

Ministry of Education, Culture, Sports, Science and Technology
Grants-in-Aid for Scientific Research
Grant-in-Aid for Scientific Transformational Research (A)
Cell type census of adaptive neuronal circuits:
biological mechanisms of structural and functional organization
(Adaptive Circuit Census, ACC)
(2021~2025)

ACC International Symposium 2025

Date: January 24 (Fri) – 25 (sat), 2025

Venue: Brain Science Institute Ikenohata Building, RIKEN Wako Campus
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ACC International Symposium 2025

Date: January 24 (Fri) – 25 (Sat), 2025

Venue: Brain Science Institute Ikenohata Building, RIKEN Wako Campus

Day1 Jan 24

8:30-9:30 Registration (Poster setup)

9:30-9:40 Opening Remarks by Dr. Shimogori

Session1 (Session Chair: Takuya Sasaki, Tohoku Univ.)

9:40-10:10 Ai Nakashima (Graduate School of Pharmaceutical Sciences, University of Tokyo)

"Decoding spontaneous activity patterns for OR-specific glomerular segregation "

10:10-10:40 Takeshi Yagi (Graduate School for Frontier Biosciences, The University of Osaka)

"Neuronal individuality by clustered protocadherins"

[10:40-11:00 *Coffee Break*]

Session2 (Session Chair: Yasuhiro Go, ExCELLS, NINS)

11:00-11:30 Yidi Sun (Center for Excellence in Brain Science and Intelligence Technology)

"*Characterization of the cellular and molecular diversity during the primate evolution*"

11:30-12:00 Nariko Arimura (Department of Pharmacology, Graduate School of Pharmaceutical Science, Tohoku University)

"DSCAM as a Key Regulator of Neural Delamination and Synaptic Connectivity"

12:00-13:30 *Lunch Break* (Poster setup completion)

Plenary talk (Chair: Tomomi Shimogori, RIKEN CBS)

13:30-14:40 Mark Anderson (Neuro Restore, Swiss)

"*Regenerating the spinal cord*"

[14:40-15:00 *Coffee Break*]

Session3 (Session Chair: Yoshikazu Isomura, Institute of Science Tokyo)

15:00-15:30 Alessio Delogu (King's College London, UK)

"Sparse GABAergic interneurons in the mouse somatosensory thalamus. too few to count?"

15:30-16:00 Andre Sousa (University of Wisconsin-Madison, USA)

"Multimodal analyses reveal genes driving electrophysiological maturation of neurons in the primate prefrontal cortex"

16:00-17:30 *Poster Session*

17:30- Social Hour (Venue: TBA)

Day2 Jan 25

9:00-9:10 Opening Remarks

Session4 (Session Chair: Ai Nakashima, Univ. of Tokyo)

9:10-9:40 Jiefu Li (Janelia Research Campus, USA)

"Spatially-Resolved Proteomics of the Brain: Methods, Proteomes, and Mechanistic Discoveries"

9:40-10:10 James Bourne

"Pulvinar Control of Cortical Maturation: Unraveling the Dopamine-Driven Development of Parvalbumin Interneurons"

[10:10-10:30 *Coffee Break*]

Session5 (Session Chair: Kazuto Kobayashi, Fukushima Med Univ.)

10:30-11:00 Yusuke Kishi (IQB, The University of Tokyo)

"Epigenetic regulation during neuronal aging"

11:00-11:30 Yuki Itoh (Institute for Advanced Study, MIB, Kyushu University)

"Neural circuit-specific synaptic proteome analysis using proximity labeling"

[11:30-13:00 *Lunch Break & Luncheon Seminar*]

Session6 (Session Chair: Hideaki Shimazaki, Kyoto Univ.)

13:00-13:30 Fumino Fujiyama (Faculty of Medicine and Graduate School of Medicine Hokkaido University)

"Morphological Re-evaluation of Basal Ganglia"

13:30-14:00 Hiroki Asari (EMBL, Italy)

"Atypical cortical feedback underlies failure to process contextual information in the superior colliculus of Scn2a^{+/-} autism model mice"

14:00- Closing Remarks by Dr. Isomura

Poster Removal

Note: All sessions except the Plenary Talk consist of 20-25 min presentation + discussion (total 30 min)

Time Table

Day1 Jan 24

8:30-9:30	Registration (Poster setup)
9:30-9:40	Opening Remarks
9:40-10:10	Ai Nakashima
10:10-10:40	Takeshi Yagi
10:40-11:00	*Coffee Break*
11:00 -11:30	Yidi Sun
11:30 -12:00	Nariko Arimura
12:00-13:30	*Lunch Break*
13:30 -14:40	Mark Anderson
14:40-15:00	*Coffee Break*
15:00 -15:30	Alessio Delogu
15:30-16:00	Andre Sousa
16:00 -17:30	*Poster Session*
17:30	Academic Exchange (Venue: TBA)

Day2 Jan 25

9:00-9:10	Opening Remarks
9:10-9:40	Jiefu Li
9:40-10:10	James Bourne
10:10-10:30	*Coffee Break*
10:30-11:00	Yusuke Kishi
11:00-11:30	Yuki Itoh
11:30-13:00	*Lunch Break & Luncheon Seminar*
13:00-13:30	Fumino Fujiyama
13:30-14:00	Hiroki Asari
14:00	Closing Remarks Poster Removal