

Round Table Discussion ラウンドテーブル討論

3S1	History and future of Japanese Society for Neurochemistry (JSN) and International Society for Neurochemistry (ISN). JSN/ISN の歴史を探り今後の発展を考える (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)
	Keiichi Uyemura(植村 慶一)	Department of Physiology, Keio University School of Medicine (慶応義塾大学医学部生理学教室)

In this round table discussion, each discussant will present a topic concerning history and future of JSN and ISN, then all participants including audiences from floor discuss it freely. The topics are followings: 1) Outline of history of JSN (K. Uyemura), 2) The early stage of JSN (M. Satake), 3) History of ISN and J. Neurochem. (K. Suzuki), 4) Contributions of Japanese to ISN (E. Miyamoto), 5) History and future of Asian Pacific Society for Neurochemistry (APSN) (K. Ikenaka), 6) Recent problems of JSN (T. Shirao), 7) Hopeful future of JSN (H. Kiyama).

3S1 History and future of Japanese Society for Neurochemistry (JSN) and International Society for Neurochemistry (ISN). JSN/ISN の歴史を探り今後の発展を考える

Kunihiko Suzuki¹(鈴木 邦彦)、Mei Satake²(佐武 明)、Eishichi Miyamoto³(宮本 英七)、Kazuhiro Ikenaka⁴(池中 一裕)、Hiroshi Kiyama⁵(木山 博資)

¹North Carolina Univ./²Niigata Univ./³Kumamoto Univ./⁴Natl Inst Physiol Sci/⁵Nagoya Univ.(名古屋大学大学院医学系研究科機能組織学(解剖学第二))

Symposium シンポジウム

3S2	Understanding neural functions and diseases from brain-derived neurotrophic factor	
Chairpersons	Mamoru Fukuchi(福地 守)	Department of Biological Chemistry, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama (富山大学大学院 医学薬学研究部(薬学)分子神経生物学)
	Yo Shinoda(篠田 陽)	Department of Applied Biological Science, Faculty of Science and Technology, Tokyo University of Science (東京理科大学 理工学部 応用生物科学科 分子神経科学)

3S2-1 Regulation of BDNF gene expression and its possible role in neural functions and diseases

Mamoru Fukuchi(福地 守)、Akiko Tabuchi(田渕 明子)、Masaaki Tsuda(津田 正明)
Dept. Biol Chem., Grad. Sch. of Med. & Pharm. Sci., Univ. of Toyama(富山大院・医薬・分子神経生物)

3S2-2 New insight in transport and secretion of BDNF: Implications in brain-related diseases

Naoki Adachi^{1,2}(安達 直樹)、Tadahiro Numakawa^{1,3}(沼川 忠広)、Shingo Nakajima^{1,4}(中島 進吾)、Haruki Odaka^{1,5}(小高 陽樹)、Aya Yoshimura^{1,6}(吉村 文)、Hiroshi Kunugi¹(功刀 浩)

¹Dept. of Mental Disorder Research, National Institute of Neuroscience, NCNP(国立精神・神経センター 神経研 疾病研究第三部)/²Department of Bioscience, Kwansei Gakuin University(関西学院大学 理工学部 生命医化学科)/³Department of Cell Modulation, Institute of Molecular Embryology and Genetics, Kumamoto University(熊本大学 発生医学研究所 幹細胞誘導分野)/⁴Faculty of Health Science, Hokkaido University(北海道大学 医学部 保健学科)/⁵Department of Life Science and Medical Bioscience, School of Advanced Science and Engineering, Waseda University(早稲田大学 理工学術院 先進理工学研究所)/⁶Division of Laboratory Animals Resources, National Institute of Neuroscience, NCNP(国立精神・神経センター 神経研 実験動物管理室)

3S2-3 CAPS2-The positive regulation factor of BDNF secretion and the candidate gene for autism

Yo Shinoda^{1,2}(篠田 陽)、Tetsushi Sadakata³(定方 哲史)、Hajime Hirase²(平瀬 肇)、Teiichi Furuichi^{1,2}(古市 貞一)

¹Fac of Sci and Tech, Tokyo Univ of Sci(東京理大・理工・応用生物)/²RIKEN BSI(理研BSI)/³Adv Sci Res Leaders Develop Unit, Gumma Univ(群馬大先端科学研究指導者育成ユニット)

3S2-4 Biological roles of the BDNF pro-peptide

Toshiyuki Mizui¹(水井 利幸)、Yasuyuki Ishikawa²(石川 保幸)、Haruko Kumanogoh¹(熊ノ郷晴子)、Masami Kojima¹(小島 正己)

¹Molecular and Cellular Pathology Research Team, Biomedical Research Inst., AIST(産総研・バイオメディカル・分子細胞病態研究特別チーム)/

²Department of Systems Life Engineering Maebashi Institute of Technology(前橋工科大学システム生体工学科)

ISN/JSN Joint Symposium ISN/JSN ジョイントシンポジウム

9/13(Sun) 14:00~16:00

Room A

3S3

Epigenetics in neurological and psychiatric diseases

Chairperson

Seiji Hitoshi(等 誠司) Department of Integrative Physiology Shiga University of Medical Science (滋賀医科大学 統合臓器生理学部門)

3S3-1 Epigenetic alterations in neuronal cells of patients with bipolar disorder and schizophrenia

Kazuya Iwamoto¹(岩本 和也)、Tadafumi Kato²(加藤 忠史)

¹Department of Molecular Psychiatry, Graduate School of Medicine, the University of Tokyo(東京大学大学院医学系研究科分子精神医学講座)/

²Laboratory for Molecular Psychiatry, RIKEN BSI(理化学研究所脳科学総合研究センター精神疾患動態研究チーム)

3S3-2 A role for inefficient RNA editing in the amyotrophic lateral sclerosis (ALS) pathogenesis

Shin Kwak¹(郭 伸)

¹Div. of Clin. Biotech., Centr. for Dis. Biol. and Integ. Med., Grad. School of Med., Univ. of Tokyo(東京大院・医・疾患生命工学セ・臨床医工学)/

²Internatl. Univ. of Health and Welfare(国際医療福祉大学臨床医学研究センター)

3S3-3 Epigenetic studies in Alzheimer's disease

Katie Lunnon
University of Exeter

3S3-4 Signaling mechanisms regulation CNS myelination

Wendy Macklin
University of Colorado

Symposium シンポジウム

9/13(Sun) 14:00~16:00

Room B

3S4

Principle and breakdown of higher brain function by decoding intracellular signaling 細胞内シグナルから読み解く高次脳機能の原理と破綻

Chairpersons

Kozo Kaibuchi(貝淵 弘三) Department of Cell Pharmacology Nagoya University Graduate School of Medicine (名古屋大学医学系研究科)

Mutsuki Amano(天野 睦紀) Department of Cell Pharmacology Nagoya University Graduate School of Medicine (名古屋大学医学系研究科)

3S4-1 Optogenetic manipulation and imaging of CaMKII-Rho GTPase signaling pathway during synaptic plasticity

Hideji Murakoshi(村越 秀治)
National Institute for Physiological Sciences(生理学研究所)

3S4-2 Reward action of dopamine on the structural plasticity of dendritic spines

Sho Yagishita¹(柳下 祥)、Haruo Kasai^{1,2}(河西 春郎)
¹Lab. of Structural Phys. Med., Univ. of Tokyo(東京大院・医・構造生理)/²CREST

3S4-3 Phospho-proteomic analysis enables discovery of reward signals

Taku Nagai^{1,3}(永井 拓)、Mutsuki Amano^{2,3}(天野 睦紀)、Kiyofumi Yamada^{1,3}(山田 清文)、Kozo Kaibuchi^{2,3}(貝淵 弘三)
¹Dept. Neuropsychopharmacol. Hosp. Pharm., Nagoya Univ. Grad. Sch. Med.(名古屋大院・医・医療薬学・附属病院薬剤部)/²Dept. Cell Pharmacol., Nagoya Univ. Grad. Sch. Med.(名古屋大院・医・神経情報薬理)/³SRPBS(脳科学研究戦略推進プログラム)

3S4-4 Genetic manipulation of memory engram

Naoki Matsuo (松尾 直毅)

Dept. of Mol. and Behav. Neurosci., Grad. Sch. of Med., Osaka Univ. (大阪大院・医・分子行動神経科学)

3S4-5 Computational modeling of dopaminergic actions on striatal medium spiny neurons

Junichiro Yoshimoto (吉本潤一郎)、Naoto Yukinawa (行縄 直人)、Takashi Nakano (中野 高志)

Neural Computation Unit, Okinawa Institute of Science and Technology Graduate University (沖縄科学技術大学院大学学術圏神経計算ユニット)

3S4-6 Comparative genetic analysis of autism and schizophrenia : Focus on rare variants

Branko Aleksic, Itaru Kushima, Norio Ozaki

Nagoya University, Graduate School of Medicine, Department of Psychiatry

Symposium Supported by Brainvision Inc ブレインビジョン協賛シンポジウム

9/13(Sun) 14:00~16:00

Room C

3S5**Unraveling the CA2 circuit in the hippocampal function**

Chairpersons

Thomas J. McHugh Lab for Circuit & Behavioral Physiology, RIKEN Brain Science Institute

Noriko Koganezawa (小金澤紀子) 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)

3S5-1 AGE-DEPENDENT SPECIFIC CHANGES IN AREA CA2 OF THE HIPPOCAMPUS AND SOCIAL MEMORY DEFICIT IN THE 22Q11.2 MOUSE MODEL OF SCHIZOPHRENIAVivien Chevalyre¹, Rebecca Piskorowski¹, Anastasia Diamantopoulou^{2,4}, Steven Siegelbaum³, Kaoutsar Nasrallah¹, Jun Mukai², Joseph Gogos²¹Centre National Research Scientifique, Unite Mixte Research 8118, University Paris/²Department of Physiology and Cellular Biophysics,Department of Neuroscience and Pharmacology, College of Physicians and Surgeons, Columbia University/³Howard Hughes Medical Institute,Department of Neuroscience and Pharmacology, College of Physicians and Surgeons, Columbia University/⁴Department of Psychiatry, College of Physicians and Surgeons, Columbia University**3S5-2 Pioneer discovery of the CA2 function in the hippocampus**

Yuko Sekino (関野 祐子)

Division of Pharmacology, National Institute of Health Sciences (国立医薬品食品衛生研究所)

3S5-3 An examination of the local circuitry and impact on network activity by supramammillary nucleus inputs to area CA2 of the hippocampus

Rebecca Piskorowski, Vincent Robert, Ludivine Therreau, Vivien Chevalyre

Centre National Research Scientifique, Unite Mixte Research 8118, University Paris

3S5-4 The role of CA2 in regulating information flow in the hippocampus

Thomas J. McHugh

RIKEN Brain Science Institute

3S6	Glial cells : biology and pathology	
Chairpersons	Hirohide Takebayashi(竹林 浩秀)	Division of Neurobiology and Anatomy, Graduate School of Medical and Dental Sciences, Niigata University (新潟大学医歯学総合研究科神経生物・解剖学(解剖学第二))
	Junji Yamauchi(山内 淳司)	Department of Pharmacology, National Center for Child Health and Development (国立研究開発法人国立成育医療研究センター研究所薬剤治療研究部)

3S6-1 Glial assembly : gliotransmission and pathophysiological consequences

Schuichi Koizumi^{1,2}(小泉 修一)、Eiji Shigetomi^{1,2}(繁富 英治)、Yuri Hirayama^{1,3}(平山 友里)、Yosuke Morizawa^{1,2}(森澤 陽介)、Youichi Shinozaki^{1,2}(篠崎 陽一)

¹Department of Neuropharmacology, Interdisciplinary Graduate School of Medicine, University of Yamanashi(山梨大院・総合・医学域・薬理)/
²CREST, Japan Science and Technology Agency(CREST, 科学技術振興機構)/³Department of Liaison Academy, Faculty of Medicine, University of Yamanashi(山梨大学医学部リエゾンアカデミー)

3S6-2 Disease-associated modification of hereditary demyelinating disorder-related protein dynamics

Yuki Miyamoto(宮本 幸)、Junji Yamauchi(山内 淳司)

Department of Pharmacology, National Research Institute for Child Health and Development(国立成育医療研究センター研究所薬剤治療研究部)

3S6-3 Emerging concept of primary microgliopathy in the pathogenesis of neurological diseases

Takeshi Ikeuchi(池内 健)

Department of Molecular Genetics, Brain Research Institute, Niigata University(新潟大学脳研究所遺伝子機能解析学)

3S6-4 Analyses of neuronal and glial cell phenotype of *dystonia musculorum* mice

Hirohide Takebayashi(竹林 浩秀)

Division of Neurobiology and Anatomy, Graduate School of Medical and Dental Sciences, Niigata University(新潟大院・医・神経解剖学)

Symposium シンポジウム

3S7	Inflammation and psychiatric disorders 炎症と精神疾患	
Chairpersons	Tsuyoshi Miyakawa(宮川 剛)	Division of Systems Medical Science, Institute for Comprehensive Medical Science, Fujita Health University (藤田保健衛生大学総合医科学研究所システム医科学研究部門)
	Hiroyuki Nawa(那波 宏之)	Department of Molecular Neurobiology, Brain Research Institute, Niigata University (新潟大学脳研究所基礎神経科学部門分子神経生物学分野)

3S7-1 Neuroinflammatory features of the cytokine-induced animal model for schizophrenia : implication of the regional specificity

Hiroyuki Nawa¹(那波 宏之)、Hiroaki Tsukano²、Katsuei Shibuki²、Akiyoshi Kakita³、Hidekazu Sotoyama¹、Hisaaki Namba¹

¹Department of Molecular Neurobiology, Brain Research Institute, Niigata University/²Department of Neurophysiology, Brain Research Institute, Niigata University/³Department of Pathology, Brain Research Institute, Niigata University

3S7-2 Stress behaviors and the innate immune system in the brain

Tomoyuki Furuyashiki(古屋敷智之)

Division of Pharmacology, Graduate School of Medicine, Kobe University(神戸大学大学院医学研究科薬理学分野)

3S7-3 Neuroinflammation and sensation of fatigue

Yosky Kataoka^{1,2}(片岡 洋祐)、Masayuki Nakano^{1,2}(中野 真行)、Masanori Yamato¹(大和 正典)、Yasuhisa Tamura¹(田村 泰久)

¹RIKEN Center for life science Technologies, Kobe, Japan(理研ライフサイエンス技術基盤研究センター)/²Dept. of Physiol., Osaka City Univ., Osaka, Japan(大阪市立大院・医・神経科学)

3S7-4

Immaturity of the brain cells and mild chronic inflammation : Candidate endophenotype of neuropsychiatric disorders

Tsuyoshi Miyakawa(宮川 剛)

Division of Systems Medical Science, Institute for Comprehensive Medical Science, Fujita Health University(藤田保健衛生大学総合医科学研究所システム医科学研究部門)

後援：新学術領域「マイクロ精神病態」