International Symposium "Neocortical Organization"

March 10, 2012 (Sat)

10:00-10:20 Tetsuo Yamamori: Introduction of the Scientific Research on Innovative Areas "Neural Diversity and Neocortical Organization"

1. Neural Precursors and their Early Fate Determination

	Chair : Noriko Osumi and Yukiko Gotoh	
10:20-11:00	Ryoichiro Kageyama (Kyoto University)	
	Regulatory Mechanism of Embryonic and Adult Neural Stem Cells	
11:00-11:40	Makoto Noda (Kyoto University)	
	Involvement of the Extracellular Matrix Regulator Reck in Cerebral Cortex	
	Formation and Adult Neurogenesis	
11:40-12:20	Fumio Matsuzaki (RIKEN CDB)	
	Transitions in Division Mode of Neural Progenitors during Cortical Development	
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12:20-13:30	Lunch	
	Chair : Marta Nieto and Takuya Shimazaki	
13:30-14:10	Noriko Osumi (Tohoku University)	
	Molecular and Cellular Mechanisms of Mammalian Cortical Neurogenesis Based on	
	the Morphology of Radial Progenitor Cells	
14:10-14:50	Yukiko Gotoh (University of Tokyo)	
	Faithful Coupling of Neuronal Fate Commitment and the Onset of Neuronal	
	Migration during Neocortical Development	
14:50-15:35	François Guillemot (MRC National Institute for Medical Research)	
	Transcriptional Regulation of Stem Cell Divisions in the Embryonic and Adult	
	Brain	
15:35-15:55	Coffee Break	
13.33-13.33	Conce Break	
	Chair : Ryoichiro Kageyama and François Guillemot	
15:55-16:30	Carina Hanashima (RIKEN CDB)	
	Regulation of Early Identity Transition in the Cerebral Cortex	

16:30-17:10 Takuya Shimazaki (Keio University)
 Temporal Specification of CNS Stem Cells
 17:10-17:55 Marta Nieto (Centro Nacional de Biotecnología)
 How Cux TFs can Determine Cortical Circuits

March 11, 2012 (Sun)

2. Neural Precursors and their Late Fate Determination

	Chair : Franck Polleux and Fujio Murakami	
9:30-10:10	Hideyuki Okano (Keio University)	
	Corticogenesis of Common Marmoset	
10:10-10:55	Arnold R. Kriegstein (University of California, San Francisco)	
	Neural Stem and Progenitor Cells in Human Cortical Development and Evolution	
10:55-11:40	Song-Hai Shi (Memorial Sloan-Kettering Cancer Center)	
	Neocortex Development: from Neurogenesis to Microcircuit Assembly	
11:40-13:10	Lunch	

3. Neural Precursors and Determination of the Specificity of Neural Projections

	Chair : Song-Hai Shi and Masayuki Masu
13:10-13:55	Franck Polleux (The Scripps Research Institute)
	Inhibition of SRGAP2 Function by its Human-specific Paralogs Induces Neoteny of
	Spine Maturation
13:55-14:35	Kozo Kaibuchi (Nagoya University)
	Neuronal Polarity: from Extracellular Signals to Intracellular Mechanisms
14:35-15:10	Fujio Murakami (Osaka University)
	Migration, its Termination, Axon Initiation and Maturation of Cortical Interneurons
15:10-15:30	Coffee Break
	Chair : Makoto Noda and Kozo Kaibuchi
15:30-16:10	Masayuki Masu (University of Tsukuba)
	Heparan Sulfate Modification by Endosulfatases are Required for Cortical Axon
	Guidance

16:10-16:50 Hitoshi Sakano (University of Tokyo)

Developmental Regulation of Axon Wiring in the Mouse Olfactory System

4. Neural Connections

		Chair : Makoto	Noda and Kozo Kaibuchi
16:50-17:30	Ikue Mori (Nagoya Universit	y)	
	Molecular Dissection of Neur	cal Coding Underlying E	Behavior
17:30-18:10	10 Masanobu Kano (University of Tokyo)		
	Refinement of Climbing Fibe	r to Purkinje Cell Synap	oses during Postnatal Cerebellar
	Development		
19:00-21:00	Mixing and Discussion	(invited speakers)	at New Grand Hotel

March 12, 2012 (Mon)

	Chair : Yuji Ikegaya and Yasuo Kawaguchi
9:30-10:10	Junichi Nabekura (National Institute for Physiological Sciences)
	Dynamics of Synapse Remodeling and Glia Motility in vivo
10:10-10:50	Masanori Matsuzaki (National Institute for Basic Biology)
	Spatial and Temporal Structure of Cortical Microcircuit Activity for Generating
	Voluntary Movement
10:50-11:30	Yuji Ikegaya (University of Tokyo)
	Microscopic Architecture of Cortical Microcircuitry
11:30-12:15	Rafael Yuste (Columbia University)
	Dense, Unspecific Inhibitory Connectivity in Neocortex
12:15-13:30	Lunch
	Chair : Junichi Nabekura and Masanori Matsuzaki
13:30-14:05	Yoshiaki Tagawa (Kyoto University)
	Activity-dependent Circuit Construction in Neonatal Mouse Cerebral Cortex
14:05-14:45	Yasuo Kawaguchi (National Institute for Physiological Sciences)
	Thalamocortical Subnetwork Activities in Slow Waves and Desynchronization

15:00-18:00	Poster Session
18:30-20:30	Banquet

March 13, 2012 (Tue)

5. Brain Formation

	Chair : Christopher Gregg and Ikue Mori	
9:30-10:10	Shinichi Aizawa (RIKEN CDB)	
	Initial Brain Regionalization	
10:10-10:55	Alex P. Gould (MRC National Institute for Medical Research)	
	Food for Thought: Nutrients and Neural Stem Cells in Drosophila	
10:55-11:35	:35 Masayoshi Mishina (University of Tokyo)	
	Synapse Organizers of the Brain	
11:35-13:00	Lunch	
	Chair : Alex P. Gould and Masayoshi Mishina	
13:00-13:45	Christopher Gregg (University of Utah)	
	Maternal and Paternal Gene Networks in the Brain	
13:45-14:30	Takao Hensch (Harvard University)	
	Shaping Neural Circuits by Early Experience	
14:30-15:10	Tetsuo Yamamori (National Institute for Basic Biology)	
	Genes Selectively Expressed in Regions of Primate Neocortex: the Functions and	
	Implication for Cortical Specialization	
15:10-15:30	Concluding Remarks	