

Satellite workshop of the Japan Neuroscience Meeting : Okazaki 2006

大脳皮質・海馬の局所神経回路研究

第35回生理研コンファレンス / 統合脳 国際シンポジウム

平成18年7月24日(月) - 26日(水)

自然科学研究機構・岡崎コンファレンスセンター 大会議室

7月24日(月)

12時50分 開会の辞 吉村由美子

午後 I 13時—14時20分

Physiological network connectivity in hippocampal microcircuitry 座長: Gábor Tamás

S1 13:00 - 13:40 池谷裕二(東京大学)

Spontaneous activity and ongoing plasticity of CA3 recurrent networks

S2 13:40 - 14:20 Adi Cymerblit and Yitzhak Schiller (Technion、イスラエル)

Network dynamics during the development and maintenance of seizures in pilocarpine and picrotoxin treated rats

14時20分 - 14時45分: コーヒーブレイク(中会議室、ホワイエ)

午後 II 14時45分—16時10分

Anatomical network connectivity in hippocampal microcircuitry 座長: 藤田一郎

S3 14:45 - 15:25 重本隆一(生理学研究所)

Asymmetrical organization of glutamate receptors in left and right hippocampal synapses

S4 15:25 - 16:05 神野尚三、Thomas Klausberger, Laszlo F. Marton, Yannis

Dalezios, Pablo Fuentealba, Wai Yee Suen, Eric A. Bushong, Darrell Henze, György Buzsáki and Peter Somogyi (オックスフォード大学、英国)

Novel long-range GABAergic projections in the hippocampal formation and beyond

16時05分 - 16時30分: コーヒーブレイク(中会議室、ホワイエ)

午後 III 16時30分 - 18時20分

Network connectivity in cortical microcircuitry 座長: ヘンシュ貴雄

S5 16:30 - 17:40 Gábor Tamás, János Szabadics, Szabolcs Oláh, Gergely Komlósi, Pál

Barzó, Gábor Molnár (セゲド大学、ハンガリー)

Single spike triggered event sequences in networks of the human cerebral cortex in vitro

S6 17:40 - 18:20 木村文隆(大阪大学)

Cholinergic control of cortical network and thalamocortical transmission

夜 18時40分 - 21時30分

Welcome Party for invited speakers 職員会館2階大会議室

7月25日(火)

午前 I 8時45分 - 10時35分

Plasticity in the visual cortex 座長 小松由紀夫

S7 8:45 - 9:25 吉村由美子(名古屋大学)

Functional roles of T-type Ca_{v2} channels in visual cortical plasticity

S8 9:25 - 10:35 ヘンシュ貴雄(理化学研究所・脳科学総合研究センター)

GABA circuit control of critical period plasticity in visual cortex

10時35分 - 11時: コーヒーブレイク(中会議室、ホワイエ)

午前 II 11時 - 12時20分

Microcircuitry in vivo 座長 Kathleen Rockland

S9 11:00 - 11:40 Victoria M Puig、牛丸弥香、窪田芳之、渡我部昭哉、山森哲雄、柳川 右

千夫、川口泰雄(生理学研究所、基礎生物学研究所、群馬大学、MIT)

Cortico-striatal, cortico-raphe and fast-spiking cell activity in the rat frontal cortex

during

cortical oscillations in vivo: modulation by serotonin.

S10 11:40 – 12:20 藤田一郎 (大阪大学)

Functional and Anatomical Architecture of the Inferior Temporal Cortex

ランチタイム 12時20分 - 13時20分 : 昼食 OCC中会議室

午後 I 13時20分—15時50分

Microcircuitry of inhibitory neurons 座長 Sacha B Nelson

S11 13:20 – 14:30 Edward Callaway, Takuma Mori, Xiangmin Xu, Ian Wickersham, and

David Lyon (ソーク研究所、米国)

Unraveling cell type and fine-scale specificity of cortical connections.

S12 14:30 – 15:10 小松由紀夫 (名古屋大学)

A new form of inhibitory synaptic actions between nearby pyramidal neurons in visual cortex

S13 15:10 – 15:50 川口泰雄 (生理学研究所)

New aspect of nonpyramidal cell analysis

写真撮影 15:50 – 16:10 正面玄関前 (雨天時はエントランスホール)

午後 II 16時10分—18時

Poster session 2階小会議室

コーヒーサービス (2階小会議室前ホワイエ)

夜 18時—20時45分

懇親会 中会議室

7月26日 (水)

午前 I 8時45分 - 10時25分

Anatomical aspects of cortical microcircuitry 座長 金子武嗣

S14 8:45 – 9:45 Kathleen Rockland (理化学研究所・脳科学総合研究センター)

Cortical projection neurons: phenotypes and input maps

S15 9:45 – 10:25 福田孝一 (九州大学)

Dendritic network of cortical interneurons linked by gap junctions

10時25分 - 10時50分 : コーヒーブレイク 中会議室、ホワイエ

午前 II 10時50分 - 12時

Synaptic integration along dendrite 座長 Yitzhak Schiller

S16 10:50 – 12:00 Jackie Schiller (Technion、イスラエル)

Synaptic integration and plasticity within non-linear dendritic subunits

ランチタイム 12時 - 13時00分 : 昼食 OCC中会議室

午後 13時00分—14時50分

New aspects in cortical microcircuitry analysis 座長 Edward M Callaway

S17 13:00 – 13:40 窪田芳之、苅部冬樹、川口泰雄 (生理学研究所)

Dendritic dimensions of cortical GABAergic nonpyramidal cells

S18 13:40 – 14:50 Sacha B Nelson (ブランディス大学、米国)

Physiological genomics of cortical circuits in health and disease

14時50分 - 15時 閉会の辞 窪田芳之

Satellite workshop of the Japan Neuroscience Meeting : Okazaki 2006

[Recent Advances in Cortical and Hippocampal Microcircuits](#)

The 35th SEIRIKEN Conference / Tohohno International Symposium

July 24th - 26th, 2006 Okazaki Conference Center, Large conference room

[Monday, July 24](#)

12:50 Opening Remarks Yumiko Yoshimura

[Afternoon session I 13:00 – 14:20](#)

[Physiological network connectivity in hippocampal microcircuitry Gábor Tamás chair](#)

S1 13:00 – 13:40 Yuji Ikegaya (Univ. of Tokyo, Tokyo)

Spontaneous activity and ongoing plasticity of CA3 recurrent networks

S2 13:40 – 14:20 Adi Cymerblit and Yitzhak Schiller (Technion, Israel)

Network dynamics during the development and maintenance of seizures in pilocarpine and picrotoxin treated rats

[14:20 - 14:45 Coffee break at Medium conference room](#)

[Afternoon session II 14:45 – 16:05](#)

[Anatomical network connectivity in hippocampal microcircuitry Ichiro Fujita chair](#)

S3 14:45 – 15:25 Ryuichi Shigemoto (NIPS, Okazaki)

Asymmetrical organization of glutamate receptors in left and right hippocampal synapses

S4 15:25 – 16:05 Shozo Jinno, Thomas Klausberger, Laszlo F. Marton, Yannis

Dalezios, Pablo Fuentealba, Wai Yee Suen, Eric A. Bushong, Darrell Henze, György

Buzsáki and Peter Somogyi (Oxford Univ., UK: Hungarian University of Transylvania,

Hungary: University of Crete, Greece: Institute of Applied and Computational

Mathematics. Greece: The State University of New Jersey, USA)

Novel long range GABAergic projections in the hippocampal formation and beyond

[16:05 - 16:30 Coffee break at Medium conference room](#)

[Afternoon session III 16:30 – 18:20](#)

[Network connectivity in cortical microcircuitry Takao K Hensch chair](#)

S5 16:30 – 17:40 Gábor Tamás, János Szabadics, Szabolcs Oláh, Gergely Komlósi, Pál

Barzó, Gábor Molnár (Univ. of Seged, Hungary)

Single spike triggered event sequences in networks of the human cerebral cortex in vitro

S6 17:40 – 18:20 Yasuo Kawaguchi (NIPS)

New aspect of nonpyramidal cell analysis

[Evening 18:40 – 21:30](#)

Welcome Party for invited speakers (Shokuin-kaikan 2F Large meeting room in Myodaiji campus)

[Tuesday, July 25](#)

[Morning session I 8:45 – 10:35](#)

[Plasticity in the visual cortex Yukio Komatsu chair](#)

S7 8:45 – 9:25 Yumiko Yoshimura (Nagoya Univ., Nagoya)

Functional roles of T-type Ca_{2+} channels in visual cortical plasticity

S8 9:25–10:35 Takao K Hensch (RIKEN-BSI, Wako)

GABA circuit control of critical period plasticity in visual cortex

[10:35 - 11:00 Coffee break at Medium conference room](#)

[Morning session II 11:00 – 12:20](#)

[Microcircuitry in vivo Kathleen Rockland chair](#)

S9 11:00 – 11:40 Victoria M Puig, Mika Ushimaru, Yoshiyuki Kubota, Akiya Watakabe,

Tetsuo Yamamori, Yuchio Yanagawa, Yasuo Kawaguchi (NIPS & NIBB, Okazaki, Gunma Univ., MIT, USA)

Cortico-striatal, cortico-raphé and fast-spiking cell activity in the rat frontal cortex during

cortical oscillations in vivo: modulation by serotonin

S10 11:40 – 12:20 Ichiro Fujita (Osaka Univ., Osaka)

Functional and Anatomical Architecture of the Inferior Temporal Cortex

12:20 - 13:20 Lunch at Medium conference room

Afternoon session I 13:20 – 15:50

Microcircuitry of inhibitory neurons Sacha B Nelson chair

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Unraveling cell type and fine-scale specificity of cortical connections.

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A new form of inhibitory synaptic actions between nearby pyramidal neurons in visual cortex

S13 15:10 – 15:50 Fumitaka Kimura (Osaka Univ., Osaka)

Cholinergic control of cortical network and thalamocortical transmission

Get together photo 15:50 – 16:10 outside of entrance (at entrance hall in case of rain)

Afternoon session II 16:10 – 18:00

Poster session Small conference room on 2F

Coffee service at foyer of Small conference room on 2F

Evening 18:00 – 20:45

Banquet Medium conference room

Wednesday, July 26

Morning session I 8:45 – 10:25

Anatomical aspects of cortical microcircuitry Takeshi Kaneko chair

S14 8:45 – 9:45 Kathleen Rockland (RIKEN-BSI, Wako)

Cortical projection neurons: phenotypes and input maps

S15 9:45 – 10:25 Takaichi Fukuda (Kyushu Univ., Fukuoka)

Dendritic network of cortical interneurons linked by gap junctions

10:25 - 10:50 Coffee break at Medium conference room

Morning session II 10:50 – 12:00

Synaptic integration along dendrite Yitzhak Schiller chair

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Synaptic integration and plasticity within non-linear dendritic subunits

12:00 - 13:00 Lunch at Medium conference roomA

Afternoon session 13:00 – 14:50

New aspects in cortical microcircuitry analysis Edward M Callaway chair

S17 13:00 – 13:40 Yoshiyuki Kubota, Fuyuki Karube, Yasuo Kawaguchi (NIPS, Okazaki)

Dendritic dimensions of cortical GABAergic nonpyramidal cells

S18 13:40 – 14:50 Sacha B Nelson (Brandeis Univ., USA)

Physiological Genomics of Cortical Circuits in Health and Disease

14:50 – 15:00 Closing Remarks Yoshiyuki Kubota