

Symposia シンポジウム

Opening Symposium オープニングシンポジウム

9/11(Fri) 8:30~10:00
Room A

1S1 神経化学の歴史を知って未来を拓く～大発見はこうして行われた～ (in Japanese)

Chairpersons Tomoaki Shirao(白尾 智明) Department of Neurobiology and Behavior, Gunma University Graduate School of Medicine (群馬大学医学部医学系研究科神経薬理学)
Kazunori Nakajima(仲嶋 一範) Department of Anatomy, School of Medicine, Keio University (慶應義塾大学解剖学教室)

1S1-1 GABA as an inhibitory neurotransmitter in the mammalian central nervous system

Kunihiko Obata(小幡 邦彦)
National Institute for Physiological Sciences(生理学研究所)

1S1-2 Identification and characterization of the muscarinic acetylcholine receptor and the high-affinity choline transporter

Tatsuya Haga(芳賀 達也)
Neurochem. Med., Univ. of Tokyo(東京大院・医・神経生化学)

1S1-3 How to create exciting trends in Neurochemistry!

Katsuhiko Mikoshiba(御子柴克彦)
RIKEN, BSI(理化学研究所・脳科学総合研究センター)

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Room B

1S2 The mechanisms of thyroid hormone action

Chairpersons Masami Murakami(村上 正巳) Department of Clinical Laboratory Medicine, Gunma University Graduate School of Medicine (群馬大学大学院医学系研究科臨床検査医学)
Tomoko Tashiro(田代 朋子) Department of Chemistry and Biological Science, Sch. Science and Engineering, Aoyama Gakuin University (青山学院大学理工学部化学・生命科学科)

1S2-1 Thyroid hormone and the nervous system

Douglas Forrest¹, Hong Liu¹, Jeff Huang¹, Xuefeng Wu¹, Anand Swaroop², Lily Ng¹, Yulong Fu¹
¹NIDDK, National Institutes of Health/²National Eye Institute

1S2-2 Neuroendocrine Regulation of Iodothyronine Deiodinases

Osamu Araki(荒木 修), Masami Murakami(村上 正巳)
Department of Clinical Laboratory Medicine, Gunma University Graduate School of Medicine(群馬大学大学院医学系研究科臨床検査医学)

1S2-3 Attenuation of local thyroid hormone signaling due to reduction of DIO2 : SAMP8 mouse as a unique animal model of developmental anomalies and later-onset cognitive deficits

Tomoko Tashiro(田代 朋子)
Dept. Chemistry & Biological Science, Sch. Science & Engineering, Aoyama Gakuin Univ.(青山学院大・理工・化学・生命科学)

1S3 生物の適応能を飛躍的に高めたリズム制御分子と高次中枢システムの世界(in Japanese)

Chairpersons	Masaaki Ikeda(池田 正明)	Department of Physiology, Faculty of Medicine, Saitama Medical University (埼玉医科大学医学部生理学)
	Satoshi Kida(喜田 聡)	Department of Bioscience, Tokyo University of Agriculture (東京農業大学 応用生物科学部バイオサイエンス学科)

1S3-1 Design of circadian clock by two ATPases in cyanobacterial clock protein KaiC

Takao Kondo(近藤 孝男)
Division of Biological Science, Nagoya University(名大院・理学・生命理学)

1S3-2 Disruption of MeCP2 attenuates circadian rhythm in CRISPR/Cas9-based Rett syndrome model mouse

Kazuhiro Yagita(八木田和弘)
Dept. of Physiology and Systems Bioscience, Kyoto Pref. Univ. Med.(京都府立医大・医・統合生理)

1S3-3 Understanding the mechanism of seasonal time measurement

Takashi Yoshimura^{1,2,3}(吉村 崇)
¹Institute of Transformative Bio-Molecules (wpi-itbm), nagoya Univ.(名古屋大・トランスフォーマティブ生命分子研究所(WPI-ITbM))/²Grad. Sch. of Bioagr. Sci., Nagoya Univ.(名古屋大・大学院生命農学)/³Div. of Seasonal Biol., Natl. Inst. of Basic Biol.(基生研・季節生物)

1S3-4 Regulation of memory retrieval by forebrain circadian clock

Satoshi Kida(喜田 聡)
Department of Bioscience, Tokyo University of Agriculture(東京農大・応生科・バイオ)

1S4 The ins and outs of neuro-vascular interactions

Chairpersons	Yasuki Ishizaki(石崎 泰樹)	Molecular and Cellular Neurobiology, Gunma University Graduate School of Medicine (群馬大学大学院医学系研究科分子細胞生物学)
	Kazunobu Sawamoto(澤本 和延)	Department of Developmental and Regenerative Biology, Nagoya City University Graduate School of Medical Sciences (名古屋市立大学大学院医学系研究科再生医学分野)

1S4-1 Interaction between glia and blood vessels during cortical development

Hidenori Tabata¹(田畑 秀典)、Megumi Sasaki²(佐々木 恵)、Yutaka Inaguma¹(稲熊 裕)、Hidenori Ito¹(伊東 秀記)、Hirohide Takebayashi³(竹林 浩秀)、Masatsugu Ema⁴(依馬 正次)、Kazuhiro Ikenaka⁵(池中 一裕)、Koh-ichi Nagata¹(永田 浩一)、Kazunori Nakajima⁶(仲嶋 一範)
¹Dept of Mol Neurobiol, Inst for Dev Res, Aichi Human Service Cent(愛知県心身障害者コロニー・発達障害研・神経制御)/²Dept Anat, Keio Univ Sch of Med(慶應大・医・解剖)/³Div of Neurobiol & Anat, Grad Sch of Med & Den Sci, Niigata Univ(新潟大院・医歯学総合・神経生物)/⁴Dept Stem Cells & Human Disease Models, Res Cent for Animal Life Sci, Shiga Univ of Med Sci(滋賀医大・動物生命科学研究所)/⁵Div of Neurobiol & Bioinformatics(生理研分子神経)

1S4-2 Macrophage-independent programmed regression of fetal ocular vasculature triggered by neurons

Yoshiaki Kubota(久保田義顕)
Department of Vascular Biology, School of Medicine, Keio University(慶應義塾大学医学部機能形態学講座)

1S4-3 Role of blood vessels in neuronal regeneration

Kazunobu Sawamoto(澤本 和延)
Dept. of Dev. & Regen. Biol., Nagoya City Univ.(名古屋市立大院・医・再生医学)

1S4-4 Control of oligodendrocyte precursor cell survival and proliferation by vascular endothelial cells

Yasuki Ishizaki(石崎 泰樹)
Mol. Cell. Neurobiol., Gunma Univ. Grad. Sch. Med(群大院・医・分子細胞生物学)

1S4-5 **Vascular and neurogenic rejuvenation of the aging mouse brain by young systemic factors**

Sean M. Buchanan, Lida Katsimpardi, Lee L. Rubin
The Department of Stem Cell and Regenerative Biology, Harvard University

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Room A

1S5

Molecular pathogenesis of non-coding microsatellite repeat expansion disorders

Chairperson Yoshio Ikeda(池田 佳生) Department of Neurology, Gunma University Graduate School of Medicine (群馬大学大学院医学系研究科脳神経内科学)

1S5-1 **An overview of non-coding microsatellite repeat expansion disorders**

Yoshio Ikeda(池田 佳生)
Department of Neurology, Gunma University Graduate School of Medicine (群馬大学大学院医学系研究科脳神経内科学)

1S5-2 **Myotonic dystrophy-toxic RNA and spliceopathy**

Masayuki Nakamori(中森 雅之)
Department of Neurology, Osaka University(大阪大院・医・神経内科学)

1S5-3 **A Novel ALS/SCA Crossroad Mutation Asidan**

Toru Yamashita¹(山下 徹)、Yoshio Ikeda²(池田 佳生)、Koji Abe¹(阿部 康二)
¹Department of Neurology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences(岡山大学大学院医歯薬学総合研究科脳神経内科学)/²Department of Neurology, Gunma University Graduate School of Medicine(群馬大学大学院医学系研究科脳神経内科学)

1S5-4 **Cytotoxic properties of dipeptide repeat proteins generated by repeat-associated, non-ATG (RAN) translation on c9ALS/FTD**

Daisuke Ito(伊藤 大介)
Department of Neurology, Keio University School of Medicine

1S5-5 **RAN translation in Fragile X-associated Tremor Ataxia Syndrome**

Peter K. Todd
University of Michigan

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Room B

1S6

**Precise imaging and manipulation of gliopathy—are glial cells really required for brain function?—
グリア病を見る・操る—グリア細胞は本当に必要か?—**

Chairpersons Schuichi Koizumi(小泉 修一) Department of Neuropharmacology, Interdisciplinary Graduate School of Medicine, University of Yamanashi (山梨大学大学院医学工学総合研究部 医学学域 基礎医学系(薬理学) 医学部 薬理学講座)
Hiroaki Wake(和氣 弘明) Division of Homeostatic Development, National Institute for Physiological Sciences, NINS (生体恒常機能発達機構 生理学研究所)

1S6-1 **Neurodegeneration promotes angiogenesis in the adult CNS**

Rieko Muramatsu^{1,2}(村松里衣子)
¹Dept. Mol. Neurosci. Grad. Sch. Med. Osaka Univ.(大阪大院・医・分子神経科学)/²JST Presto(科学技術振興機構さきがけ)

1S6-2 **Cortical astrocytes rewire somatosensory circuits for neuropathic pain**

Sun Kwang Kim¹(金 善光)、Schuichi Koizumi²、Junichi Nabekura³
¹Department of Physiology, College of Korean Medicine, Kyung Hee University/²Department of Neuropharmacology, Interdisciplinary Graduate School of Medicine and Engineering, University of Yamanashi/³Division of Homeostatic Development, National Institute for Physiological Sciences

1S6-3 **Calcium signals in astrocyte processes : its visualization and manipulation**

Eiji Shigetomi¹(繁富 英治)、Schuichi Koizumi^{1,2}(小泉 修一)
¹Dept. Neuropharmacol., Interdiscipl. Grad. Sch. of Med., Univ. Yamanashi(山梨大学大学院総合研究部薬理)/²CREST, JST(科学技術振興機構, CREST)

1S6-4 The role of microglia in the adult CNS of systemic inflammation.

Hiroaki Wake (和氣 弘明)

National Institute for Physiological Sciences (自然科学研究機構 生理学研究所 生体恒常機能発達機構研究部門)

Symposium シンポジウム

9/11 (Fri) 16:00~18:00
Room C

1S7	Sound of Silence : Neural restrictive silencer (NRSF/REST) Revisited サウンドオブサイレンス : 神経選択的サイレンサー Revisited
Chairpersons	Nozomu Mori (森 望) Department of Anatomy and Neurobiology, Nagasaki University School of Medicine (長崎大学医学部・神経形態学(第一解剖学)) Hiroshi Ueda (植田 弘師) Department of Pharmacology and Therapeutic Innovation, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki (長崎大学大学院医歯薬学総合研究科 創薬薬理学研究室)

1S7-1 Neural Restrictive Silencing Factor (NRSF/REST) 1995-2015

Nozomu Mori (森 望)

Dept. Anatomy and Neurobiol., Nagasaki Univ. School of Med. (長崎大・医・神経形態(第一解剖))

1S7-2 Remarkable differences in NRSF/REST target genes between human ESC and ESC-derived neurons

Jun-ichi Satoh (佐藤 準一)

Dept. of Bioinformatics, Meiji Pharm. Univ. (明治薬科大学バイオインフォマティクス)

1S7-3 Post-translational modification of Charlatan, a Drosophila NRSF/REST, is required for neuron specific genes expression

Leo Tsuda (津田 玲生)、Yasutoyo Yamasaki (山崎 泰豊)、Young-Mi Lim (林 永美)

Animal Models of Aging, CAMD, National Center for Geriatrics and Gerontology (国立長寿医療研究センター・CAMD・創薬モデル)

1S7-4 Neuroepigenetics in negative signs of chronic pain

Hiroshi Ueda (植田 弘師)

Department of Pharmacology and Therapeutic Innovation, Nagasaki University Graduate School of Biomedical Sciences (長崎大学大学院医歯薬学総合研究科 創薬薬理学研究室)

1S7-5 Rest function in neuronal or neural crest cell lineage revealed by the conditional gene ablation

Hitomi Aoki (青木 仁美)、Takahiro Kunisada (國貞 隆弘)

Tissue & Organ Dev. Med., Gifu Univ. (岐阜大院・医・組織・器官形成)

1S7-6 NRSF plays an essential role in the regulation of cardiac gene expression and function

Koichiro Kuwahara (桑原宏一郎)、Takeshi Kimura (木村 剛)

Department of Cardiovascular Medicine, Kyoto University Graduate School of Medicine (京都大学大学院医学研究科循環器内科)