC), Okazaki, Aichi
October 26 – 28, 2016

Program

October 26 (Wed)

8:15 – 9:00	Registration
9:00 – 9:05	Opening remarks Keiji Imoto (Director General, NIPS, Japan)
9:05 – 9:10	Introduction Masaki Fukata (NIPS, Japan)

Session 1: Regulation of receptor trafficking

Chair: Toshihisa Ohtsuka (Univ of Yamanashi, Japan)

9:10 – 9:45	S1	Masaki Fukata (NIPS, Japan) <i>“Regulatory mechanisms for AMPA receptors through PSD-95”</i>
9:45 – 10:20	S2	Katherine W Roche (NIH/NINDS, USA) <i>“PSD-95 plays diverse roles in regulating synaptic NMDA receptors”</i>
10:20 – 10:55	S3	Akihiko S Kato (Lilly Research Laboratory, USA) <i>“Selective pharmacological modulation of forebrain AMPA receptors: Success in the development of <u>T</u>ARP γ-8-dependent <u>A</u>MPA receptor <u>a</u>ntagonist, <u>T</u>DAA”</i>

10:55 – 11:10 **Coffee Break**

Special Lecture 1

Chair: Masaki Fukata (NIPS, Japan)

11:10 – 12:00	David S Bredt (Janssen Pharmaceutical Companies of Johnson and Johnson, USA) <i>“Discovery of NACHO: An essential chaperone for presynaptic and postsynaptic nicotinic acetylcholine receptors in brain”</i>
---------------	--

12:00 – 12:10 **Group photo**

12:10 – 13:15 **Lunch**

Luncheon Satellite Seminar (Director-Invited Lecture)

Room B

Chair: Junichi Nabekura (NIPS, Japan)

12:15 – 13:05	Ryohei Yasuda (Max Planck Florida Institute, USA) <i>“Biochemical computation in single dendritic spines: implication in synaptic plasticity”</i>
---------------	---

Session 2:		Trans-synaptic regulation
		<i>Chair: Yuko Fukata (NIPS, Japan)</i>
13:15 – 13:50	S4	Eunjoon Kim (KAIST, Korea) <i>“Regulation of neuronal synapses by the SALM/Lrfr family of synaptic adhesion molecules”</i>
13:50 – 14:25	S5	Katsuhiko Tabuchi (Shinshu Univ, Japan) <i>“Distortion of the synaptic functions in the microcircuit of the brain in model mice for neurodevelopmental disorders”</i>
14:25 – 15:00	S6	Michisuke Yuzaki (Keio Univ, Japan) <i>“Synaptic M�nage � Trois—A Bridge Over Troubled Synapses”</i>
15:00 – 15:15	Coffee Break	

Session 3:		Synaptic dynamics and plasticity I
		<i>Chair: Yasuo Mori (Kyoto Univ, Japan)</i>
15:15 – 15:50	S7	Toshihisa Ohtsuka (Univ of Yamanashi, Japan) <i>“Decoding short-term synaptic plasticity: implication of CAST phosphorylation in control of synaptic plasticity at the excitatory synapses”</i>
15:50 – 16:25	S8	Shigeo Okabe (The Univ of Tokyo, Japan) <i>“Maturation-dependent regulation of synaptic density and dynamics”</i>
16:25 – 17:00	S9	Naoki Matsuo (Osaka Univ, Japan) <i>“Visualization and manipulation of memory engram”</i>
17:00 – 17:15	ST1	Eisuke Koya (Univ of Sussex, UK) <i>“Enhanced excitability of nucleus accumbens, but not orbitofrontal cortex neuronal ensembles following sucrose memory recall: reversal by extinction”</i>
17:15 – 17:30	ST2	Kazuhiko Yamaguchi (RIKEN, Japan) <i>“Reassessment of synaptic plasticity in mutant mice carrying mutated GluA2-CT with normal ability in motor learning: revival of LTD hypothesis”</i>
17:35 – 18:00	Flash talk for poster presentations (2 min x 12 persons, FT1-FT12)	
18:30 – 20:30	Dinner for invited speakers & informal discussion	

October 27 (Thu)

Special Lecture 2	
<i>Chair: Masaki Fukata (NIPS, Japan)</i>	
9:00 – 9:50	Masanobu Kano (The Univ of Tokyo, Japan) <i>“Multiple phases of activity-dependent synapse elimination in the developing cerebellum”</i>
9:50 – 10:05	Coffee Break

Session 4:		Synaptic dynamics and plasticity II
<i>Chair: Haruhiko Bito (The Univ of Tokyo, Japan)</i>		
10:05 – 10:40	S10	Keiko Tanaka-Yamamoto (KIST, Korea) <i>“Timely regulated late endosome sorting for the maintenance of cerebellar long-term depression”</i>
10:40 – 11:15	S11	Masahiko Watanabe (Hokkaido Univ, Japan) <i>“Glutamate transporter GLAST controls synaptic wrapping by Bergmann glia and ensures proper wiring in Purkinje cells”</i>
11:15 – 11:50	S12	Kazuo Emoto (The Univ of Tokyo, Japan) <i>“Spatio-temporal regulation of dendrite development and remodeling”</i>
11:50 – 13:00 Lunch		

Special Lecture 3	
<i>Chair: Masaki Fukata (NIPS, Japan)</i>	
13:00 – 13:50	Daniel Choquet (CNRS-Bordeaux Univ, France) <i>“The various roles of nanoscale AMPA receptor dynamics in synaptic plasticity”</i>
13:50 – 14:05 Coffee Break	

Session 5:		Synaptic imaging and manipulation I
<i>Chair: Katherine W Roche (NIH/NINDS, USA)</i>		
14:05 – 14:40	S13	Hideji Murakoshi (NIPS, Japan) <i>“Spatiotemporal manipulation and imaging of signaling molecules in dendritic spines”</i>
14:40 – 15:15	S14	Matthew J Kennedy (Univ of Colorado Denver Sch of Med, USA) <i>“Novel approaches for controlling synaptic and cellular function with light”</i>
15:15 – 15:30	ST3	Shigeki Kiyonaka (Kyoto Univ, Japan) <i>“Visualization of native AMPA receptors in live neurons by a novel chemical approach”</i>
15:30 – 15:45 Coffee Break		

Session 6:		Structural aspects of synaptic proteins
<i>Chair: Makoto Kinoshita (Nagoya Univ, Japan)</i>		
15:45 – 16:20	S15	Shuya Fukai (The Univ of Tokyo, Japan) <i>“Structural basis of splice insert-dependent synaptic adhesion mediated by receptor protein tyrosine phosphatase TM”</i>
16:20 – 16:55	S16	A Radu Aricescu (Univ Oxford, UK) <i>“Structural basis for integration of GluD receptors within synaptic organizer complexes”</i>

16:55 – 17:10	ST4	Haruka Munezane (The Univ of Tokyo, Japan) <i>“The elucidation of the physiological function of CLAC-P/collagen XXV in neuromuscular development”</i>
17:10 – 17:25	ST5	William P Dempsey (Univ of South California, USA) <i>“In vivo single-cell labeling by confined primed conversion”</i>
17:30 – 18:45	Poster session with coffee	
18:45 – 20:30	Party for all participants & informal discussion	

October 28 (Fri)

Session 7: Synaptic imaging and manipulation II

Chair: Akihiko S Kato (Lilly Research Laboratory, USA)

9:00 – 9:35	S17	Junichi Nakai (Saitama Univ, Japan) <i>“in vivo calcium imaging with genetically encoded calcium indicators and optogenetics”</i>
9:35 – 10:10	S18	Don B Arnold (Univ of South California, USA) <i>“Visualizing and ablating synapses in vivo using novel recombinant probes”</i>
10:10 – 10:25	ST6	Alvaro Carrier-Ruiz (The Univ of Tokyo, Japan) <i>“Dentate granule cell activity during fear memory retrieval and extinction in freely moving mice”</i>
10:25 – 10:40	Coffee Break	

Session 8: Synaptic circuit

Chair, Toshiya Manabe (The Univ of Tokyo, Japan)

10:40 – 11:15	S19	Yumiko Yoshimura (NIPS, Japan) <i>“High reciprocal connectivity between clonal cortical neurons is established under the guidance of epigenetic regulation”</i>
11:15 – 11:50	S20	Haruhiko Bito (The Univ of Tokyo, Japan) <i>“A critical role for activity-dependent Arc expression in long-term memory via inverse synaptic tagging”</i>
11:50 – 11:55	Closing remarks Masaki Fukata (NIPS, Japan)	
11:55	Departures	

Presentation time, 25 min talk + 10 min discussion

Special lecture, 40 min talk + 10 min discussion

Short talk, 12 min talk + 3 min discussion

Poster Presentations

P, Poster#; ST, Short talk#; FT, Flash talk#

Poster titles will be shown in the on-site program book.

P1-ST1

Joe Ziminski, Sabine Hessler, Meike Sieburg, Gabriella Margetts-Smith, Hans S Crombag, and Eisuke Koya

P2-ST2

Kazuhiko Yamaguchi, Shigeyoshi Itohara, and Masao Ito

P3-ST3

Shigeki Kiyonaka, Sho Wakayama, Itaru Arai, Wataru Kakegawa, Michisuke Yuzaki and Itaru Hamachi

P4-ST4

Haruka Munezane, Hiroaki Oizumi, Tomoyuki Yoshida, Tomoko Wakabayashi, Takeshi Iwatsubo

P5-ST5

William P Dempsey, Lada Georgieva, Patrick M Helbling, Ali Y Sonay, Thai V Truong, Michel Haffner, Periklis Pantazis

P6-ST6

Alvaro Carrier-Ruiz, Yuki Sugaya and Masanobu Kano

P7-FT1

Yoshihisa Nakahata, Kei Eto, Miho Watanabe, Hideji Murakoshi, Toshihiko Kuriu, Hiromi Hirata, Hitoshi Ishibashi and Junichi Nabekura

P8-FT2

Rizki Tsari Andriani and Yoshihiro Kubo

P9-FT3

Akihiro Shibata, Hideji Murakoshi

P10-FT4

Ryohei Akiyoshi, Hiroaki Wake, Daisuke Kato and Junichi Nabekura

P11-FT5

Hiromi Sano, Kenji F Tanaka and Atsushi Nambu

P12-FT6

Mai Handa-Narumi, Takeshi Yoshimura, Tomohiro Torii, Hiroyuki Konishi, Hiroshi Kiyama and Kazuhiro Ikenaka

P13-FT7

Tadahiro Nagaoka and Masashi Kishi

P14-FT8

Kazuki Obashi, Yasuhiro Inoue and Shigeo Okabe

P15-FT9

Jun Tsunoda, Chihong Song, Fabiana Lica Yakushiji, Takeshi Murata, Hiroshi Ueno, Junichi Takagi, Ryota Iino, Kazuyoshi Murata

P16-FT10

Kei Nakayama, Manabu Abe, Maya Yamazaki, Akihiro Fujikawa, Masaharu Noda, Akira Futatsugi, Katsuhiko Mikoshiba, Kenji Sakimura and Nobuyuki Shiina

P17-FT11

Hiroyuki Inada, Go Kato, Junichi Nabekura

P18-FT12

Etsuko Tarusawa, Makoto Sanbo, Masumi Hirabayashi, Takeshi Yagi and Yumiko Yoshimura

P19

Natsumi Ageta-Ishihara and Makoto Kinoshita

P20

Takeshi Yoshimura and Kazuhiro Ikenaka

P21

Kenta Kobayashi, Hiromi Sano, Shigeki Kato, Keisuke Kuroda, Shinichi Nakamura, Tadashi Isa, Atsushi Nambu, Kozo Kaibuchi and Kazuto Kobayashi

P22

Yoko Yamagata, Yuchio Yanagawa and Keiji Imoto

P23

Akiyuki Nishimura, Caloline Sunggip, Takuro Numaga-Tomita and Motohiro Nishida

P24

Takuro Numaga-Tomita, Naoyuki Kitajima, Akiyuki Nishimura and Motohiro Nishida

P25

Yuko Fukata, Norihiko Yokoi, Atsushi Sekiya, Tatsuro Murakami, Kenta Kobayashi and Masaki Fukata

P26

Norihiko Yokoi, Yuko Fukata, Daisuke Kase, Taisuke Miyazaki, Martine Jaegle, Keiji Imoto, Dies Meijer, Masahiko Watanabe, Masaki Fukata

Preparation for poster, flash talk & short talk presentations

<Poster>

Poster boards are 90 cm in width X 120 cm in height.

Please display your poster from 15:00, Oct 26 (during the coffee break) in Room B, Okazaki Conference Center, and keep your poster on the board for 3 days.

Core time for the presentation is from 17:30 to 18:45 on Oct 27.

<Flash talk>

Prepare a 1 slide presentation in English. Your presentation will be 2 minutes in length (please note that 2 min includes the time for presenters exchanging). This session has no discussion time.

Please send electric files (microsoft Powerpoint file and pdf file) for one presentation slide to kasosei@nips.ac.jp by Oct 18 5:00 PM. Our Symposium office will attach a slide showing your name and affiliation with your slide. All the slides for Flash talk will be assembled in and presented with our Symposium's MacBookAir.

Flash talk session will begin at 17:35 on Oct 26.

All the Flash talk presenters are requested to come to the stage of main hall (Room A) at 17:30 on Oct 26 and wait in order of the presentation number (FT1-FT12).

<Short talk>

Short talk presentation will be 12 min talk and 3 min discussion.

*Please use your own laptop computer. Please bring and set your computer before the session begins. Speakers are requested to be seated in the next speaker's seat area during the session