

**Ion Channels · Receptors**  
**イオンチャンネル・受容体**

**1P-01 The 5-HT<sub>3</sub> receptor is essential for exercise-induced hippocampal neurogenesis and antidepressant effects**

Makoto Kondo (近藤 誠)、Yukiko Nakamura (中村 雪子)、Yusuke Ishida (石田 雄介)、Shoichi Shimada (島田 昌一)

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**1P-02 Involvement of calcium-activated potassium channel in the inhibitory network oscillation in the rat basolateral amygdala**

Miki Hashizume (橋爪 幹)、Rina Shinozaki (篠崎 吏那)、Takayuki Murakoshi (村越 隆之)

Department of Biochemistry, Faculty of Medicine, Saitama Medical University (埼玉医科大学医学部生化学)

**1P-03 Regulation of IP<sub>3</sub> Receptor by Transglutaminase**

Kozo Hamada<sup>1</sup> (濱田 耕造)、Akiko Terauchi<sup>1</sup> (寺内 明子)、Kyoko Nakamura<sup>2</sup> (中村 京子)、Takayasu Higo<sup>1</sup> (肥後 剛康)、Nobuyuki Nukina<sup>2</sup> (貫名 信行)、Nagisa Matsumoto<sup>1</sup> (松本 渚)、Chihiro Hisatsune<sup>1</sup> (久恒 智博)、Takeshi Nakamura<sup>2</sup> (中村 健)、Katsuhiko Mikoshiba<sup>1</sup> (御子柴克彦)

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**1P-04 Roles of acid-sensing ion channel-1a in hippocampal adult neurogenesis**

Natsuko Kumamoto (熊本奈都子)、Mariko Hoshikawa (星川真理子)、Yasuhiro Shibata (柴田 泰宏)、Takashi Ueda (植田 高史)、Shinya Ugawa (鵜川 真也)

Dept. of Neurobio. and Anat. Grad. Sch. of Med. Sci., Nagoya City Univ. (名古屋市大・医・機能組織学)

**1P-05 Study about the mechanisms of DHA-induced enhancement of glial excitatory amino-acid transporter EAAT2 function**

Kazue Hoshikawa (干川 和枝)、Kanao Takahashi (高橋華奈子)、Tomohiko Irie (入江 智彦)、Yuko Sekino (関野 祐子)

Div Pharmacol, NIHS (国立衛研・薬理)

**1P-06 Phosphorylation of serotonin 1A receptor (5HT<sub>1A</sub>R) by Cdk5 activity.**

Miyuki Takahashi (高橋美由紀)、Taro Saito (斎藤 太郎)、Akiko Asada (浅田 明子)、Shin-ichi Hisanaga (久永 真市)

Dept. of Biol. Sci., Tokyo Met. Univ. (首都大学東京大学院・理・神経分子機能研究室)

**1P-07 Melanin-concentrating hormone-mediated signaling induces reduction of the primary cilium length**

Shogo Yamato (大和 翔吾)、Akie Hamamoto (濱本 明恵)、Yuki Kobayashi (小林 勇喜)、Yumiko Saito (斎藤祐見子)

Graduate School of Integrated Arts and Sciences, Hiroshima University (広島大学総合科学研究科)

**1P-08 Identification and appreciation of novel antagonists of GPR173**

Toshihiro Yanai<sup>1</sup> (矢内 俊宏)、N. Shuvaev Anton<sup>1</sup> (アントンシュヴァーフ)、Ayumu Konno<sup>2</sup> (今野 歩)、Hirokazu Hirai<sup>2</sup> (平井 宏和)、Aya Kurosawa<sup>1</sup> (黒沢 綾)、Tamio Saito<sup>3</sup> (斎藤 臣雄)、Shigeki Takeda<sup>1</sup> (武田 茂樹)

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**1P-09 Functional characterization of the phosphorylation sites of rat melanin-concentrating hormone receptor 1**

Seika Mitsuyama (蜜山 聖夏)、Akie Hamamoto (濱本 明恵)、Yuki Kobayashi (小林 勇喜)、Yumiko Saito (斎藤祐見子)

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**Neurotransmission I**  
**神経伝達 I****1P-10 CAPS1 stabilizes SVs docking state in hippocampal CA3-CA1 synapses**Yuuki Ishii<sup>1</sup>(石井 佑季)、Chiaki Ishii<sup>1</sup>(石井 千晶)、Yo Shinoda<sup>1,2</sup>(篠田 陽)、Yugo Fukazawa<sup>3</sup>(深澤 有吾)、Tetsushi Sadakata<sup>4</sup>(定方 哲史)、Takuji Iwasato<sup>5,6</sup>(岩里 琢治)、Shigeyoshi Itoharu<sup>2</sup>(糸原 重美)、Teiichi Furuichi<sup>1,2</sup>(古市 貞一)<sup>1</sup>Department of Applied Biological Science, Tokyo University of Science (東京理科大学 理工学部 応用生物科学科) / <sup>2</sup>Laboratory for Memory Mechanisms, RIKEN Brain Science Institute (理研BSI) / <sup>3</sup>Division of Cell Biology and Neuroscience, Faculty of Medical Sciences, University of Fukui (福井大学 組織細胞形態学・神経科学研究室) / <sup>4</sup>Advanced Scientific Research Leaders Development Unit, Gunma University (群馬大学 先端科学研究指導者育成ユニット) / <sup>5</sup>Division of Neurogenetics, National Institute of Genetics (国立遺伝学研究所 神経遺伝学部) / <sup>6</sup>Department of Genetics, SOKENDAI (総研大 遺伝学部)**1P-11 Conditional knockout and optogenetic study on the involvement of the secretion-related protein CAPS1 in oxytocin-associated social and maternal behavior**Haruka Minami<sup>1</sup>(南 春花)、Ryosuke Yamaga<sup>1</sup>(山鹿 亮祐)、Yo Shinoda<sup>1</sup>(篠田 陽)、Kenji Sakimura<sup>2</sup>(崎村 建司)、Manabu Abe<sup>2</sup>(阿部 学)、Teiichi Furuichi<sup>1</sup>(古市 貞一)<sup>1</sup>Dept. of Appl. Biol. Sci., Fac. of Sci. and Tech. Tokyo Univ. of Sci. (東京理科大学理工学部) / <sup>2</sup>Dept. of Cellular Neurobiology BRI, Niigata Univ. (新潟大学 基礎神経科学細胞神経生物)**1P-12 IRBIT suppresses CaMKII-alpha activity and contributes to catecholamine homeostasis through tyrosine hydroxylase phosphorylation**Katsuhiko Kawai<sup>1</sup>(河合 克宏)、Akihiro Mizutani<sup>2</sup>(水谷 顕洋)、Hirota Shoji<sup>3</sup>(昌子 浩孝)、Naoko Ogawa<sup>1</sup>(小川 直子)、Etsuko Ebisui<sup>1</sup>(戎井 悦子)、Yukiko Kuroda<sup>4</sup>(黒田有希子)、Shigeharu Wakana<sup>5</sup>(若菜 茂晴)、Tsuyoshi Miyakawa<sup>3</sup>(宮川 剛)、Chihiro Hisatsune<sup>1</sup>(久恒 智博)、Katsuhiko Mikoshiba<sup>1</sup>(御子柴克彦)<sup>1</sup>Laboratory for Developmental Neurobiology, Brain Science Institute, RIKEN (国立研究開発法人理化学研究所・BSI・発生神経生物学研究チーム) / <sup>2</sup>Department of Pharmacotherapeutics, Showa Pharmaceutical University (昭和薬科大学薬物治療学研究室) / <sup>3</sup>Fujita Health University (藤田保健衛生大学 総合医学研究所 システム医学研究部門) / <sup>4</sup>Laboratory of Cell and Tissue Biology, Keio University School of Medicine (慶応義塾大学医学部) / <sup>5</sup>Technology and Development Team for Mouse Phenotype Analysis, BioResource Center, RIKEN (国立研究開発法人理化学研究所・BRC・マウス表現型解析開発チーム)**1P-13 Generation of GAD65 knockout rats using TALEN-mediated genome editing**Yuchio Yanagawa<sup>1</sup>(柳川右千夫)、Toshikazu Kakizaki<sup>1</sup>(柿崎 利和)、Masahiko Watanabe<sup>2</sup>(渡辺 雅彦)<sup>1</sup>Dept. of Genet. & Behav. Neurosci., Gunma Univ. Grad. Sch. of Med. (群馬大学 医・遺伝発達行動学) / <sup>2</sup>Dept. of Anat., Hokkaido Univ. Grad. Sch. of Med. (北海道大院・医・解剖学)**1P-14 Functional characterization of oxytocin/vasopressin-like peptide in social insect, ants**Hiroki Tahara<sup>1</sup>(田原 拓樹)、Masayuki Miura<sup>1,2</sup>(三浦 正幸)、Akiko Koto<sup>1,2</sup>(古藤 日子)<sup>1</sup>Department of Genetics, Graduate School of Pharmaceutical Sciences, The University of Tokyo (東京大学大学院薬学系研究科遺伝学教室) / <sup>2</sup>CREST (科学技術振興機構)**Synapse I**  
**シナプス I****1P-15 Dual imaging of SVs and DCVs exocytosis**Yui Nakajima<sup>1</sup>(中島 柚依)、Yo Shinoda<sup>1</sup>(篠田 陽)、Teiichi Furuichi<sup>1,2</sup>(古市 貞一)<sup>1</sup>Dept. of Appl. Biol. Sci., Fac. of Sci. and Technol., Tokyo Univ. of Sci. (東京理科大学 理工学部 応用生物) / <sup>2</sup>RIKEN Brain Science Institute (理研BSI)**1P-16 Neuropilin dependent synaptic tagging in vivo**

Yasuyuki Ishikawa (石川 保幸)

Dept. of Systems Life Engineering, Maebashi Institute of Technology (前橋工科大・工・システム生体工学)

- 1P-17**      **The role of metabotropic glutamate receptor on structural plasticity of dendritic spines in cultured hippocampal neurons**  
 Ryoma Kakegawa(掛川 竜馬)、Shingo Kamasaki(釜崎 真吾)、Takashi Todoriki(等々力 崇)、Nobuhiko Kojima(児島 伸彦)  
 Graduate school of Life Sciences, Toyo University(東洋大学大学院生命科学研究科)
- 1P-18**      **Deletion of drebrin A impairs hippocampal synaptic plasticity and hippocampus-dependent fear learning in adulthood**  
 Hiroki Yasuda<sup>1</sup>(安田 浩樹)、Nobuhiko Kojima<sup>2,3</sup>(児島 伸彦)、Kenji Hanamura<sup>3</sup>(花村 健次)、Tomoaki Shirao<sup>1,3</sup>(白尾 智明)  
<sup>1</sup>ERSC, Med., Gunma Univ.(群馬大院・医・教研センター)/<sup>2</sup>Toyo Univ., Life Sci.(東洋大・生命科学)/<sup>3</sup>Neuropharm., Med., Gunma Univ.(群馬大・医・神経薬理)
- 1P-19**      **EphB Extracellular Phosphorylation Controls Pathological Pain and Synaptic Function of NMDA Receptors**  
 Kenji Hanamura<sup>1,2</sup>(花村 健次)、Sean Sheffler-Collins<sup>2,5</sup>、Nan Xia<sup>2</sup>、Washburn Halley<sup>2</sup>、Dipti Tilu<sup>3</sup>、Shayne Hassler<sup>6</sup>、Daniel Spellman<sup>4</sup>、Guoan Zhang<sup>4</sup>、Thomas Neubert<sup>4</sup>、Theodore Price<sup>6</sup>、Matthew Dalva<sup>2</sup>  
<sup>1</sup>Department of Neurobiology and Behavior, Gunma University Graduate School of Medicine(群馬大院・医・神経薬理)/<sup>2</sup>Department of Neuroscience and Farber Institute for Neurosciences, Thomas Jefferson University(トーマスジェファーソン大学神経科学部門、ファーバー神経科学研究所)/<sup>3</sup>Departments of Pharmacology, The University of Arizona College of Medicine(アリゾナ大学医学部薬理学部門)/<sup>4</sup>Department of Pharmacology and Kimmel Center for Biology and Medicine at the Skirball Institute, New York University School of Medicine(ニューヨーク大学医学部薬理学部門、キンメル生物医学センター)/<sup>5</sup>Neuroscience Graduate Group, University of Pennsylvania School of Medicine(ペンシルバニア大学大学院神経科学グループ)/<sup>6</sup>School of Behavioral and Brain Sciences, University of Texas at Dallas(テキサス大学ダラス校行動脳科学部)
- 1P-20**      **NMDA receptors are involved in X-irradiation-induced decrease in drebrin clusters within dendritic spines of cultured hippocampal neurons**  
 Shuchuan Miao(苗 樹川)、Anggraeini Puspitasari(プスピタサリーアングライニー)、Kenji Hanamura(花村 健次)、Noriko Koganezawa(小金澤紀子)、Reiko Roppongi(六本木麗子)、Tomoaki Shirao(白尾 智明)  
 Department of Neurobiology and Behavior(群馬大院・医・神経薬理)
- 1P-21**      **Effect of histone deacetylase inhibitor on synaptic dysfunction elicited by X-irradiation**  
 Takashi Hiruma(蛭間 貴司)、Noriko Koganezawa(小金澤紀子)、Anggraeini Puspitasari(プスピタサリーアングライニー)、Tomoaki Shirao(白尾 智明)  
 Department of Neurobiology and Behavior, Gunma University Graduate School of Medicine(群馬大学大学院医学系研究科神経薬理学)
- 1P-22**      **The effect of carbon ion irradiation on cell motility in human glioblastoma cell lines**  
 Tomoki Matsumoto(松本 友己)、Yukari Yoshida(吉田由香里)、Tomoko Yakoh(八高 知子)、Akihisa Takahashi(高橋 昭久)、Takashi Nakano(中野 隆史)  
 Gunma University Heavy Ion Medical Center(群馬大学重粒子線医学研究センター)
- 1P-23**      **The molecular mechanisms of cell motility by X-ray irradiation in human glioblastoma cell lines**  
 Yukihiro Sejimo(瀬下 幸彦)、Yukari Yoshida(吉田由香里)、Tomoki Matsumoto(松本 友己)、Tomoko Yakoh(八高 知子)、Akihisa Takahashi(高橋 昭久)、Takashi Nakano(中野 隆史)  
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 Poster

**Neural Development · Neural Differentiation I**  
**神経系の発生と分化 I**

- 1P-24**      **Maternal separated mice show the anxiety- and fear-related behavior and change neurogenesis in the limbic system**  
 Harumitsu Suzuki(鈴木 春満)、Hongyu Li(李 洪宇)、Aoi Tanaka(田中 葵)、Natsu Koyama(小山 なつ)、Seiji Hitoshi(等 誠司)  
 Dept. of Integrative Physiology, Shiga Univ. of Med. Sci.(滋賀医科大学 統合臓器生理)

1P-25 **Proteomic characterization during differentiation from human embryonic stem cells into early and late neural stem cells by neural stem sphere method**

Kuniko Akama<sup>1,2</sup>(赤間 邦子)、Gen Shibasaki<sup>2</sup>(柴崎 玄)、Tetsutaro Tomioka<sup>2</sup>(富岡鉄太郎)、Akihiro Totsuka<sup>3</sup>(戸塚 啓太)、Masahiro Otsu<sup>4,5</sup>(大津 昌弘)、Nobuo Inoue<sup>4</sup>(井上 順雄)、Takashi Nakayama<sup>6</sup>(中山 孝)、Yuri Miura<sup>7</sup>(三浦 ゆり)、Machiko Iwamoto<sup>7</sup>(岩本真知子)、Hiroki Tsumoto<sup>7</sup>(津元 裕樹)、Mamoru Satoh<sup>8</sup>(佐藤 守)、Sayaka Kado<sup>9</sup>(荷堂 清香)、Yutaka Suzuki<sup>10</sup>(鈴木 豊)、Yasushi Kondo<sup>10</sup>(近藤 靖)

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1P-26 **Role of Kruppel-like factor 5 in neural precursor cells during brain development**

Takahiro Fuchigami<sup>1</sup>(渕上 孝裕)、Yoshitaka Hayashi<sup>1</sup>(林 義剛)、Anri Kuroda<sup>1</sup>(黒田 杏里)、Shouhei Ishida<sup>1</sup>(石田 正平)、Yukako Yamashita<sup>1</sup>(山下友桂子)、Masatsugu Ema<sup>2</sup>(依馬 正次)、Seiji Hitoshi<sup>1</sup>(等 誠司)

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1P-27 **Role of Protease-activated receptor-1 in proliferation of neural stem/progenitor cells derived from the adult mouse hippocampal dentate gyrus**

Masanori Yoneyama (米山 雅紀)、Masayuki Tanaka (田中 雅幸)、Shinjiro Yamamura (山邑伸二郎)、Kiyokazu Ogita (萩田喜代一)

Laboratory of Pharmacology, Faculty of Pharmaceutical Sciences, Setsunan University (摂南大学薬学部薬理学研究室)

1P-28 **The dorsoventral boundary of the germinal zone is a specialized niche for the generation of cortical oligodendrocytes**

Seiji Hitoshi<sup>1,3</sup>(等 誠司)、Jun Asuke<sup>1</sup>(足助 洵)、Masae Naruse<sup>2,3</sup>(成瀬 雅衣)、Kazuhiro Ikenaka<sup>3</sup>(池中 一裕)

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1P-29 **Expression profiling of ubiquitin ligases with transmembrane domain in the brain**

Masayuki Kaneko<sup>1</sup>(金子 雅幸)、Yan Wu<sup>1</sup>(呉 艶)、Tomoko Takai<sup>1</sup>(高井 知子)、Yasuyuki Nomura<sup>2</sup>(野村 靖幸)、Kazunori Imaizumi<sup>1</sup>(今泉 和則)

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1P-30 **Evidence for involvement of apoptosis in establishing proper cerebrospinal fluid hydrodynamics**

Yoshifumi Yamaguchi<sup>1,2</sup>(山口 良文)、Ayako Yoshida<sup>1</sup>(吉田 綾子)、Daisuke Kawata<sup>1</sup>(河田 大輔)、Naomi Shinotsuka<sup>1</sup>(篠塚 直美)、Mariko Yoshida<sup>1</sup>(吉田真梨子)、Masayuki Miura<sup>1,3</sup>(三浦 正幸)

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9/11 (Fri)  
Poster

**Neuronal Death・Apoptosis**  
**神経細胞死・アポトーシス**

1P-31 **Age-related cell death of *Drosophila* Or42b neurons is induced by activation of innate immune response**

Kenichi Takeuchi<sup>1</sup>(竹内 健一)、Takahiro Chihara<sup>1,2</sup>(千原 崇裕)、Masayuki Miura<sup>1,2</sup>(三浦 正幸)

<sup>1</sup>Graduate school of Pharm. Sci., Univ of Tokyo (東大院・薬・遺伝学)/<sup>2</sup>CREST, JST

- 1P-32** **ER and Golgi stresses upregulate ER-Golgi SNARE Syntaxin5 and suppress A $\beta$  peptide secretion in primary hippocampal neurons**  
 Kei Suga(須賀 圭)、Ayako Saito(齋藤 綾子)、Tatsuya Mishima(三嶋 竜弥)、  
 Kimio Akagawa(赤川 公朗)  
 Dept. Cell Physiol., Kyorin Univ. Sch. of Med.(杏林大・医・細胞生理)
- 1P-33** **Reactive oxygen species-generating activity in lysosomes contributes to an iron-dependent form of cell death**  
 Ryosuke Shintoku<sup>1,2</sup>(神徳 亮介)、Chisato Kubota<sup>1</sup>(久保田知里)、Makoto Yaegashi<sup>1</sup>(八重樫 誠)、  
 Yuhei Yoshimoto<sup>2</sup>(好本 裕平)、Seiji Torii<sup>1</sup>(鳥居 征司)  
<sup>1</sup>Secretion Biology Lab, Institute for Molecular and Cellular Regulation, Gunma University(群馬大学生体調節研究所分泌制御分野)/<sup>2</sup>Department of Neurosurgery, Gunma University Graduate School of Medicine(群馬大学医学系研究科脳神経外科学)
- 1P-34** **Effect of Arginine methylation via PRMT 1 on organella**  
 Genki Amano<sup>1</sup>(天野 元揮)、Shinsuke Matsuzaki<sup>1,2</sup>(松崎 伸介)、Haruka Mukai<sup>1</sup>(向井 春香)、  
 Yasutake Mori<sup>2</sup>(森 泰丈)、Hironori Takamura<sup>1</sup>(高村 明孝)、Hiroki Sato<sup>1</sup>(佐藤 大樹)、  
 Sarina Han<sup>1</sup>(薩 日娜)、Ko Miyoshi<sup>1</sup>(三好 耕)、Taiichi Katayama<sup>1</sup>(片山 泰一)  
<sup>1</sup>Molecular Brain Science, United Graduate School of Child Development, Osaka University(大阪大学大学院連合小児発達学研究所分子生物遺伝学)/<sup>2</sup>Anatomy and Neuroscience, Graduate School of Medicine, Osaka University(大阪大学大学院医学系研究科神経機能形態学)

9/11 (Fri)  
 Poster

**Glia · Myelin I**  
**グリア・ミエリンI**

- 1P-35** **Characterization of zinc uptake by mouse primary cultured astrocytes and microglia**  
 Akihiro Koike(小池 晃広)  
 Department of Environmental Biochemistry, Kyoto Pharmaceutical University(京都薬科大学衛生化学分野)
- 1P-36** **Oxidative stress enhances zinc clearance via upregulation of ZIP1 expression at the plasma membrane in astrocytes**  
 Takahiro Furuta(古田 能裕)、Chiaki Ohshima(大嶋 千晶)、Naoto Takebayashi(竹林 直人)、  
 Mayu Matsumura(松村 真裕)、Kentaro Nishida(西田健太郎)、Kazuki Nagasawa(長澤 一樹)  
 Department of Environmental Biochemistry, Kyoto Pharmaceutical University(京都薬科大学衛生化学分野)
- 1P-37** **Involvement of Mlc 1 in white matter development and maintenance**  
 Shouta Sugio<sup>1,2</sup>(杉尾 翔太)、Kazuhiro Ikenaka<sup>2</sup>(池中 一裕)、Kenji F Tanaka<sup>3</sup>(田中 謙二)  
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<sup>2</sup>Division of Neurobiology and Bioinformatics, National Institute for Physiological Sciences(自然科学研究機構 生理学研究所 分子神経生理研究部門)/<sup>3</sup>Department of Neuropsychiatry, Keio University School of Medicine(慶應義塾大学医学部 精神・神経科学教室)
- 1P-38** **Activation of P2X7 receptor/HIF-1 $\alpha$  signal pathway in astrocytes induces ischemic tolerance**  
 Yuri Hirayama<sup>1</sup>(平山 友里)、Yuri Ikeda-Matsuo<sup>3</sup>(松尾 由理)、Schuichi Koizumi<sup>2</sup>(小泉 修一)  
<sup>1</sup>Dept. Liaison Academy, Sch. Med., Univ. Yamanashi(山梨大・総合(医学域)・リエゾンアカデミー)/<sup>2</sup>Dept. Neuropharmacol., Interdisciplinary Grad. Sch. Med., Univ. Yamanashi(山梨大・院・総合(医学域)・薬理)/<sup>3</sup>Dept. Pharmacol., Sch. Pharm. Sci., Univ. Kitasato(北里大・薬・薬理)
- 1P-39** **Hedgehog signaling modulates the release of gliotransmitters from cultured cerebellar astrocytes.**  
 Hiroaki Okuda(奥田 洋明)、Kouko Tatsumi(辰巳 晃子)、Shoko Morita(森田 晶子)、  
 Akio Wanaka(和中 明生)  
 Dept Anatomy and Neuroscience, Nara Medical University(奈良医大・第二解剖)
- 1P-40** **The mechanism of Denosomin in astrocytes leading to release of axonal growth factors**  
 Yoshitaka Tanie(谷江 良崇)、Michiko Sigyo(執行美智子)、Norio Tanabe(田辺 紀生)、  
 Tomoharu Kuboyama(久保山友晴)、Chihiro Tohda(東田 千尋)  
 Div. of Neuromedical Science, Inst. of Natural Medicine, Univ. of Toyama(富山大学和漢医学薬学総合研究所神経機能学分野)

**1P-41 Acetate attenuates LPS-induced nitric oxide production in cultured astrocytes**

Mitsuaki Moriyama(森山 光章)、Ryosuke Kurebayashi(呉林 亮祐)、Kenji Kawabe(河邊 憲司)、Ayano Hashimoto(橋本 綾乃)、Katsura Takano(高野 桂)、Yoichi Nakamura(中村 洋一)

Laboratory of Integrative Physiology in Veterinary Sciences, Osaka Prefecture University(大阪府立大学大学院・生命環境科学研究所・統合生理学)

**1P-42 Potent induction of glycogen metabolism by pituitary adenylate cyclase-activating polypeptide on cultured astrocytes**

Yuki Kambe<sup>1</sup>(神戸 悠輝)、Yu Nakashima<sup>1</sup>(中島 優)、Norihiro Shintani<sup>2</sup>(新谷 紀人)、Hitoshi Hashimoto<sup>2,3</sup>(橋本 均)、Atsuro Miyata<sup>1</sup>(宮田 篤郎)

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**1P-43 Characterization of Olig2-positive astrocytes in the normal adult forebrain**

Kouko Tatsumi(辰巳 晃子)、Hiroaki Okuda(奥田 洋明)、Shoko Morita(森田 晶子)、Akio Wanaka(和中 明生)

Department of Anatomy and Neuroscience, Nara Medical University(奈良県医大・医・第2解剖学)

**1P-44 The role of CD38, an Autism Spectrum Disorder (ASD)-associated molecule, in the development of glial cells**

Tsuyoshi Hattori<sup>1</sup>(服部 剛志)、Mika Takarada-Iemata<sup>1</sup>(宝田 美佳)、Yasuhiko Yamamoto<sup>3</sup>(山本 靖彦)、Hiroshi Okamoto<sup>4</sup>(岡本 宏)、Haruhiro Higashida<sup>2</sup>(東田 陽博)、Osamu Hori<sup>1</sup>(堀 修)

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**1P-45 Functional analysis of a Down syndrome-associated gene.**

Ken-ichi Dewa<sup>1,2</sup>(出羽 健一)、Schuichi Koizumi<sup>1</sup>(小泉 修一)、Mikio Hoshino<sup>2</sup>(星野 幹雄)、Shinichiro Taya<sup>2</sup>(田谷真一郎)、Nariko Arimura<sup>2</sup>(有村奈利子)

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**1P-46 Involvement of Ndr2 in blood-brain barrier disruption after stroke**

Mika Takarada-Iemata<sup>1</sup>(宝田 美佳)、Akifumi Yoshikawa<sup>2</sup>(吉川 陽文)、Yasuhiro Aida<sup>2</sup>(会田 泰裕)、Ta Minh Hieu<sup>1</sup>(ミンヒュウタ)、Tsuyoshi Hattori<sup>1</sup>(服部 剛志)、Le Manh Thuong<sup>1</sup>(マントウンレ)、Yasuko Kitao<sup>1</sup>(北尾 康子)、Mitsutoshi Nakada<sup>2</sup>(中田 光俊)、Osamu Hori<sup>1</sup>(堀 修)

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**1P-47 Treatment of hyperbaric oxygenation combined with radiotherapy improves radioresponsiveness of Glioblastoma.**

Chiaki Katagiri<sup>1,2</sup>(片桐 千秋)、Hideki Nagamine<sup>1</sup>(長嶺 英樹)、Masayuki Matsushita<sup>2</sup>(松下 正之)、Shogo Ishiuchi<sup>1</sup>(石内 勝吾)

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9/11 (Fri)  
Poster

**Mood Disorders・Stress・Epilepsy  
気分障害・ストレス・てんかん**

**1P-48 Development of a novel method for assessing motivation in male mice**

Shigeru Hasebe<sup>1</sup>(長谷部 茂)、Yukio Ago<sup>2</sup>(吾郷由希夫)、Satoshi Oka<sup>2</sup>(岡 智史)、Yusuke Onaka<sup>2</sup>(尾中 勇祐)、Hitoshi Hashimoto<sup>2,3</sup>(橋本 均)、Toshio Matsuda<sup>1</sup>(松田 敏夫)、Kazuhiro Takuma<sup>1,3</sup>(田熊 一敏)

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- 1P-49 Antidepressant-like effect of resolvin E2 against lipopolysaccharide-induced depression-like behavior in mice**  
 Kento Shimoda<sup>1</sup>(霜田 健斗)、Satoshi Deyama<sup>1</sup>(出山 諭司)、Soichiro Ide<sup>1</sup>(井手聡一郎)、Hayato Fukuda<sup>2</sup>(福田 隼)、Satoshi Shuto<sup>2</sup>(周東 智)、Masabumi Minami<sup>1</sup>(南 雅文)  
<sup>1</sup>Dept. Pharmacol, Grad. Sch. Pharm. Sci, Hokkaido Univ.(北海道大学大学院薬学研究院薬理学)/<sup>2</sup>Dept. Organic Chemistry for Drug Development, Grad. Sch. Pharm. Sci, Hokkaido Univ.(北海道大学大学院薬学研究院創薬有機化学)
- 1P-50 Antidepressants via nitric oxide system –A pilot study in acute depressive model with arginine.**  
 Yuta Yoshino(吉野 祐太)、Tomoji Kitano(北野 知地)、Shunsuke Nakata(中田 俊輔)、Shinichiro Ochi(越智紳一郎)、Shu-ichi Ueno(上野 修一)  
 Department of Neuropsychiatry, Ehime University Graduate School of Medicine(愛媛大学医学部医学系研究科精神神経科)
- 1P-51 Search for the blood-based biomarkers of late-onset major depressive disorder from the patients and the model mice**  
 Masahiko Mikuni(三國 雅彦)、Shigeo Miyata(宮田 茂雄)、Noriko Sakurai(櫻井 敬子)、Masato Fukuda(福田 正人)  
 Department of Psychiatry and Neuroscience, Gunma University(群馬大院・医・神経精神医学)
- 1P-52 MicroRNA normalizes glucocorticoid receptor levels in neuron and oligodendrocytes after stress exposure**  
 Shingo Miyata(宮田 信吾)、Shoko Shimizu(清水 尚子)、Takashi Tanaka(田中 貴士)、Masaya Tohyama(遠山 正彌)  
 Div Mol Brain Sci, Res Ins Tra Asian Med, Kinki Univ(近畿大・東医・分子脳科学)
- 1P-53 Influence of aminergic modulation and stress on kainic acid-induced neuronal oscillations in anterior cingulate cortex**  
 Rina Shinozaki<sup>1</sup>(篠崎 吏那)、Miki Hashizume<sup>1</sup>(橋爪 幹)、Hideo Mukai<sup>2</sup>(向井 秀夫)、Takayuki Murakoshi<sup>1</sup>(村越 隆之)  
<sup>1</sup>Department of Biochemistry, Faculty of Medicine, Saitama Medical University(埼玉医科大学 医学部 生化学)/<sup>2</sup>Department of Computer Science, School of Science and Technology, Meiji University(明治大学 理工学部 情報科学科)
- 1P-54 Contrasting feature of ERK1/2 activation and synapsin I phosphorylation at the ERK1/2-dependent site in the rat brain during epileptic seizure activity in vivo**  
 Yoko Yamagata<sup>1,2</sup>(山肩 葉子)、Angus C. Nairn<sup>3,4</sup>(アングス C. ネルン)、Kunihiko Obata<sup>1</sup>(小幡 邦彦)、Keiji Imoto<sup>1,2</sup>(井本 敬二)  
<sup>1</sup>Natl Inst for Physiol Sci(生理研)/<sup>2</sup>SOKENDAI(総研大)/<sup>3</sup>Yale Univ(イェール大)/<sup>4</sup>Rockefeller Univ(ロックフェラー大)
- 1P-55 BRINP expressions in pentylenetetrazol-kindled mice**  
 Miwako Kobayashi<sup>1</sup>(小林三和子)、Hanako Asakawa<sup>1</sup>(浅川 華子)、Yasuhiro Kono<sup>1</sup>(河野 泰宏)、Sayaka Waki<sup>1</sup>(輪木 彩香)、Kenshi Takechi<sup>2</sup>(武智 研志)、Akihiro Tanaka<sup>2</sup>(田中 亮裕)、Hiroaki Araki<sup>2</sup>(荒木 博陽)、Ichiro Matsuoka<sup>1</sup>(松岡 一郎)  
<sup>1</sup>Col. of Pharm. Sci, Matsuyama Univ.(松山大学・薬・生理化学)/<sup>2</sup>Division of Pharmacy, Ehime University Hospital(愛媛大学医学部附属病院 薬剤部)
- 1P-56 The basic mechanisms underlying ketogenic diet : a neuronal autocrine regulation through adenosine receptor**  
 Masahito Kawamura(川村 将仁)  
 Dept. Pharmacol, Jikei Univ. Sch. Med.(慈恵医大・薬理)