

東北大学大学院生命科学研究科

自己評価報告書 付属資料

発表論文と著書 2018 年度

神経行動分野

研究論文 (2018 年 4 月～2019 年 3 月)

- 1) Data-driven analysis of motor activity implicates 5-HT2A neurons in backward locomotion of larval *Drosophila*.
[Scientific reports, 8 (1), (2018), 10307]
Park J, Kondo S, Tanimoto H, Kohsaka H, Nose A
- 2) Quantification of Aggregation and Associated Brain Areas in *Drosophila Melanogaster*. [IEEE International Conference on Pervasive Computing and Communications Workshops, (2019)]
Okuno T, Hashimoto K, Tanimoto H
- 3) Courtship behavior induced by appetitive olfactory memory. [Journal of Neurogenetics, 33 (2), (2019), 143-151]
Onodera Y, Ichikawa R, Terao K, Tanimoto H, Yamagata N
- 4) Neural Correlates of Odor Learning in the Presynaptic Microglomerular Circuitry in the Honeybee Mushroom Body Calyx. [eNeuro, 5 (3), (2018)]
Haenicke J, Yamagata N, Zwaka H, Nawrot M, Menzel R

脳機能遺伝分野

研究論文（2018 年 4 月～2019 年 3 月）

- 1) Antennae sense heat stress to inhibit mating and promote escaping in *Drosophila* females. [J Neurogenet., 32(4), (2018), 353-363]

Yusuke Miwa, Masayuki Koganezawa & Daisuke Yamamoto

脳機能発達分野

研究論文（2018 年 4 月～2019 年 3 月）

- 1) A mesocortical dopamine circuit enables the cultural transmission of vocal behaviour. [Nature, 563 (7729), (2018), 117]

Masashi Tanaka, Fangmiao Sun, Yulong Li, Richard Mooney

総説・解説記事（2018 年 4 月～2019 年 3 月）

- 1) 模倣学習を発動させる中脳から感覚運動野へのドーパミンの出力 [ライフサイエンス新着論文レビュー (2018.10.29), DOI: 10.7875/first.author.2018.106]

田中雅史, Richard Mooney

脳神経システム分野

研究論文（2018 年 4 月～2019 年 3 月）

- 1) Behavioral evidence for the use of functional categories during group reversal task performance in monkeys.
[Scientific Reports, 8 (2018), Article number 15878]
Hosokawa T, Honda Y, Yamada M, Romero MDC, Iijima T, Tsutsui KI
- 2) Intrinsic Projections of Layer Vb Neurons to Layers Va, III, and II in the Lateral and Medial Entorhinal Cortex of the Rat. [Cell Reports, 24 (1), (2018), 107-116]
Ohara S, Onodera M, Simonsen OW, Yoshino R, Hioki H, Iijima T, Tsutsui KI, Witter MP
- 3) Sex Differences in Risk Preference and c-Fos Expression in Paraventricular Thalamic Nucleus of Rats During Gambling Task. [Frontiers in Behavioral Neuroscience, (2018), 12:68. doi: 10.3389/fnbeh.2018.00068]
Ishii H, Onodera M, Ohara S, Tsutsui KI, Iijima T.
- 4) rTMSで探る内側前頭皮質の気分・情動制御メカニズム [臨床精神医学, 47 (8), (2018), 883-887]
中村晋也、筒井健一郎

膜輸送機構解析分野

研究論文 (2018 年 4 月～2019 年 3 月)

- 1) Comparable affinity of RabGDI α for GTP- and GDP-bound forms of Rab7 supports a four-state transition model for Rab7 subcellular localization. [bioRxiv, (2018), 287516]
Kanemitsu-Fujita, A., Morishita, S., Kjaer, S., Fukuda, M., Schiavo, G. and Nakamura, T.
- 2) Rab7 knockout unveils regulated autolysosome maturation induced by glutamine starvation. [J. Cell Sci., 131 (7), (2018), jcs215442]
Kuchitsu, Y., Homma, Y., Fujita, N. and Fukuda, M.
- 3) Molecular mechanisms of *Streptococcus pneumoniae*-targeted autophagy via pneumolysin, Golgi-resident Rab41, and Ned4-1 mediated K63-linked ubiquitination. [Cell. Microbiol., 20 (8), (2018), e12846]
Ogawa, M., Matsuda, R., Takada, N., Tomokiyo, M., Yamamoto, S., Shizukuishi, S., Yamaji, T., Yoshikawa, Y., Yoshida, M., Tanida, I., Koike, M., Murai, M., Morita, H., Takeyama, H., Ryo, A., Guan, J.-L., Yamamoto, M., Inoue, J. I., Yanagawa, T., Fukuda, M., Kawabe, H. and Ohnishi, M.
- 4) LRRK2 and its substrate Rab GTPases are sequentially targeted onto stressed lysosomes and maintain their homeostasis. [Proc. Natl. Acad. Sci. U.S.A., 115 (39), (2018), E9115-E9124]
Eguchi, T., Kuwahara, T., Sakurai, M., Komori, T., Fujimoto, T., Ito, G., Yoshimura, S.-I., Harada, A., Fukuda, M., Koike, M. and Iwatsubo, T.
- 5) Rab11a-Rab8a cascade regulate the formation of tunneling nanotubes through vesicle recycling. [J. Cell Sci., 131 (19), (2018), jcs215889]
Zhu, S., Bhat, S., Syan, S., Kuchitsu, Y., Fukuda, M. and Zurzolo, C.
- 6) Calpain-10 regulates actin dynamics by proteolysis of microtubule-associated protein 1B. [Sci. Rep., 8 (1), (2018), 16756]
Hatta, T., Iemura, S.I., Ohishi, T., Nakayama, H., Seimiya, H., Yasuda, T., Iizuka, K., Fukuda, M., Takeda, J., Natsume, T. and Horikawa, Y.
- 7) Rab5 activation on macropinosomes requires ALS2, and subsequent Rab5 inactivation through ALS2 detachment requires active Rab7. [FEBS Lett., 593 (2), (2019), 230-241]
Morishita, S., Wada, N., Fukuda, M. and Nakamura, T.
- 8) Cytoplasmic control of Rab family small GTPases through BAG6. [EMBO Rep., 20 (4), (2019), e46794]
Takahashi, T., Minami, S., Tsuchiya, Y., Tajima, K., Sakai, N., Suga, K., Hisanaga, S.-I., Ohbayashi, N., Fukuda, M. and Kawahara, H.
- 9) Rab10 regulates tubular endosome formation through KIF13A and KIF13B motors. [J. Cell Sci., 132 (5), (2019), jcs226977]
Etoh, K. and Fukuda, M.
- 10) Autophagosomal YKT6 is required for fusion with lysosomes independently of syntaxin 17. [The Journal of cell biology, 217 (8), (2018), 2633-2645]
Matsui T, Jiang P, Nakano S, Sakamaki Y, Yamamoto H, Mizushima N
- 11) YKT6 as a second SNARE protein of mammalian autophagosomes. [Autophagy, 15(1), (2018), 176-177]
Mizushima N, Matsui T, Yamamoto H

著書 (2018 年 4 月～2019 年 3 月)

- 1) Encyclopedia of Signaling Molecules 2nd Edition (Choi, S. ed.) (執筆担当部分) Rab27 pp. 4378-4385. [Springer, (2018)]
Oguchi, M. E. and Fukuda, M.

- 2) Encyclopedia of Signaling Molecules 2nd Edition (Choi, S. ed.) (執筆担当部分) Slp (synaptotagmin-like protein) pp. 5041-5047. [Springer, (2018)]

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- 1) Imaging FITC-dextran as a reporter for regulated exocytosis. [J. Vis. Exp., 136, (2018), e57936]
Klein, O., Roded, A., Hirschberg, K., Fukuda, M., Galli, S. J. and Sagi-Eisenberg, R.
- 2) SNARE dynamics during melanosome maturation. [Biochem. Soc. Trans., 46 (4), (2018), 911-917]
Ohbayashi, N. and Fukuda, M.
- 3) Revisiting Rab7 functions in mammalian autophagy: Rab7 knockout studies. [Cells, 7 (11), (2018), 215]
Kuchitsu, Y. and Fukuda, M.

発生ダイナミクス分野

研究論文 (2018 年 4 月～2019 年 3 月)

- 1) Biology and genome of a newly discovered sibling species of *Caenorhabditis elegans*. [Nature Communications, 9 (1), (2018)]
Kanzaki N, Tsai I.J, Tanaka R, Hunt V.L, Liu D, Tsuyama K, Maeda Y, Namai S, Kumagai R, Tracey A, Holroyd N, Doyle S.R, Woodruff G.C, Murase K, Kitazume H, Chai C, Akagi A, Panda O, Ke H.-M, Schroeder F.C, Wang J, Berriman M, Sternberg P.W, Sugimoto A, Kikuchi T.
- 2) Streptothricin acetyl transferase 2 (Sat2): A dominant selection marker for *Caenorhabditis elegans* genome editing. [PLoS ONE, 13 (5), (2018)]
Obinata H, Sugimoto A, Niwa S.
- 3) A homozygous loss-of-function *CAMK2A* mutation causes growth delay, frequent seizures and severe intellectual disability. [Elife, 7, (2018), e32451]
Chia PH, Zhong FL, Niwa S, Bonnard C, Utami KH, Zeng R, Lee H, Eskin A, Nelson SF, Xie WH, Al-Tawalbeh S, El-Khateeb M, Shboul M, Pouladi MA, Al-Raqad M, Reversade B.
- 4) KIF1B β mutations detected in hereditary neuropathy impair IGF1R transport and axon growth. [J Cell Biol., 217 (10), (2018), 3480-3496]
Xu F, Takahashi H, Tanaka Y, Ichinose S, Niwa S, Wicklund MP, Hirokawa N.

総説・解説記事 (2018 年 4 月～2019 年 3 月)

- 1) Physical parameters describing neuronal cargo transport by kinesin UNC-104. [Biophys Rev., 11 (3), (2019), 471-482]
Hayashi K, Matsumoto S, Miyamoto MG, Niwa S.

細胞小器官疾患学分野

研究論文 (2018 年 4 月～2019 年 3 月)

- 1) Rab23. [Encyclopedia of Signaling Molecules, (2018), 4362]
Marga Gual-Soler, Tomohiko Taguchi, Jennifer L. Stow, Carol Wicking
- 2) Development of a Series of Practical Fluorescent Chemical Tools To Measure pH Values in Living Samples.
[Journal of the American Chemical Society, 140 (18), (2018), 5925-5933]
Shodai Takahashi, Yu Kagami, Kenjiro Hanaoka, Takuya Terai, Toru Komatsu, Tasuku Ueno, Masanobu Uchiyama, Ikuko Koyama-Honda, Noboru Mizushima, Tomohiko Taguchi, Hiroyuki Arai, Tetsuo Nagano, Yasuteru Urano
- 3) The binding of TBK1 to STING requires exocytic membrane traffic from the ER. [Biochemical and Biophysical Research Communications, 503 (1), (2018), 138-145]
Emari Ogawa, Kojiro Mukai, Kota Saito, Hiroyuki Arai, Tomohiko Taguchi
- 4) Nitro-fatty acids are formed in response to virus infection and are potent inhibitors of STING palmitoylation and signaling. [Proceedings of the National Academy of Sciences of the United States of America, 115 (33), (2018), E7768-E7775]
Anne Louise Hansen, Gregory J. Buchan, Michael Rühl, Kojiro Mukai, Sonia R. Salvatore, Emari Ogawa, Sidsel D. Andersen, Marie B. Iversen, Anne L. Thielke, Camilla Gunderstofte, Mona Motwani, Charlotte T. Møller, Andreas S. Jakobsen, Katherine A. Fitzgerald, Jessica Roos, Rongtuan Lin, Thorsten J. Maier, Raphaela Goldbach-Mansky, Cathrine A. Miner, Wei Qian, Jonathan J. Miner, Rachel E. Rigby, Jan Rehwinkel, Martin R. Jakobsen, Hiroyuki Arai, Tomohiko Taguchi, Francisco J. Schopfer, David Olgarnier, Christian K. Holm
- 5) Cullin-3/KCTD10 E3 complex is essential for Rac1 activation through RhoB degradation in human epidermal growth factor receptor 2-positive breast cancer cells. [Cancer Science, 110 (2), (2019), 650-661]
Akari Murakami, Masashi Maekawa, Katsuhisa Kawai, Jun Nakayama, Nobukazu Araki, Kentaro Semba, Tomohiko Taguchi, Yoshiaki Kamei, Yasutsugu Takada, Shigeki Higashiyama
- 6) STING palmitoylation as a therapeutic target. [Cellular and Molecular Immunology, 16, (2019), 236-241]
Anne Louise Hansen, Kojiro Mukai, Francisco J. Schopfer, Tomohiko Taguchi, and Christian K. Holm
- 7) SNX9 determines the surface levels of integrin $\beta 1$ in vascular endothelial cells: Implication in poor prognosis of human colorectal cancers overexpressing SNX9. [Journal of Cellular Physiology, (2019)]
Kazufumi Tanigawa, Masashi Maekawa, Takeshi Kiyoi, Jun Nakayama, Riko Kitazawa, Sohei Kitazawa, Kentaro Semba, Tomohiko Taguchi, Satoshi Akita, Motohira Yoshida, Kei Ishimaru, Yuji Watanabe, Shigeki Higashiyama
- 8) Innate immunity signalling and membrane trafficking. [Current Opinion in Cell Biology, 59, (2019), 1-7]
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著書 (2018 年 4 月～2019 年 3 月)

- 1) 生体の科学 第 69 巻 第 3 号 (執筆担当部分) リサイクリングエンドソームを制御する分子機構. [医学書院, (2018)5 月]
田口友彦
- 2) 医学のあゆみ Vol.265 No.13. [医歯薬出版, (2018)6 月]
田口友彦、向井康治朗
- 3) 実験医学増刊号 36 巻10 号. [羊土社, (2018)6 月]
向井康治朗、新井洋由、田口友彦

- 4) 細胞 Vol.50 No.8. [ニューサイエンス社, (2018)7 月]
田口友彦、新井洋由
- 5) The Lung perspectives Vol.26 No.3. [メディカルレビュー社, (2018)8 月]
田口友彦、向井康治朗
- 6) 実験医学 36 巻16 号. [羊土社, (2018)10 月]
田口友彦
- 7) The Lung perspectives Vol.26 No.4. [メディカルレビュー社, (2018)12 月]
田口友彦、向井康治朗

総説・解説記事 (2018 年 4 月～2019 年 3 月)

- 1) Rab23. [Encyclopedia of Signaling Molecules, (2018), 4362]
Marga Gual-Soler, Tomohiko Taguchi, Jennifer L. Stow, Carol Wicking
- 2) 自然免疫応答のプラットフォーム Golgi 体における STING 活性化分子機構—STING のパルミトイル化が活性化に必要である. [医学のあゆみ, 265 (13), (2018), 1108 -1114]
田口友彦, 向井康治朗
- 3) リポクオリティの違いを生み出し識別する機構 5. 細胞内オルガネラ機能のリポクオリティ制御. [実験医学, 36 (10), (2018), 1652 -1658]
向井康治朗, 新井洋由, 田口友彦
- 4) オルガネラのバイオロジー最前線【脂質により特徴付けられるオルガネラ機能】. [月刊細胞, 50 (8), (2018), 428-431]
田口友彦, 向井康治朗, 新井洋由
- 5) 最新の医学論文を読みこなそう!第31 回 細胞内輸送と自然免疫応答 第 1 回:細胞質 DNA 応答分子 STING の活性化機構. [Lung Perspectives, 26 (3), (2018), 298 -302]
田口友彦, 向井康治朗
- 6) 最新の医学論文を読みこなそう!第32 回 細胞内輸送と自然免疫応答 第 2 回:Toll -like receptor シグナル. [Lung Perspectives, 26 (4), (2018), 411 - 415]
田口友彦, 向井康治朗

超回路脳機能分野

研究論文（2018 年 4 月～2019 年 3 月）

- 1) Targeted expression of step-function opsins in transgenic rats for optogenetic studies. [Scientific Reports, 8, (2018), 5435]
Igarashi H, Ikeda K, Onimaru H, Kaneko R, Koizumi K, Beppu K, Nishizawa K, Takahashi Y, Kato F, Matsui K, Kobayashi K, Yanagawa Y, Muramatsu S, Ishizuka T, Yawo H
- 2) Optogenetic astrocyte activation evokes BOLD fMRI response with oxygen consumption without neuronal activity modulation. [Glia, (2018), doi: 10.1002/glia.23454]
Takata N, Sugiura Y, Yoshida K, Koizumi M, Hiroshi N, Honda K, Yano R, Komaki Y, Matsui K, Suematsu M, Mimura M, Okano H, Tanaka KF
- 3) Functional emergence of a column-like architecture in layer 5 of mouse somatosensory cortex in vivo. [The journal of physiological sciences: JPS, (2018)]
Koizumi K, Inoue M, Chowdhury S, Bito H, Yamanaka A, Ishizuka T, Yawo H
- 4) Organelle Optogenetics: Direct Manipulation of Intracellular Ca^{2+} Dynamics by Light. [Frontiers in neuroscience, 12, (2018), 561] Asano T, Igarashi H, Ishizuka T, Yawo H
- 5) Red-Tuning of Channelrhodopsin Spectrum Using Long-Conjugated Retinal Analogues. [Biochemistry, 57 (38), (2018), 5544-5556]
Shen YC, Sasaki T, Matsuyama T, Yamashita T, Shichida Y, Okitsu T, Yamano Y, Wada A, Ishizuka T, Yawo H, Imamoto Y
- 6) Optogenetic study of the response interaction among multi-afferent inputs in the barrel cortex of rats. [Scientific reports, 9 (1), (2019), 3917]
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著書（2018 年 4 月～2019 年 3 月）

- 1) 基礎心理学実験法ハンドブック（執筆担当部分）脳機能の組織学的解析 6.14.1: 478-479. [朝倉書店, (2018)6 月]
松井 広

総説・解説記事（2018 年 4 月～2019 年 3 月）

- 1) 睡眠の光操作とグリア細胞機能の役割. [Clinical Neuroscience, 36, (2018), 925-928]
常松 友美、森澤 陽介、松井 広
- 2) 脳内に「心のありか」？ [読売新聞 2019 年02 月27 日 朝刊, (2019)]
松井 広

分化再生制御分野（協力講座）

研究論文（2018 年 4 月～2019 年 3 月）

- 1) Derivation of pluripotent stem cells from nascent undifferentiated teratoma. [Developmental Biology, 446, (2019), 43-55]
An, Y., Sekinaka, T., Tando, Y., Okamura, D., Tanaka, K., Ito-Matsuoka, Y., Takehara, A., Yaegashi, N., Matsui, Y.

腫瘍生物学分野（協力講座）

研究論文（2018 年 4 月～2019 年 3 月）

- 1) Evaluation of site-specific homologous recombination activity of BRCA1 by direct quantitation of gene editing efficiency. [Scientific Reports, 9, (2019), 1644]
Yoshino Y, Endo S, Chen Z, Qi H, Watanabe G, Chiba N.

遺伝子導入分野（協力講座）

研究論文（2018 年 4 月～2019 年 3 月）

- 1) Gp49B is a pathogenic marker for auto-antibody-producing plasma cells in lupus-prone BXSB/Yaa mice.
[International Immunology, 31(6), (2018), 397–406]
Wong YL, Su MT, Sugahara-Tobinai A, Itoi S, Kezuka D, Endo S, Inui M, Takai T.

植物発生分野

研究論文 (2018 年 4 月～2019 年 3 月)

- 1) BLADE-ON-PETIOLE genes temporally and developmentally regulate the sheath to blade ratio of rice leaves. [Nat Commun., 10, (2019), 619]
Toriba T, Tokunaga H, Shiga T, Nie F, Naramoto S, Honda E, Tanaka K, Taji T, Itoh JI and Kyozyuka J.
- 2) Developmental analysis of the early steps in strigolactone-mediated axillary bud dormancy in rice. [Plant J., 97 (2019), 1006]
Luo L, Takahashi M, Kameoka H, Qin R, Shiga T, Kanno Y, Seo M, Itoh M, Xu G, Kyozyuka J.
- 3) ARF GTPase machinery at the plasma membrane regulates auxin transport-mediated plant growth. [Plant Biotechnology, (2018)]
Satoshi Naramoto and Junko Kyozyuka
- 4) Spatial regulation of strigolactone function. [J. Exp. Bot.69, (2018), 2255]
Kameoka H and Kyozyuka J.
- 5) Strigolactone Biosynthesis Genes of Rice are Required for the Punctual Entry of Arbuscular Mycorrhizal Fungi into the Roots. [Plant Cell Physiol, 59 (2018), 544]
Kobae Y, Kameoka H, Sugimura Y, Saito K, Ohtomo R, Fujiwara T, Kyozyuka J.
- 6) Strigolactone perception and deactivation by a hydrolase receptor, DWARF14. [Nat Commun., 10, (2019), 191]
Seto Y, Yasui R, Kameoka H, Tamiru M, Cao M, Terauchi R, Sakurada A, Hirano R, Kisugi T, Hanada A, Umehara M, Seo E, Akiyama K, Burke J, Takeda-Kamiya N, Li W, Hirano Y, Hakoshima T, Mashiguchi K, Noel J, Kyozyuka J, Yamaguchi S.
- 7) Comprehensive panicle phenotyping reveals that qSn7/FZP influences higher-order branching. [Sci Rep. 21, (2018), 12511]
Fujishiro Y, Agata A, Ota S, Ishihara R, Takeda Y, Kunishima T, Ikeda M, Kyozyuka J, Hobo T, Kitano H.
- 8) Observation of Phototropic Responses in the Liverwort *Marchantia polymorpha*. In: Phototropism. Methods in Molecular Biology. [Humana Press, New York, NY, 1924, 53 - 61, (2019)]
Aino Komatsu, Ryuichi Nishihama, Takayuki Kohchi

組織形成分野

研究論文 (2018 年 4 月～2019 年 3 月)

- 1) Competition for Space Is Controlled by Apoptosis-Induced Change of Local Epithelial Topology. [Curr Biol., 28 (13), (2018), 2115-2128 doi: 10.1016/j.cub.2018.05.029.]
Tsuboi A, Ohsawa S, Umetsu D, Sando Y, Kuranaga E, Igaki T, Fujimoto K.
- 2) Mechanisms of unusual collective cell movement lacking a free front edge in Drosophila. [Curr Opin Genet Dev., 51, (2018), 46-51 doi: 10.1016/j.gde.2018.06.012.]
Uechi H, Kuranaga E.
- 3) Apical Junctional Fluctuations Lead to Cell Flow while Maintaining Epithelial Integrity. [Biophys J., 116 (6), (2018), 1159-1170 doi: 10.1016/j.bpj.2019.01.039.]
Okuda S, Kuranaga E, Sato K.
- 4) Mathematical Modeling of Tissue Folding and Asymmetric Tissue Flow during Epithelial Morphogenesis [Symmetry, 11 (1), (2019), doi: 10.3390/sym11010113]
Tetsuya Hiraiwa, Fu-Lai Wen, Tatsuo Shibata and Erina Kuranaga,
- 5) Mitotic spindle orientation in epithelial homeostasis and plasticity. [The Journal of Biochemistry, (2018)]
中嶋 悠一郎

環境応答分野

研究論文 (2018 年 4 月～2019 年 3 月)

- 1) Root-tip-mediated inhibition of hydrotropism is accompanied with the suppression of asymmetric expression of auxin-inducible genes in response to moisture gradients in cucumber roots. [PLOS ONE, 13 (1), (2018), e0189827]
Fujii N., Miyabayashi S., Sugita T., Kobayashi A., Yamazaki C., Miyazawa Y., Kamada M., Kasahara H., Osada I., Shimazu T., Fusejima Y., Higashibata A., Yamazaki T., Ishioka N., Takahashi H.
- 2) Circumnutational movement in rice coleoptiles involves the gravitropic response: analysis of an agravitropic mutant and space-grown seedlings. [Physiologia Plantarum, (2018)]
Kobayashi A., Kim H.-J., Tomita Y., Miyazawa Y., Fujii N., Yano S., Yamazaki C., Kamada M., Kasahara H., Miyabayashi S., Shimazu T., Fusejima Y., Takahashi H.
- 3) Plasma membrane-associated Ca^{2+} -binding protein PCaP1 is involved in root hydrotropism of *Arabidopsis thaliana*. [Plant and Cell Physiology, (2019)]
Tanaka-Takada N., Kobayashi A., Takahashi H., Kamiya T., Kinoshita T., Maeshima M.

総説・解説記事 (2018 年 4 月～2019 年 3 月)

- 1) 植物の成長を支配する重力応答と宇宙実験. [生体の科学, 69 (2), (2018), 162-167]
高橋 秀幸

動物発生分野

研究論文 (2018 年 4 月～2019 年 3 月)

- 1) Skin regeneration of amphibians: A novel model for skin regeneration as adults. [Development, growth & differentiation, 60 (6), (2018), 316-325]
Yokoyama H, Kudo N, Todate M, Shimada Y, Suzuki M, Tamura K
- 2) Flight feather development: its early specialization during embryogenesis. [Zoological letters, 4, (2018), 2]
Kondo M, Sekine T, Miyakoshi T, Kitajima K, Egawa S, Seki R, Abe G, Tamura K
- 3) Morphogenetic mechanism of the acquisition of the dinosaur-type acetabulum. [Royal Society Open Science, 5 (10), (2018), 180604]
Egawa S, Saito D, Abe G, Tamura K
- 4) The Heart Tube Forms and Elongates Through Dynamic Cell Rearrangement Coordinated with Foregut Extension. [Development, 145, (2018), dev152488]
Kidokoro H, Yonei-Tamura S, Tamura K, Schoenwolf GC, Saijoh Y.
- 5) An alternative evolutionary pathway for the twin-tail goldfish via szl gene mutation. [Journal of experimental zoology. Part B, Molecular and developmental evolution, 330 (4), (2018), 234-241]
Abe G, Lee SH, Li IJ, Ota KG
- 6) A novel allele of the goldfish chdB gene: Functional evaluation and evolutionary considerations. [Journal of experimental zoology. Part B, Molecular and developmental evolution, 330 (6-7), (2018), 372-383]
Abe G, Li IJ, Lee SH, Ota KG

植物細胞壁分野

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分子情報化学分野

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微生物遺伝分野

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- 1) 汚染物質分解コンソーシアムにおけるキープレイヤーとオーディエンス. [Journal of Environmental Biotechnology, 18 (1), (2018), 15-20]
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- 1) Divergent evolution of rice blast resistance Pi54 locus in the genus *Oryza*. [Rice 11, (2018), 63]
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- 3) Regulation of Chlorophagy during Photoinhibition and Senescence: Lessons from Mitophagy. [Plant & cell physiology]
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中村咲耶、泉正範

進化ゲノミクス分野

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- 1) Optimization of single strand DNA incorporation reaction by Moloney murine leukemia virus reverse transcriptase. [DNA Research, (2018)]
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- 2) Establishment of plasmid vector and allelic exchange mutagenesis systems in a mycobacterial strain that is able to degrade polycyclic aromatic hydrocarbon. [Biosci Biotechnol Biochem, 82 (7), (2018), 1169-1171]
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- 4) Physiological and transcriptome changes induced by *Pseudomonas putida* acquisition of an integrative and conjugative element. [Scientific Reports, 8, (2018), 5550]
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- 1) Mobile genetic elements involved in the evolution of bacteria that degrade recalcitrant xenobiotic compounds *In* DNA Traffic in the Environment（執筆担当部分）Chapter 9. [Springer, (2019) 2 月]
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- 1) 汚染物質分解コンソーシアムにおけるキープレイヤーとオーディエンス. [環境バイオテクノロジー学会誌, 1, (2018), 15-20]
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- 3) 土壌細菌叢のノトバイオロジー. [アグリバイオ, 2, (2018), 107-109]
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