

Neurite Outgrowth · Network Formation
突起伸展 · 回路網形成

- 3P-01** **Anti-phospho-GAP-43 pSer96 antibody as a novel molecular marker for axonal growth and regeneration**
Masayasu Okada^{1,2}(岡田 正康)、Asami Kawasaki^{2,3}(河崎 麻実)、Kosei Takeuchi^{2,4}(武内 恒成)、Atsushi Tamada^{2,3}(玉田 篤史)、Fubito Nakatsu²(中津 史)、Yukihiko Fujii¹(藤井 幸彦)、Michihiro Igarashi^{2,3}(五十嵐道弘)
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- 3P-02** **JNK-mediated phosphorylation of GAP-43 promotes axonal growth**
Asami Kawasaki^{1,2}(河崎 麻実)、Daiki Kobayashi¹(小林 大紀)、Masayasu Okada³(岡田 正康)、Kosei Takeuchi⁴(武内 恒成)、Michihiro Igarashi^{1,2}(五十嵐道弘)
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- 3P-03** **Neurite outgrowth and bipolarization in PC 12 cells and cerebral cortical neurons induced by a low concentration of bisphenol A**
Hiroki Aoyama¹(青山 大輝)、Satoshi Fujieda²(藤枝 聡志)、Soichiro Genko¹(玄古宗一郎)、Kumi Matsuura²(松浦 玖実)、Toshiyuki Mizui³(水井 利幸)、Masami Kojima³(小島 正巳)、Koji Shimoke^{1,2}(下家 浩二)
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- 3P-04** **Activation of RhoA/Rho-kinase by CaMKI-mediated phosphorylation of GEF-H1 regulates neuronal polarization**
Tetsuya Takano(高野 哲也)、Shinichi Nakamuta(中牟田信一)、Mengya Wu(呉 夢雅)、Naruki Ishizawa(石澤 成樹)、Chundi Xu(シューチュンデイ)、Takashi Namba(難波 隆志)、Mutsuki Amano(天野 陸紀)、Kozo Kaibuchi(貝淵 弘三)
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- 3P-05** **Function and expression of the mouse RasGEF1 family proteins**
Kenta Hosaka(保坂 健大)、Yo Shinoda(篠田 陽)、Teiichi Furuichi(古市 貞一)
Fac of Sci and Tech, Tokyo Univ of Sci (東京理科大・理工)
- 3P-06** **Lemur Kinase 1A (LMTK1A) may coordinate membrane and cytoskeletal dynamics in neurite outgrowth.**
Govinda Sharma¹、Koji Tsutsumi¹、Akiko Asada¹、Taro Saito¹、Mineko Tomomura²
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- 3P-07** **Role of N-glycans to a function of a trans-membrane protein, seizure-related gene 6 (sez-6)**
Chiharu Hidaka(日高 千晴)、Shinichi Mitsui(三井 真一)
Department of Rehabilitation Sciences, Gunma University Graduate School of Health Sciences (群馬大学大学院保健学研究科リハビリテーション学講座)

- 3P-08 Deletion of FILIP influenced the development of peripheral nerve**
Hideshi Yagi¹(八木 秀司)、Hirosato Kanda²(神田 浩里)、Koichi Noguchi²(野口 光一)、Makoto Sato^{3,4,5}(佐藤 真)
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- 3P-09 Visualizing single-neuron identity defined by Pcdh-β cluster in mouse brain**
Ryosuke Kaneko¹(金子 涼輔)、Manabu Abe²(阿部 学)、Masahiko Watanabe⁴(渡辺 雅彦)、Kenji Sakimura²(崎村 建司)、Yuchio Yanagawa¹(柳川右千夫)、Takeshi Yagi³(八木 健)
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- 3P-10 Analysis of protein synthesis in growth cones of rat dorsal root ganglion neurons**
Osamu Hoshi¹(星 治)、Yuichiro Cho¹(長 雄一郎)、Nobuyuki Takei²(武井 延之)
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- 3P-11 Drebrin stabilizes CaMKIIβ in core region but not in postsynaptic density of dendritic spine**
Hiroyuki Yamazaki(山崎 博幸)、Tomoaki Shirao(白尾 智明)
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- 3P-12 Structural basis for cargo binding and autoinhibition of retrograde transport adaptor Bicaudal D1**
Asuka Yoshikane¹(吉兼明日香)、Shin-ichi Terawaki¹(寺脇 慎一)、Yoshiki Higuchi²(樋口 芳樹)、Kaori Wakamatsu¹(若松 馨)
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- 3P-13 The contribution of the di-leucine motif in p35 to determine the distribution difference between neuronal cyclin-dependent kinase 5 (Cdk5) activators p35 and p39**
Akiko Asada(浅田 明子)、Taro Saito(斎藤 太郎)、Shin-ichi Hisanaga(久永 眞市)
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Trophic factors · Cytokines
栄養因子・サイトカイン

- 3P-14 The effects of accumbal BDNF overexpression on aversive memory**
Fumiya Izumiseki¹(泉関美美也)、Iku Kimura¹(木村 生)、Akiko Miyamoto²(宮本愛喜子)、Junichi Nabekura²(鍋倉 淳一)、Masaru Mimura¹(三村 将)、Kenji F Tanaka¹(田中 謙二)
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- 3P-15 Difference in a translation start site in BDNF exon I and exon IX.**
Miyuki Saika(雑賀美友紀)、Mamoru Fukuchi(福地 守)、Akiko Tabuchi(田淵 明子)、Masaaki Tsuda(津田 正明)
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- 3P-16 FGF-1 release induced by oxidative stress enhances apoE/HDL generation of rat astrocytes in the autocrine manner**
Jinichi Ito(伊藤 仁一)、Yuko Nagayasu(長安 祐子)、Makoto Michikawa(道川 誠)
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3P-17 TNF α and IL-1 β are differentially induced in microglia through distinct combination of MAP kinases

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3P-18 Microglia regulate the cytokine/chemokine dynamics in the brain and enhance the functional maturation of blood-brain barrier.

Yukari Shigemoto-mogami(最上 (重本) 由香里)、Kazue Hoshikawa(干川 和枝)、Yuko Sekino(関野 祐子)、Kaoru Sato(佐藤 薫)

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3P-19 Function of activated microglia following hypoglossal nerve axotomy.

Tatsuhide Tanaka(田中 達英)、Koichi Murakami(村上 公一)、Taichi Nomura(野村 太一)、Yoshio Bando(板東 良雄)、Shigetaka Yoshida(吉田 成孝)

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3P-20 Possible involvement of the secretion-related protein CAPS2 in regulation of dynorphin, one of the endogenous opioids, secretion

Momoko Katakai(片貝 桃子)、Yo Shinoda(篠田 陽)、Teiichi Furuichi(古市 貞一)

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3P-21 Effect of repetitive and transcranial near infrared irradiation on inflammatory processes in the brain of rats.

Taro Talahashi¹(高橋 太郎)、Kohei Yamada²(山田 浩平)、Katsuaki Suzuki¹(鈴木 勝昭)、Mahesh Mundalil Vasu¹(ムンダリル パースマヘッシュ)、Tomoyasu Wakuda¹(和久田智靖)、Norio Mori¹(森 則夫)

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**Neural Metabolism
神経系の代謝**

3P-22 Setpoint of core body temperature is remodeled prior to hibernation in a obligatory hibernator, Mesocricetus auratus.

Yuichi Chayama¹(茶山 由一)、Lisa Ando¹(安藤 理沙)、Masayuki Miura^{1,2}(三浦 正幸)、Yoshifumi Yamaguchi^{1,3}(山口 良文)

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3P-23 Analyses of metabolic changes of neurons using cultured hippocampal slices

Sho Hasegawa¹(長谷川 翔)、Nobuyuki Okahashi²(岡橋 伸幸)、Takashi Matsubara³(松原 崇)、Keiko Tominaga-Yoshino¹(富永 (吉野) 恵子)、Kojiro Isii⁴(石井浩二郎)、Hiroshi Simizu²(清水 浩)、Akihiko Ogura¹(小倉 明彦)

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- 3P-24** **Shat1/Nat8l induces axon outgrowth via energy metabolism in the primary cultured neurons of mice**
 Atsumi Nitta¹(新田 淳美)、Kazuyuki Sumi¹(鷺見 和之)、Kyosuke Uno¹(宇野 恭介)、Shohei Matsumura¹(松村 祥平)、Yoshiaki Miyamoto¹(宮本 嘉明)、Yoko Furukawa-Hibi²(日比 陽子)、Shin-ichi Muramatsu³(村松 慎一)、Toshitaka Nabeshima⁴(鍋島 俊隆)
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- 3P-25** **LAMP2C, a receptor for novel lysosomal RNA/DNA degradation systems, possesses an arginine-rich motif that mediates RNA/DNA-binding**
 Yuuki Fujiwara(藤原 悠紀)、Katsunori Hase(長谷 勝徳)、Keiji Wada(和田 圭司)、Tomohiro Kabuta(株田 智弘)
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- 3P-26** **The protective effects of high dose adenosine deaminase during oxygen glucose deprivation on rat corticostriatal slices.**
 Risa Tamura¹(田村 吏沙)、Hiroyuki Ohta¹(太田 宏之)、Masashi Nibuya²(丹生谷正史)、Yasushi Sato³(佐藤 泰司)、Yasuhiro Nishida¹(西田 育弘)
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Alzheimer's Disease
アルツハイマー病

- 3P-27** **QUANTITATIVE ANALYSIS OF GSK3 β ACTIVITY IN CELLS AND BRAINS**
 Ambika Krishnankutty, Taeko Kimura, Ryo Yonezawa, Taro Saito, Akiko Asada, Shin-ichi Hisanaga
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- 3P-28** **An autophagy-inducing herbal extract alleviates the pathology of Alzheimer's disease**
 Yung-Feng Liao¹, Rita P.-Y. Chen², Chang-Jen Huang²
¹Institute of Cellular and Organismic Biology, Academia Sinica/²Institute of Biological Chemistry, Academia Sinica
- 3P-29** **The abundance of nonphosphorylated tau among heterogeneously phosphorylated tau species in vivo in mouse and human tauopathy brains**
 Taeko Kimura¹(木村 妙子)、Hiroyuki Hatsuta²(初田 裕幸)、Masami Masuda-Suzukake³(鈴掛増田雅美)、Masato Hosokawa³(細川 雅人)、Koichi Ishiguro⁴(石黒 幸一)、Haruhiko Akiyama³(秋山 治彦)、Shigeo Murayama²(村山 繁雄)、Masato Hasegawa³(長谷川成人)、Shin-ichi Hisanaga¹(久永 眞市)
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- 3P-30** **Sustained rise in body temperature exacerbates the pathologies of Alzheimer disease in mice.**
 Hiroyuki Enomoto¹(榎本 啓行)、Reiko Kato²(加藤 玲子)、Mari Nunome¹(布目 真梨)、Mohammad Abdullah¹(アブドラモハンマド)、JianSheng Gong¹(キョウケンセイ)、Cha-Gyun Jung¹(鄭 且均)、Hitoshi Yamashita²(山下 均)、Makoto Michikawa¹(道川 誠)
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3P-31 Intracellular A β Oligomers Cause Tau-Independent Spine Alteration and Defect of Axonal and Dendritic Transport

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3P-32 Differential effects of angiotensin II receptor blockers on A β generation

Junjun Liu(劉 俊俊)、Shuyu Liu(劉しゅう余)、Saki Murakami(村上 咲)、Yusuke Sugakawa(菅川 悠介)、Ayako Kami(賀美 綾子)、Chiaki Tanabe(田邊 千晶)、Tomoji Maeda(前田 智司)、Kun Zou(鄒 鶴)、Hiroto Komano(駒野 宏人)

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3P-33 The role of Rap1A in Cas/HEF1 associated signal transducer-induced neuronal death

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3P-34 Leptin inhibits expression of neprilysin in cultured astrocytes

Naoki Yamamoto^{1,2}(山本 直樹)、Mamoru Tanida³(谷田 守)、Yoko Ono²(大野 陽子)、Rika Kasahara²(笠原 梨加)、Kenji Suzuki²(鈴木 健二)、Kazuya Sobue⁴(祖父江和哉)

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3P-35 Coffee reduces BACE1 expression in human neuroblastoma SH-SY5Y cells.

Kazuya Fukuyama¹(福山 和也)、Shota Kakio¹(垣尾 翔大)、Soichiro Enoki²(榎 崇一郎)、Kenji Kobata²(古旗 賢二)、Toshiharu Suzuki³(鈴木 利治)、Megumi Funakoshi-Tago¹(多胡めぐみ)、Hiroomi Tamura¹(田村 悦臣)

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3P-36 Effect of A β on exosome release from astrocytes in culture

Mohammad Abdullah(アブドラモハンマド)、Hiroyuki Enomoto(榎本 啓行)、Mari Nunome(布目 真梨)、JianSheng Gong(キョウ建生)、Makoto Michikawa(道川 誠)

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3P-37 Diosgenin decreases the expression of HSC70 and improves memory function in Alzheimer's disease model mice.

Ximeng Yang(楊 熙蒙)、Tomoharu Kuboyama(久保山友晴)、Chihiro Tohda(東田 千尋)

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3P-38 Cytosolic Asparatate Aminotransferase Relates to Axonal Growth Control under A β Treatment

Ryo Kobayashi¹(小林 諒)、Hidetoshi Watari^{1,2}(渡り 英俊)、Yutaka Shimada²(嶋田 豊)、Chihiro Tohda¹(東田 千尋)

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3P-39 Tau phosphorylation via microtubule-affinity-regulating-kinase (MARK)/PAR-1 as an initial step in the pathological cascade leading to neurodegeneration

Kanae Ando¹(安藤香奈絵)、Motoki Hayashishita¹(林下 幹輝)、Mikiko Oka¹(岡 未来子)、Akiko Maruko-Otake²(円子-大竹顕子)、Yosuke Ohtake³(大竹 洋輔)、Koichi M. Iijima^{4,5}(飯島 浩一)

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Parkinson's Disease · Neuronal Degeneration · Muscle Disorders
パーキンソン病 · 神経変性疾患 · 筋疾患

- 3P-40** **PUFA-derived lipid peroxide enhances alpha-synuclein toxicity through perturbation of autophagy system**
Wakako Maruyama(丸山和佳子)、Masayo Shamoto-Nagai(永井(社本)雅代)、Makoto Naoi(直井 信)
Dept. of Health Nutr Facult. Psychol. Physical Sci. Aichi Gakuin Univ.(愛知学院大 心身科学部 健康栄養学科)
- 3P-41** **Analysis of contextual fear memory and hippocampal CREB phosphorylation in 1-methyl-4-phenyl-1, 2, 3, 6, tetrahydropyridine (MPTP)-induced mouse model of Parkinson's disease**
Ken-ichi Kinoshita^{1,2}(木下 健一)、Yoshikage Muroi²(室井 喜景)、Toshiaki Ishii^{1,2}(石井 利明)
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- 3P-42** **Expression of the huntingtin-associated protein 1-immunoreactive stigmoid body and its morphological relationship with androgen receptor in the spinal cord of adult rat**
Md Nabiul Islam, Ryutaro Fujinaga, Yukio Takeshita, Akie Yanai, Mir Rubayet Jahan, Gregory J Wroblewski, Koh Shinoda
Div. of Neuroanatomy, Dept. of Neuroscience, Yamaguchi University Grad. School of Medicine
- 3P-43** **TDP43 recognizes and transports G4-containing mRNAs into neurites for local translation**
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- 3P-44** **Cellular analysis of aberrant proteins derived from expanded GGGGCC repeat associated with ALS**
Mika Takitani(滝谷 美香)、Yoshihiro Kino(紀 嘉浩)、Yoji Yamamoto(山本 洋司)、Misaki Kimura(木村 美咲)、Junko Miyoshi(三好 潤子)、Jun-ichi Satoh(佐藤 準一)
Dept. Bioinformatics, Meiji Pharmaceutical Univ.(明治薬科大・薬・バイオインフォマティクス)
- 3P-45** **Adenovirus-induced neuronal TDP-43 and FUS aggregates demonstrated by time-lapse imaging**
Kazuhiko Watabe¹(渡部 和彦)、Tomohiro Ishii^{1,3}(石井 智裕)、Emiko Kawakami¹(河上江美子)、Hiroko Yanagisawa¹(柳澤比呂子)、Keiko Akiyama¹(秋山けい子)、Kentaro Endo²(遠藤堅太郎)、Hidemi Misawa³(三澤日出巳)
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- 3P-46** **Astrocyte-derived TGF- β 1 accelerates disease progression in ALS mice by regulating the neuroprotective inflammatory response of microglia and T cells**
Koji Yamanaka(山中 宏二)、Fumito Endo(遠藤 史人)、Okiru Komine(小峯 起)、Shijie Jin(金 世杰)、Seiji Watanabe(渡邊 征爾)
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iPS cells
iPS 細胞

- 3P-47** **Methylcobalamin Protects Motor Neuron Loss in Mutated Human SOD1 and ES Cell Mediated in vitro ALS Model**
Shunsuke Ito¹(伊藤 俊介)、Yukina Izumi¹(泉 幸奈)、Tetsuhiro Niidome^{2,3}(新留 徹広)、Yuichi Ono¹(尾野 雄一)
¹Regenerat. Med. KAN Res. Inst. Inc.(株式会社カン研究所 再生医療部)/²Concept Creation Strategy, KAN Res. Inst. Inc.(株式会社カン研究所 コンセプトクリエーション戦略部)/³KAN PCU, Eisai Co., Ltd.(株式会社エーザイ KAN-PCU)
- 3P-48** **Induced pluripotent stem cells-derived neurons of the patients with discordant schizophrenia**
Michihiro Toritsuka¹(鳥塚 通弘)、Manabu Makinodan¹(牧之段 学)、Hiroki Yoshino¹(芳野 浩樹)、Kaori Hamano-Iwasa¹(濱野-岩佐香里)、Kazuhiko Yamamuro¹(山室 和彦)、Wado Akamatsu²(赤松 和土)、Yohei Okada^{2,4}(岡田 洋平)、Sohei Kimoto¹(紀本 創兵)、Daisuke Ikawa¹(井川 大輔)、Kazumichi Hashimoto¹(橋本 和典)、Shin-ichi Fukami¹(深見 伸一)、Yasunori Yamashita¹(山下 泰徳)、Akira Imamura³(今村 明)、Koji Nishihara³(西原 浩司)、Hiroki Ozawa³(小澤 寛樹)、Yuji Okazaki³(岡崎 祐士)、Hideyuki Okano²(岡野 栄之)、Toshifumi Kishimoto¹(岸本 年史)
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- 3P-49** **Human iPS cells-derived neuron ReproNeuro for drug screening and 3D-culturing**
Mitsuru Inamura¹(稲村 充)、Harumi Kogami¹(小神 晴美)、Yuichi Okuda¹(奥田 雄一)、Syunsuke Yoshida¹(吉田 俊介)、Rina Akahira¹(赤平 莉奈)、Tomoaki Watanabe¹(渡辺 朝久)、Hiroyuki Yamazaki²(山崎 博幸)、Tomoaki Shirao²(白尾 智明)
¹ReproCELL(株式会社リプロセル)/²Gunma University Graduate School of Medicine Department of Neurobiology and Behavior All Right Reserved(群馬大学大学院 神経薬理学)
- 3P-50** **Astrocyte-secreted factors promote neurite length of human iPSCs-derived neurons in early developmental stage**
Yuki Arayama(荒山 裕貴)、Hiroyuki Yamazaki(山崎 博幸)、Yuta Ishizuka(石塚 佑太)、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)
- 3P-51** **Induction and characterization of synaptic transmission induced synchronized population bursts of the induced pluripotent stem cell-derived neurons**
Norimasa Miyamoto(宮本 憲優)、Kohei Sawada(澤田 光平)
Biopharmaceutical Core Function Unit(エーザイ株式会社 バイオフィーマシューティカル・アセスメント機能ユニット)
- 3P-52** **Relevance between the expression of nur family genes and the neurite outgrowth through the histone modification**
Ryosuke Yamazoe^{1,2}(山添 亮輔)、Yosiki Nishihata^{1,2}(西畑 慶紀)、Kazaho Tsumura^{1,2}(津村 風帆)、Erika Shimayama^{1,2}(島山恵利花)、Takuma Tomioka^{1,2}(富岡 拓磨)、Hiroki Maruoka^{2,3}(丸岡 弘規)、Koji Shimoke^{1,2}(下家 浩二)
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