Program at a Glance

	8:30	10:00 12:00		13:00		15:20 17:3	30	18:00		20-
Jun 9 Thu				30 Shuttle bus → Hilton Niseko Village)		Opening ceremony [Hokkaido]		YRF [Roo m A]		
				Reception desk open [Yotei]			[]			
Jun 10 Fri	Plenary 1,2 [Hokkaido]	Neuronal Impulse, Patterns & Bifurcation s [Room A]		Integrative & Multi-level Approaches for Cognitive Neurodynam ics [Room A]		poster voting (Odd:15:20-16: Le				
		Model Complexity in Neural Network Phenomen a [Room B]		Toward Understandin g of Intelligence: Collaboration between Neuroscience & Robotics [RoomB]			7:30-19:30 Invited Lecture lokkaido]		Poster removal	
		DBF-1 [Room C]		DBF-2 [Room C]						
Jun 11 Sat	Plenary 3,4 [Hokkaido]	Spatiotemp oral Network Dynamics [Room A] Shaping Embodied Neurodyna mics Through Interaction [Room B] DBF-3 [Room C]	Edi tori al Me eti ng			irsion iotel lobby		Banque [Hokkaid		
Jun 12 Sun	Plenary 5,6 [Hokkaido]	Mathemati cal & Statistical Aspects of Neurodyna mics (1) [Room A] Neural Basis of		Mathematica I & Statistical Aspects of Neurodynam ics (2) [Room A]		Dynamic Patterns of Neural Activity in Human Information Processing [Room A]	Closing ceremor [Hokkaic		iy [Roo	
		Biological Timing [Room B] DBF-4 [Room C]		DBF-5 [Room C]		DBF-6 [Room C]				
Jun 13 Mon	9:00), 11:30 Shuttle	e bus	(Hilton Niseko \	/il	lage $ ightarrow$ New Ch	ito	se Airport)		

Plenary Lectures

PL1 Artificial cognitive systems with active learning and situation awareness capabilities

June 10 (Fri) 8:30-9:10 Room Hokkaido Soo-Young Lee Department of Electrical Engineering, Department of Bio & Brain Engineering, Brain Science Research Center, Korea Advanced Institute of science and Technology, Korea

Chairperson: Pitoyo Hartono

PL2 Dynamic neuronal representation in the prefrontal cortex

June 10 (Fri) 9:15-9:55 Room Hokkaido

Hajime Mushiake

 $^1 \rm Department$ of Physiology, Tohoku University School of Medicine, Japan 2 CREST, JST, Tokyo, Japan

Chairperson: Masamichi Sakagami

PL3 Timing at multiple scales in olfactory perception

June 11 (Sat) 8:30-9:10 Room Hokkaido Leslie M Kay Institute for Mind and Biology and Department of Psychology, The University of Chicago, Chicago, USA

Chairperson: Kazuyuki Aihara

PL4 Structure, stability, dynamics, and geometry in brain networks

June 11 (Sat) 9:15-9:55 Room Hokkaido **Peter Robinson** ¹ School of Physics, University of Sydney, Australia ² Brain Dynamics Center, Sydney Medical School - Western, University of Sydney, Australia

Chairperson: Hans Lijenstrom

PL5 Neuropercolation approach to singular space-Time dynamics of cortical processes

June 12 (Sun) 8:30-9:10 Room Hokkaido

Roboer Kozma

¹ Department of Mathematical Sciences, The University of Memphis, USA ² CLION - Center for Large-Scale Integrated Optimization and Networks, USA

Chairperson: Peter Erdi

PL6 Impact of postnatal and adult neurogenesis on animal behavior

June 12 (Sun) 9:15-9:55 Room Hokkaido

Noriko Ohsumi

Tohoku University School of Meeidine, Japan

Chairperson: Hiroshi Fujii

Invited Lectures

June 10 (Fri) 17:30-19:30 Room Hokkaido

ECoG Patterns in short-term (STM) vs. long-term (LTM) Memory Formation

Walter J Freeman University of California, USA

Chairperson: Shigetoshi Nara

Mathematical Theory of Neural Networks— A Personal and Historical Survey

Shun-ichi Amari

Lab. for Mathematical Neuroscience, RIKEN Brain Science Institute (BSI), Japan

Chairperson: Cees van Leeuwen

Memory Information Representation in the Hippocampus Minoru Tsukada

Brain Science Institute, Tamagawa University, Japan

Chairperson: Barry J Richmond

Friday (Day1) Morning Sessions

Room A FriAm-A1 10:00	Neuronal Impulse Patterns, Bifurcations , Chair: Takeshi Aihara Dendritic dimensions and signal conduction properties of cortical nonpyramidal cells. <i>Yoshiyuki Kubota, Fuyuki Karube, Masaki Nomura, Allan T.</i>
FriAm-A2 10:20	<i>Gulledge, Atsushi Mochizuki, Yasuo Kawaguchi</i> A Computational study of the role of the Sub-thalamic Nucleus in behavioral switching during saccadic movements. <i>Maithreye Rengaswamy, Srinivasa Chakravarthy</i>
FriAm-A3 10:40	Estimating network weights from the inverse phase synchronization index matrix.
FriAm-A4 11:00	Won Sup Kim, Xue-Mei Cui, Chang No Yoon, Xuan Hung Ta, Seung Kee Han Spiking neural network ink drop spread spike-IDS. Mohsen Firouzi, Saeed Bagheri Shouraki, Mohammad Ghomi Rostami.
FriAm-A5 11:20	A biophysical model of neuro-glial-vascular interactions. Bankim Chander, Srinivasa Chakravarthy
Room B	Model Complexity in Neural Network Phenomena, Chair: Changsong Thou
FriAm-B1 10:00	<i>Changsong Zhou</i> Model complexity in the study of neural network phenomena. <i>Claus C. Hilgetag, Changsong Zhou.</i>
FriAm-B2 10:20	From spiking neurons to neural fields: Bridging the gap to achieve faster simulations of neural systems. <i>Peter Robinson, Jong Won Kim</i> .
FriAm-B3 10:40	Multi-population network models of the cortical microcircuit. Tobias Potjans, Markus Diesmann.
FriAm-B4 11:00	Attentional cholinergic projections may induce transitions of attractor landscape via presynaptic modulations of connectivity. <i>Hiroshi Fujii, Takashi Kanamaru, Kazuyuki Aihara, Ichiro Tsuda</i>
FriAm-B5 11:20	Effects of ion channel block on the propagation of neuronal activity in a feedforward network. <i>Muhammet Uzuntarla, Mahmut Ozer, Etem Koklukaya</i> .
Room C FriAm-C1 10:00	Dynamic Brain Forum (1) , Chair: Ichiro Tsuda Heterogeneity-induced pulse generators. Yasumasa Nishiura, Takashi Teramoto, Masaaki Yadome.
FriAm-C2 10:20	Designing plasticity and robustness through evolution and learning. <i>Kunihiko Kaneko</i> .
FriAm-C3 10:40	Influence of the endogenous acetylcholine on STDP induction. Takeshi Aihara, Eriko Sugisaki, Yasuhiro Fukushima, Minoru Tsukada
FriAm-C4 11:00	Transition dynamics in spatial choice. Jan Lauwereyns.
FriAm-C5 11:20-12:00	Perseveration of complex response sequences as a mechanism underlying 34-Methylenedioxymethamphetamine (MDMA or "ecstasy") induced memory impairments. <i>David Harper</i> .

Friday (Day1) Afternoon Sessions

Room A	Integrative and Multi-Level Approaches for Cognitive Dynamics, Chair: Yoshiyuki Asai
FriPm1-A1 13:00	Using selective ablations to infer neuronal circuit processing and information flow about predicted reward outcomes of ongoing behavior. <i>Barry Richmond</i>
FriPm1-A2 13:20	Learning and memory phenomena in a complex sensory environment: a transdisciplinary approach. <i>Alessandro Villa, Vladyslav Shaposhnyk</i>
FriPm1-A3 13:40	Noise and chaos in mesoscopic brain dynamics - possible relevance for mental disorders. <i>Hans Liljenstrom</i>
FriPm1-A4 14:00	Physiologically-based modeling of shift workers • sleepiness. Svetlana Postnova, Peter Robinson
FriPm1-A5 14:20	Conductance-based models of neurones and synapses as the basis of multi-level simulations. <i>Hans Albert Braun, Karl Voigt, Svetlana Postnova</i>
FriPm1-A6 14:40	Towards a modeling and simulation platform for multi-level neuronal networks. Yoshiyuki Asai, Hideki Oka, Taishin Nomura, Hiroaki Kitano
Room B	Toward Understanding of Intelligence: Collaboration Between Neuroscience and Robotics, Chair: Hironori Nakatani
FriPm1-B1 13:00	Neural synchrony for expert memory in shogi (Japanese chess) players. <i>Hironori Nakatani, Yoko Yamaguchi</i>
FriPm1-B2 13:20	Neuronal synchrony during the planning and execution period in the prefrontal cortex. <i>Kazuhiro Sakamoto, Katsutoshi Yamamoto, Naohiro Saito, Kazuyuki Aihara, Jun Tanji, Hajime Mushiake</i>
FriPm1-B3 13:40	A constructive approach for investigating the emergence of role division in social interactions. <i>Kenichi Minoya, Takaya Arita, Takashi Omori</i>
FriPm1-B4 14:00	Estimating similarity judgment processes based on neural activities measured by near-infrared spectroscopy (NIRS). <i>Yoshihiko Suzuki, Shohei Hidaka</i>
FriPm1-B5 14:20	Autonomous robot with internal topological representation. Pitoyo Hartono, Thomas Trappenberg
FriPm1-B6 14:40	SUDOKU puzzle: the neurodynamics of intelligence to choose the right solution from many possible options in a hypothetical reasoning. <i>Hiroaki Wagatsuma</i>
Room C	Dynamic Brain Forum (2), Chair: Jan Lauwereyns
FriPm1-C1 13:00-13:40	Meta-stable states in taste processing. Donald Katz
FriPm1-C2 13:40-14:20	The schizophrenic brain: A broken hermeneutic circle.Zyxwvusome new insights and results. <i>Peter Erdi, Mihaly Banyai, Vaibhav Diwadkar</i>
FriPm1-C3 14:20-14:40	Multiple neural circuits in value-based decision-making. Masamichi Sakagami
FriPm1-C4 14:40-15:00	Towards understanding of neural dynamics in communicating brains. <i>Ichiro Tsuda</i>

Saturday (Day2) Morning Sessions

Room A SatAm-A1 10:00	Spatiotemporal Network Dynamics, Chair: Claus C. Hilgetag Modular organization enables both self-Organized criticality and oscillations in neural systems. <i>Shengjun Wang, Claus C. Hilgetag, Changsong Zhou</i>
SatAm-A2 10:20	Traveling waves on locally connected chaotic neural networks and their phenomenological modeling. <i>Makito Oku, Kazuyuki Aihara</i>
SatAm-A3 10:40	Spatial fiLtering by a two-dimensional interconnected network with spike timing dependent synaptic plasticity depending on its temporal properties. <i>Kazuhisa Fujita</i>
SatAm-A4 11:00	Neural model for hierarchical processing of auditory information in mammal's cortex. Yusuke Hara, Yoshiki Kashimori
SatAm-A5 11:20	Modeling dynamics of the human limbic system. Mark Myers, Robert Kozma
Room B	Shaping Embodied Neurodynamics Through Interactions, <i>Chair: Hiroki Mori</i>
SatAm-B1 10:00	Infant"s primitive walking reflex from the perspective of learning in the uterus. <i>Hiroki Mori, Yasuo Kuniyoshi</i>
SatAm-B2 10:20	Socially developmental robot based on self-Induced contingency with multi latencies. <i>Hidenobu Sumioka, Yuichiro Yoshikawa, Masanori Morizono, Minoru Asada</i>
SatAm-B3 10:40	On the brain's dynamical complexity: coupling and causal influences across spatiotemporal scales. <i>Emmanuelle Tognoli, J.A. Scott Kelso</i>
SatAm-B4 11:00	Development of infant robot with musculoskeletal and skin system. Kenichi Narioka, Soichiro Moriyama, Koh Hosoda
SatAm-B5 11:20	Formulating a cognitive branching task by MTRNN: A robotic neuroscience experiments to simulate the PFC and its neighboring regions. <i>Fady Alnajjar, Yuichi Yamashita, Jun Tani</i>
SatAm-B6 11:40	Neurodynamical account for altered awareness of action in schizophrenia: a synthetic neuro-roboic study. <i>Yuichi Yamashita, Jun Tani</i>
Room C	Dynamic Brain Forum (3), Chair: Jan Lauwereyns
SatAm_C1	Cross episode coupling of distinct recollections in hippocampal ensemble

SatAm-C1 10:00-10:40	Cross-episode coupling of distinct recollections in hippocampal ensemble representations. <i>Andre Fenton</i>
SatAm-C2 10:40-11:20	The encoding of intended destinations by neurons in the hippocampus. <i>Paul A. Dudchenko, Emma R. Wood, David Bett</i>
SatAm-C3	The dynamics of deliberation.

11:20-12:00 David Redish

Sunday (Day3) Morning Sessions

Room A	Mathematical and Statistical Aspects of Neurodynamics (1), Chair: Shun-ichi Amari
SunAm-A1 10:00	Robust computation in two-dimensional neural field. Yuzuru Sato, Shun-ichi Amari
SunAm-A2 10:20	Dynamical synapses enhance neural computation. Chi Chung Alan Fung, K. Y. Michael Wong, Si Wu
SunAm-A3 10:40	Input dependent variability in a model of the striatal medium spiny neuron network. <i>Adam Ponzi, Jeff Wickens</i>
SunAm-A4 11:00	Selection criteria for neuromanifolds of stochastic dynamics. <i>Nihat Ay, Guido Montufar, Johannes Rauh</i>
SunAm-A5 11:20	A manipulative approach to neural dynamics by combined TMS-EEG. Keiichi Kitajo, Yumi Nakagawa, Yutaka Uno, Ryohei Miyota, Masanori Shimono, Kentaro Yamanaka, Yoko Yamaguchi
Room B	Neural Basis of Biological Timing, Chair: Ken-ichi Honma
SunAm-B1 10:00	Oscillator cell networks in the hypothalamic suprachiasmatic nucleus the mammalian circadian clock. <i>Sato Honma, Daisuke Ono, Ken-ichi Honma</i>
SunAm-B2 10:20	Oscillator network modeling of circadian rhythm in the suprachiasmatic nucleus. Isao Tokuda, Hirokazu Fukuda, Naoto Hayasaka
SunAm-B3 10:40	Underlying mechanism that generates a phase wave in the mammalian circadian center. Yasufumi Shigeyoshi, Satoshi Koinuma, Takeshi Asakawa, Koh-hei Masumoto, Mamoru Nagano
SunAm-B4 11:00	Toward in silico modeling of suprachiasmatic nucleus. Mitsuyuki Nakao, Akihiro Karashima, Norihiro Katayama
SunAm-B5 11:20	In vivo monitoring of circadian output in clock mutant mice. <i>Wataru Nakamura</i>
SunAm-B6 11:40	Design principle of precise neural clocks. Hiroshi Kori, Yoji Kawamura, Naoki Masuda
Room C	Dynamic Brain Forum (4), Chair: Ichiro Tsuda
SunAm-C1 10:00	Correlated brain activations during formation of memory for future plans. <i>Jiro Okuda, Maki Suzuki, Toshikatsu Fujii</i>
SunAm-C2 10:20	Cognitive modeling of human-robot interaction estimating other's internal state. Takashi Omori, Ayami Yokoyama, Kasumi Abe, Takayuki Nagai.
SunAm-C3 10:40	Symbol communication systems integrate implicit information in coordination tasks. Takeshi Konno, Junya Morita, Takashi Hashimoto
SunAm-C4 11:00	A model study on multiple frequency phase synchronization of human EEG. Yoko Yamaguchi, Masahiro Kawasaki, Yuichiro Yamanaka, Keiihci Kitajo, David Taiwai Chik
SunAm-C5 11:20	Intermittent brain motor control observed in continuous tracking task. Yutaka Sakaguchi
SunAm-C6 11:40	Molecular and neural mechanisms for behavioral choice between two conflicting alternatives in C. elegans. <i>Takeshi Ishihara</i>

Sunday (Day3) Afternoon Sessions I

Room A	Mathematical and Statistical Aspects of Neurodynamics (2), Chair: Taro Toyoizumi
SunPm1-A1 13:00	Mean-field approximations for coupled populations of GLM spiking neurons with Markov refractoriness. <i>Taro Toyoizumi</i>
SunPm1-A2 13:20	Long-tailed statistics of corticocortical EPSPs: Origin and computational role of noise in cortical circuits. <i>Jun-nosuke Teramae, Yasuhiro Tsubo, Tomoki Fukai</i>
SunPm1-A3 13:40	Lognormal-like distributions of synaptic weights and STDP in recurrent neuronal networks. <i>Matthieu Gilson, Tomoki Fukai</i>
SunPm1-A4 14:00	On a theory of precise neural control in a noisy system. Wenlian Lu, Shun-ichi Amari, David Waxman, Jianfeng Feng
SunPm1-A5 14:20	Dynamic logic for "Vague-to-Crisp" perception and dynamics of operant (selectionist) learning. Roman Ilin, Leonid Perlovsky, Robert Kozma, Jun Zhang
SunPm1-A6 14:40	Real-time wireless sonification of brain signals. <i>Mohamed Elgendi, Brice</i> <i>Rebsamen, Francois Vialatte, Andrzej Cichocki, Justin Dauwels</i>
Room C	Dynamic Brain Forum (5), Chair: Jan Lauwereyns
SunPm1-C1 13:00-13:40	Collective neural oscillations: mechanisms and functionality. Jordi Garcia-Ojalvo
SunPm1-C2 13:40-14:20	The phase space of lateral thought. Eleonora Russo, Alessandro Treves
SunPm1-C3	Learning and decisions as functional states of cortical circuits.

14:20-15:00 Jose Maria Delgado-Garcia, Raudel Sánchez-Campusano, Agnès Gruart i Massó

Sunday (Day3) Afternoon Sessions II

Room A	Dynamic Patterns of Neural Activity in Human Information Processing, Chair: Cees van Leeuwen
SunPm2-A1 15:20	Self-organizing dynamic neural fields. Nicolas Rougier, Georgios Is. Detorakis
SunPm2-A2 15:40	Spontaneous EEG activity and biases in perception of supra-threshold stimuli. <i>Andrey Nikolaev, Sergei Gepshtein, Cees van Leeuwen</i>
SunPm2-A3 16:00	Functional roles of corticofugal plasticity in detecting a moving target in bat's auditory system. Yoshitaka Muto, Yoshihiro Nagase, Yoshiki Kashimori
SunPm2-A4 16:20	The origin of the spatial pattern of amplitudes in trial-averaged MEG. David M. Alexander, Peter Jurica, Andrey R. Nikolaev, Mikhail Zvyagintsev, Klaus Mathiak, Cees van Leeuwen
SunPm2-A5 16:40	Rhythm matters: A case in attentional blink. Chie Nakatani, Cees van Leeuwen
SunPm2-A6 17:00	Complex network topology and dynamics in networks supporting precisely-timed activity patterns. Chris Trengove, Cees van Leeuwen, Markus Diesmann
Room C	Dynamic Brain Forum (6), Chair: Ichiro Tsuda
SunPm2-C1 15:30-16:10	Exploring phase shifts in mesoscopic brain dynamics - For deeper understanding of brain-mind relations. <i>Hans Liljenstrom</i>
SunPm2-C2 16:10-16:50	An information theoretic approach to prediction and deliberative decision-making of embodied systems. <i>Nihat Ay, Keyan Zahedi</i>
SunPm2-C3 16:50-17:20	Cell assemblies in the neostriatal network. Jeff Wickens, Adam Ponzi

Poster Session

June 10 (Fri) PM 3:20-5:20 Poster Room ("Yotei")

Core time (Odd paper ID : 15:20-16:20, Even paper ID: 16:20-17:20)

- P01 Ongoing global phase pattern and visual signal detection. Daisuke Shimaoka, Keiichi Kitajo, Kunihiko Kaneko, Yoko Yamaguchi
- P02 Model on visualization and analysis for peripheral drift illusion. *Keiichiro Inagaki, Shiro Usui*
- P03 Saccade related cortical potential by cued movements and free movements. Arao Funase, Andrzej Cichocki, Ichi Takumi
- P04 Differentiation through symbolic communication. *Takuma Torii, Takashi Hashimoto*
- P05 Theoretical analysis of phase resetting on Matsuoka oscillators. *Kazuki Nakada, Yasuomi Sato, Kiyotoshi Matsuoka*
- P06 "Memories as Bifurcations": A simple model. *Tomoki Kurikawa, Kunihiko Kaneko*
- P07 Biologically inspired closed-loop model of precision grip lifting task. Ankur Gupta, Manikanta Avinash, Deepa Ranjith, Muthu Kumar, Suresh Devasahayam, K. Srinivasa Babu, V. Srinivasa Chakravarthy
- P08 A communicative model: Can we interpret neural dynamics of understanding?. *Yongtao Li, Ichiro Tsuda*
- P09 Intermittent update of target representation during manual tracking task. *Tetsumasa Asano, Jun Izawa, Yutaka Sakaguchi*
- P10 Multi-Dynamics learning algorithm based on SOM2. *Satoshi Matsushita, Takashi Ohkubo, Tetsuo Furukawa*
- P11 Spontaneous switching of the direction of information flow. *Yutaka Yamaguti, Ichro Tsuda*
- P12 Error-type-dependent saccade dynamics during visual search. *Atsushi Fujimoto, Satsoshi Nishida, Tadashi Ogawa*
- P13 Design and dynamics of active-touch sensory model. *Tatsuo Yanagita*
- P14 Human object recognition based on internal models of the human hand. *Masazumi Katayama, Tatsuya Kurisu*
- P15 Estimation of children's interest dynamics while communicating with robots. *Takayuki Shimotomai, Kasumi Abe, Ayami Yokoyama, Takayuki Nagai, Takashi Omori.*
- P16 Robotic motion coach: Effect of motion emphasis and verbal expression for imitation learning. *Tetsunari Inamura, Keisuke Okuno*

- P17 Synthetic approach to understanding meta-level cognition of predictability in generating cooperative behavior. Jun Namikawa, Ryunosuke Nishimoto, Hiroaki Arie, Jun Tani
- P18 Neural correlates of cognitive dissonance and decision conflict. Keise Izuma, Madoka Matsumoto, Kou Murayama, Kazuyuki Samejima, Sadato Norihiro, Kenji Matsumoto
- P19 Social biases on economical decision making in domestic chicks: kleptoparasitism work investment and choice impulsivity. *Toshiya Matsushima, Yukiko Ogura, Hidetoshi Amita*
- P20 Neural networks to do bayesian decision compare multiple results and practice according to episodic memory making hierarchical basins. *Mitsuo Takase*
- P21 Learning values of multi-dimensional stimulus in cognitive decision-making. Kazuyuki Samejima, Satoshi Nonomura, Yasuhiro X. Kato, Yoshiya Yamaguchi, Kenji Doya, Jun Tanji
- P22 Cantor coding of song sequence in the Bengalese finch HVC. *Jun Nishikawa, Kazuo Okanoya*
- P23 Inhibitory network dependency in Cantor coding. *Yasuhiro Fukushima, Yoshikazu Isomura, Yutaka Yamaguti, Shigeru Kuroda, Ichiro Tsuda, Minoru Tsukada.*
- P24 Sequential memory retention by stabilization of cell assemblies. *Timothee Leleu, Kazuyuki Aihara*
- P25 Statistical estimation of non-uniform distribution of dendritic membrane properties. *Toshiaki Omori, Toru Aonishi, Masato Okada*
- P26 Optical imaging of neuronal activity during song recognition in female zebra finch. *Fumihiro Takayama, Yosuke Maruyama, Kohji Hotta, Kotaro Oka*
- P27 Context-dependent call variation in the male Bengalese finch. *Midori Osada, Tetsu Okumura*
- P28 Capturing the global behavior of dynamical systems with Conley-Morse graphs. *Zin Arai, Hiroshi Kokubu*
- P29 A heuristic model of intra-brain communications using chaos in artificial neuron systems. *Yu Arai*, *Ryota Mori*, *Fuyuki Aoto*, *Sigetoshi Nara*
- P30 Transitory memory retrieval in the neural networks composed of Pinsky-Rinzel model neurons. *Hiromichi Tsukada, Yutaka Yamaguti, Hiroshi Fujii, Ichiro Tsuda*.
- P31 Dynamic information processing in the supplementary eye field of monkeys during hypothesis testing behavior. *Norihiko Kawaguchi, Kazuhiro Sakamoto, Yoshito Furusawa, Naohiro Saito, Jun Tanji, Hajime Mushiake*
- P32 Simple dynamical models to understand the mechanism of drug addiction. *Takashi Tateno*
- P33 Toward an animal model of spatial hemineglect: preliminary investigation. *Masatoshi Yoshida*
- P34 Prestimulus neural oscillations contribute to recollection and familiarity. *Florence Kleberg, Keichi Kitajo, Masahiro Kawasaki, Yoko Yamaguchi*
- P35 Contribution of the cholinergic innervation to early memory development in the neonate para-Hippocampal system. *Alexandre Pitti, Yasuo Kuniyoshi*

- P36 Unintentional synchronization of behavior in Japanese monkeys. Yasuo Nagasaka, Zenas C Chao, Naomi Hasegawa, Tomonori Notoya, Naotaka Fujii
- P37 Effects of medial amygdala lesions upon social behaviour in mice. *Yu Wang, Yuki Takayanagi, Tatsushi Onaka*
- P38 Theta-burst stimulation induces long-term potentiation during beta oscillation but not induce during the epileptic discharges in rat hippocampal slices. *Motoshi Nishimura, Kiyohisa Natsume*
- P39 Integration of hetero inputs to guinea pig auditory cortex established by fear conditioning. *Yoshinori Ide, Muneyoshi Takahashi, Johan Lauwereyns, Minoru Tsukada, Takeshi Aihara*
- P40 The theta cycle and spike-Timing during fixation in rat hippocampal CA1. Muneyoshi Takahashi, Yoshio Sakurai, Yoshikazu Isomura, Minoru Tsukada, Johan Lauwereyns
- P41 Reactivation hypothesis in episodic memory: From the findings of neuroimaging studies. *Aya Ueno, Jiro Okuda, Toshikatsu Fujii*
- P42 Model-based analysis of functional connectivity during associative learning in schizophrenia. *Mihaly Banyai, Vaibhav Diwadkar, Peter Erdi*
- P43 Neuronal activity in the prefrontal cortex during performance of a dual task consisting of a main- and an interrupting-task. Atsushi Miyazaki, Toshi Nakajima, Keisetsu Shima, Hajime Mushiake
- P44 Functional analysis of the hippocampus using opto-fMRI. Yoshihumi Abe, Masaki Sekino, Yugo Fukazawa, Hiromu Yawo, Hiroyuki Ohsaki, Tatsuhiro Hisatsune.
- P45 Modulation of cortio-hippocampal EEG synchronization with visual flicker: A theoretical study. *Naoyuki Sato*
- P46 Transition of firing patterns in a CA1 pyramidal neuron model. *Dan Ma, Shenquan Liu, Lei Wang.*
- P47 The effects of leakage conductance on firing properties in a compartment neuron model. *Lei Wang, Shenquan Liu.*
- P48 Numerical analysis of parkinson's disease in a basal ganglia network model. *Xiaofeng Xie, Shenquan Liu, Xuemiao Pan, Wang Lei*