

## 先端バイオイメージング支援プラットフォーム (JP16H06280)

## Publication LIST

1. Kakeda S., Watanabe K., Katsuki A., Sugimoto K., Ueda I., Igata N., Kishi T., Iwata N., Abe O., Yoshimura R., Korogi Y. Genetic effects on white matter integrity in drug-naive patients with major depressive disorder: a diffusion tensor imaging study of 17 genetic loci associated with depressive symptoms. *Neuropsychiatric Disease and Treatment* 15, 375-83 (2019) DOI:10.2147/ndt.s190268
2. Andica C., Hagiwara A., Hori M., Kamagata K., Koshino S., Maekawa T., Suzuki M., Fujiwara H., Ikeno M., Shimizu T., Suzuki H., Sugano H., Arai H., Aoki S. Review of synthetic MRI in pediatric brains: Basic principle of MR quantification, its features, clinical applications, and limitations. *Journal of Neuroradiology* 46, 268-75 (2019) DOI:10.1016/j.neurad.2019.02.005
3. Griesbeck S., Ferger M., Czernetz C., Wang C., Bertermann R., Friedrich A., Haehnel M., Sieh D., Taki M., Yamaguchi S., Marder T.B. Optimization of Aqueous Stability versus  $\pi$ -Conjugation in Tetracationic Bis(triarylborane) Chromophores: Applications in Live-Cell Fluorescence Imaging. *Chemistry - A European Journal* 25, 7679-88 (2019) DOI:10.1002/chem.201900723
4. Osawa T., Kotani T., Kawaoka T., Hirata E., Suzuki K., Nakatogawa H., Ohsumi Y., Noda N.N. Atg2 mediates direct lipid transfer between membranes for autophagosome formation. *Nature Structural and Molecular Biology* 26, 281-8 (2019) DOI:10.1038/s41594-019-0203-4
5. Nozoye T., von Wiren N., Sato Y., Higashiyama T., Nakanishi H., Nishizawa N.K. Characterization of the Nicotianamine Exporter ENA1 in Rice. *Frontiers in Plant Science* 10, 17 (2019) DOI:10.3389/fpls.2019.00502
6. Murata K., Hirata A., Ohta K., Enaida H., Nakamura K. Morphometric analysis in mouse scleral fibroblasts using focused ion beam/scanning electron microscopy. *Scientific Reports* 9, 8 (2019) DOI:10.1038/s41598-019-42758-x
7. Goto A., Otomo K., Nemotou T. Real-Time Polarization-Resolved Imaging of Living Tissues Based on Two-Photon Excitation Spinning-Disk Confocal Microscopy. *Frontiers in Physics* 7, 9 (2019) DOI:10.3389/fphy.2019.00056
8. Muta Y., Matsuda M., Imajo M. Divergent Dynamics and Functions of ERK MAP Kinase Signaling in Development, Homeostasis and Cancer: Lessons from Fluorescent Bioimaging. *Cancers* 11, 11 (2019) DOI:10.3390/cancers11040513
9. Hara S., Hori M., Ueda R., Hayashi S., Inaji M., Tanaka Y., Maehara T., Ishii K., Aoki S., Nariai T. Unraveling Specific Brain Microstructural Damage in Moyamoya Disease Using Diffusion Magnetic Resonance Imaging and Positron Emission Tomography. *Journal of Stroke & Cerebrovascular Diseases* 28, 1113-25 (2019) DOI:10.1016/j.jstrokecerebrovasdis.2018.12.038
10. Chougar L., Hagiwara A., Takano N., Andica C., Cohen-Adad J., Warntjes M., Maekawa T., Hori M., Koshino S., Nakazawa M., Abe O., Aoki S. Signal Intensity within Cerebral Venous Sinuses on Synthetic MRI. *Magnetic Resonance in Medical Sciences* (2019) DOI:10.2463/mrms.mp.2018-0144
11. Shimahara Y., Sugawara K., Kojo K.H., Kawai H., Yoshida Y., Hasezawa S., Kutsuna N. IMACEL: A cloud-based bioimage analysis platform for morphological analysis and image classification. *Plos One* 14, 11 (2019) DOI:10.1371/journal.pone.0212619

12. Sone E., Noshiro D., Ikebuchi Y., Nakagawa M., Khan M., Tamura Y., Ikeda M., Oki M., Murali R., Fujimori T., Yoda T., Honma M., Suzuki H., Ando T., Aoki K. The induction of RANKL molecule clustering could stimulate early osteoblast differentiation. *Biochemical and Biophysical Research Communications* 509, 435-40 (2019)  
DOI:10.1016/j.bbrc.2018.12.093
13. Kimata Y., Kato T., Higaki T., Kurihara D., Yamada T., Segami S., Morita M.T., Maeshima M., Hasezawa S., Higashiyama T., Tasaka M., Ueda M. Polar vacuolar distribution is essential for accurate asymmetric division of Arabidopsis zygotes. *Proceedings of the National Academy of Sciences of the United States of America* 116, 2338-43 (2019)  
DOI:10.1073/pnas.1814160116
14. Kiyonari H., Kaneko M., Abe T., Shioi G., Aizawa S., Furuta Y., Fujimori T. Dynamic organelle localization and cytoskeletal reorganization during preimplantation mouse embryo development revealed by live imaging of genetically encoded fluorescent fusion proteins. *Genesis* 57, 9 (2019) DOI:10.1002/dvg.23277
15. Hagiwara A., Otsuka Y., Hori M., Tachibana Y., Yokoyama K., Fujita S., Andica C., Kamagata K., Irie R., Koshino S., Maekawa T., Chougar L., Wada A., Takemura M.Y., Hattori N., Aoki S. Improving the Quality of Synthetic FLAIR Images with Deep Learning Using a Conditional Generative Adversarial Network for Pixel-by-Pixel Image Translation. *American Journal of Neuroradiology* 40, 224-30 (2019) DOI:10.3174/ajnr.A5927
16. Maekawa T., Hagiwara A., Hori M., Andica C., Haruyama T., Kuramochi M., Nakazawa M., Koshino S., Irie R., Kamagata K., Wada A., Abe O., Aoki S. Effect of Gadolinium on the Estimation of Myelin and Brain Tissue Volumes Based on Quantitative Synthetic MRI. *American Journal of Neuroradiology* 40, 231-7 (2019) DOI:10.3174/ajnr.A5921
17. Kamemizu C., Fujimori T. Distinct dormancy progression depending on embryonic regions during mouse embryonic diapause. *Biology of Reproduction* (2019)  
DOI:10.1093/biolre/ioz017
18. Fujita S., Nakazawa M., Hagiwara A., Ueda R., Horita M., Maekawa T., Irie R., Andica C., Kunishima Kumamaru K., Hori M., Aoki S. Estimation of Gadolinium-based Contrast Agent Concentration Using Quantitative Synthetic MRI and Its Application to Brain Metastases: A Feasibility Study. *Magnetic Resonance in Medical Sciences* (2019)  
DOI:10.2463/mrms.mp.2018-0119
19. Soltysik K., Ohsaki Y., Tatematsu T., Cheng J.L., Fujimoto T. Nuclear lipid droplets derive from a lipoprotein precursor and regulate phosphatidylcholine synthesis. *Nature Communications* 10, 12 (2019) DOI:10.1038/s41467-019-08411-x
20. Okada N., Yahata N., Koshiyama D., Morita K., Sawada K., Kanata S., Fujikawa S., Sugimoto N., Toriyama R., Masaoka M., Koike S., Araki T., Kano Y., Endo K., Yamasaki S., Ando S., Nishida A., Hiraiwa-Hasegawa M., Edden R.A.E., Barker P.B., Sawa A., Kasai K. Neurometabolic and functional connectivity basis of prosocial behavior in early adolescence. *Scientific Reports* 9, 14 (2019) DOI:10.1038/s41598-018-38355-z
21. Suzuki A.Z., Sekine R., Takeda S., Aikawa R., Shiraishi Y., Hamaguchi T., Okuno H., Tamamura H., Furuta T. A clickable caging group as a new platform for modular caged compounds with improved photochemical properties. *Chemical Communications* 55, 451-4 (2019) DOI:10.1039/c8cc07981a
22. Hagiwara A., Hori M., Cohen-Adad J., Nakazawa M., Suzuki Y., Kasahara A., Horita M., Haruyama T., Andica C., Maekawa T., Kamagata K., Kumamaru K.K., Abe O., Aoki S. Linearity, Bias, Intrascanner Repeatability, and Interscanner Reproducibility of Quantitative Multidynamic Multiecho Sequence for Rapid Simultaneous Relaxometry at 3 T A Validation Study With a Standardized Phantom and Healthy Controls. *Investigative Radiology* 54, 39-47 (2019) DOI:10.1097/rli.0000000000000510

23. Li J.L., Suda K., Ueoka I., Tanaka R., Yoshida H., Okada Y., Okamoto Y., Hiramatsu Y., Takashima H., Yamaguchi M. Neuron-specific knockdown of *Drosophila* HADHB induces a shortened lifespan, deficient locomotive ability, abnormal motor neuron terminal morphology and learning disability. *Experimental Cell Research* 379, 150-8 (2019) DOI:10.1016/j.yexcr.2019.03.040
24. Nakamura M., Takahashi T., Takayanagi Y., Sasabayashi D., Katagiri N., Sakuma A., Obara C., Koike S., Yamasue H., Furuichi A., Kido M., Nishikawa Y., Noguchi K., Matsumoto K., Mizuno M., Kasai K., Suzuki M. Surface morphology of the orbitofrontal cortex in individuals at risk of psychosis: a multicenter study. *European Archives of Psychiatry and Clinical Neuroscience* 269, 397-406 (2019) DOI:10.1007/s00406-018-0890-6
25. Takaki T., Ohno N., Saitoh S., Nagai M., Joh K. Podocyte penetration of the glomerular basement membrane to contact on the mesangial cell at the lesion of mesangial interposition in lupus nephritis: a three-dimensional analysis by serial block-face scanning electron microscopy. *Clinical and Experimental Nephrology* 23, 773-81 (2019) DOI:10.1007/s10157-019-01701-0
26. Fujioka T., Kaneko N., Sawamoto K. Blood vessels as a scaffold for neuronal migration. *Neurochemistry International* 126, 69-73 (2019) DOI:10.1016/j.neuint.2019.03.001
27. Katagiri N., Pantelis C., Nemoto T., Tsujino N., Saito J., Hori M., Yamaguchi T., Funatogawa T., Mizuno M. Longitudinal changes in striatum and sub-threshold positive symptoms in individuals with an 'at risk mental state' (ARMS). *Psychiatry Research-Neuroimaging* 285, 25-30 (2019) DOI:10.1016/j.psychresns.2019.01.008
28. Kubota-Kawai H., Burton-Smith R.N., Tokutsu R., Song C.H., Akimoto S., Yokono M., Ueno Y., Kim E., Watanabe A., Murata K., Minagawa J. Ten antenna proteins are associated with the core in the supramolecular organization of the photosystem I supercomplex in *Chlamydomonas reinhardtii*. *Journal of Biological Chemistry* 294, 4304-14 (2019) DOI:10.1074/jbc.RA118.006536
29. Shimahara Y., Kutsuna N., Hasezawa S., Kojo K.H. Quantitative Evaluation of Stomule Frequency at Hourly Intervals in Arabidopsis Stomatal Guard Cell Chloroplasts. *Cytologia* 84, 31-5 (2019) DOI:10.1508/cytologia.84.31
30. Yamamoto K., Otomo K., Nemoto T., Ishihara S., Haga H., Nagasaki A., Murakami Y., Takahashi M. Differential contributions of nonmuscle myosin IIA and IIB to cytokinesis in human immortalized fibroblasts. *Experimental Cell Research* 376, 67-76 (2019) DOI:10.1016/j.yexcr.2019.01.020
31. Andica C., Hagiwara A., Kamagata K., Yokoyama K., Shimoji K., Saito A., Takenaka Y., Nakazawa M., Hori M., Cohen-Adad J., Takemura M.Y., Hattori N., Aoki S. Gray Matter Alterations in Early and Late Relapsing-Remitting Multiple Sclerosis Evaluated with Synthetic Quantitative Magnetic Resonance Imaging. *Scientific Reports* 9, 10 (2019) DOI:10.1038/s41598-019-44615-3
32. Griesbeck S., Michail E., Wang C.G., Ogasawara H., Lorenzen S., Gerstner L., Zang T., Nitsch J., Sato Y., Bertermann R., Taki M., Lambert C., Yamaguchi S., Marder T.B. Tuning the pi-bridge of quadrupolar triarylborane chromophores for one- and two-photon excited fluorescence imaging of lysosomes in live cells. *Chemical Science* 10, 5405-22 (2019) DOI:10.1039/c9sc00793h
33. Inagaki S., Agetsuma M., Ohara S., Iijima T., Yokota H., Wazawa T., Arai Y., Nagai T. Imaging local brain activity of multiple freely moving mice sharing the same environment. *Scientific Reports* 9, 9 (2019) DOI:10.1038/s41598-019-43897-x

34. Sekiguchi T., Satoh T., Kurimoto E., Song C.H., Kozai T., Watanabe H., Ishii K., Yagi H., Yanaka S., Uchiyama S., Uchihashi T., Murata K., Kato K. Mutational and Combinatorial Control of Self-Assembling and Disassembling of Human Proteasome Subunits. *International Journal of Molecular Sciences* 20, 14 (2019) DOI:10.3390/ijms20092308
35. Okada N., Ando S., Sanada M., Hirata-Mogi S., Iijima Y., Sugiyama H., Shirakawa T., Yamagishi M., Kanehara A., Morita M., Yagi T., Hayashi N., Koshiyama D., Morita K., Sawada K., Ikegame T., Sugimoto N., Toriyama R., Masaoka M., Fujikawa S., Kanata S., Tada M., Kiriwara K., Yahata N., Araki T., Jinde S., Kano Y., Koike S., Endo K., Yamasaki S., Nishida A., Hiraiwa-Hasegawa M., Bundo M., Iwamoto K., Tanaka S.C., Kasai K. Population-neuroscience study of the Tokyo TEEN Cohort (pn-TTC): Cohort longitudinal study to explore the neurobiological substrates of adolescent psychological and behavioral development. *Psychiatry and Clinical Neurosciences* 73, 231-42 (2019) DOI:10.1111/pcn.12814
36. Tanaka H., Okazaki T., Aoyama S., Yokota M., Koike M., Okada Y., Fujiki Y., Gotoh Y. Peroxisomes control mitochondrial dynamics and the mitochondrion-dependent pathway of apoptosis. *J Cell Sci* 132(2019) DOI:10.1242/jcs.224766
37. Imanishi A., Murata T., Sato M., Hotta K., Knayoshi I., Matsuda M., Terai K. A Novel Morphological Marker for the Analysis of Molecular Activities at the Single-cell Level. *Cell Structure and Function* 43, 129-40 (2018) DOI:10.1247/csf.18013
38. Goto M., Abe O., Aoki S., Kamagata K., Hori M., Miyati T., Gomi T., Takeda T. Combining Segmented Grey and White Matter Images Improves Voxel-based Morphometry for the Case of Dilated Lateral Ventricles. *Magnetic Resonance in Medical Sciences* 17, 293-300 (2018) DOI:10.2463/mrms.mp.2017-0127
39. Irie R., Kamagata K., Kerever A., Ueda R., Yokosawa S., Otake Y., Ochi H., Yoshizawa H., Hayashi A., Tagawa K., Okazawa H., Takahashi K., Sato K., Hori M., Arikawa-Hirasawa E., Aoki S. The Relationship between Neurite Density Measured with Confocal Microscopy in a Cleared Mouse Brain and Metrics Obtained from Diffusion Tensor and Diffusion Kurtosis Imaging. *Magnetic Resonance in Medical Sciences* 17, 138-44 (2018) DOI:10.2463/mrms.mp.2017-0031
40. Hashimoto N., Ito Y.M., Okada N., Yamamori H., Yasuda Y., Fujimoto M., Kudo N., Takemura A., Son S., Narita H., Yamamoto M., Tha K.K., Katsuki A., Ohi K., Yamashita F., Koike S., Takahashi T., Nemoto K., Fukunaga M., Onitsuka T., Watanabe Y., Yamasue H., Suzuki M., Kasai K., Kusumi I., Hashimoto R., Cocoro. The effect of duration of illness and antipsychotics on subcortical volumes in schizophrenia: Analysis of 778 subjects. *Neuroimage-Clinical* 17, 563-9 (2018) DOI:10.1016/j.nicl.2017.11.004
41. Hirata A., Hayashi K., Murata K., Nakamura K.I. Removal of choroidal neovascular membrane in a case of macular hole after anti-VEGF therapy for age-related macular degeneration. *American Journal of Ophthalmology Case Reports* 9, 14-7 (2018) DOI:10.1016/j.ajoc.2017.12.003
42. Katano T., Takao K., Abe M., Yamazaki M., Watanabe M., Miyakawa T., Sakimura K., Ito S. Distribution of Caskin1 protein and phenotypic characterization of its knockout mice using a comprehensive behavioral test battery. *Molecular Brain* 11(2018) DOI:10.1186/s13041-018-0407-2
43. Konishi Y., Terai K., Furuta Y., Kiyonari H., Abe T., Ueda Y., Kinashi T., Hamazaki Y., Takaori-Kondo A., Matsuda M. Live-Cell FRET Imaging Reveals a Role of Extracellular Signal-Regulated Kinase Activity Dynamics in Thymocyte Motility. *Food Science and Human Wellness* 10, 98-113 (2018) DOI:10.1016/j.isci.2018.11.025

44. Ogawa C., Kidokoro H., Fukasawa T., Yamamoto H., Ishihara N., Ito Y., Sakaguchi Y., Okai Y., Ohno A., Nakata T., Azuma Y., Hattori A., Kubota T., Tsuji T., Hirakawa A., Kawai H., Natsume J. Cytotoxic edema at onset in West syndrome of unknown etiology: A longitudinal diffusion tensor imaging study. *Epilepsia* 59, 440-8 (2018) DOI:10.1111/epi.13988
45. Okada N., Yahata N., Koshiyama D., Morita K., Sawada K., Kanata S., Fujikawa S., Sugimoto N., Toriyama R., Masaoka M., Koike S., Araki T., Kano Y., Endo K., Yamasaki S., Ando S., Nishida A., Hiraiwa-Hasegawa M., Kasai K. Abnormal asymmetries in subcortical brain volume in early adolescents with subclinical psychotic experiences. *Translational Psychiatry* 8(2018) DOI:10.1038/s41398-018-0312-6
46. Kuragano M., Uyeda T.Q.P., Kamijo K., Murakami Y., Takahashi M. Different contributions of nonmuscle myosin IIA and IIB to the organization of stress fiber subtypes in fibroblasts. *Molecular Biology of the Cell* 29, 911-22 (2018) DOI:10.1091/mbc.E17-04-0215
47. Oti T., Takanami K., Ito S., Ueda T., Matsuda K.I., Kawata M., Soh J., Ukimura O., Sakamoto T., Sakamoto H. Effects of Sex Steroids on the Spinal Gastrin-Releasing Peptide System Controlling Male Sexual Function in Rats. *Endocrinology* 159, 1886-96 (2018) DOI:10.1210/en.2018-00043
48. Imamura T., Saitou T., Kawakami R. In vivo optical imaging of cancer cell function and tumor microenvironment. *Cancer Science* 109, 912-8 (2018) DOI:10.1111/cas.13544
49. Watanabe T., Imamura T., Hiasa Y. Roles of protein kinase R in cancer: Potential as a therapeutic target. *Cancer Science* 109, 919-25 (2018) DOI:10.1111/cas.13551
50. Grzybowski M., Taki M., Senda K., Sato Y., Ariyoshi T., Okada Y., Kawakami R., Imamura T., Yamaguchi S. A Highly Photostable Near-Infrared Labeling Agent Based on a Phosphorhodamine for Long-Term and Deep Imaging. *Angewandte Chemie-International Edition* 57, 10137-41 (2018) DOI:10.1002/anie.201804731
51. Ishikawa T., Eto K., Kim S.K., Wake H., Takeda I., Horiuchi H., Moorhouse A.J., Ishibashi H., Nabekura J. Cortical astrocytes prime the induction of spine plasticity and mirror image pain. *Pain* 159, 1592-606 (2018) DOI:10.1097/j.pain.0000000000001248
52. Tsukamoto M., Chiba K., Sobu Y., Shiraki Y., Okumura Y., Hata S., Kitamura A., Nakaya T., Uchida S., Kinjo M., Taru H., Suzuki T. The cytoplasmic region of the amyloid beta-protein precursor (APP) is necessary and sufficient for the enhanced fast velocity of APP transport by kinesin-1. *Febs Letters* 592, 2716-24 (2018) DOI:10.1002/1873-3468.13204
53. Todokoro A., Tanaka S.C., Kawakubo Y., Yahata N., Ishii-Takahashi A., Nishimura Y., Kano Y., Ohtake F., Kasai K. Deficient neural activity subserving decision-making during reward waiting time in intertemporal choice in adult attention-deficit hyperactivity disorder. *Psychiatry and Clinical Neurosciences* 72, 580-90 (2018) DOI:10.1111/pcn.12668
54. Sugimoto K., Kakeda S., Watanabe K., Katsuki A., Ueda I., Igata N., Igata R., Abe O., Yoshimura R., Korogi Y. Relationship between white matter integrity and serum inflammatory cytokine levels in drug-naive patients with major depressive disorder: diffusion tensor imaging study using tract-based spatial statistics. *Translational Psychiatry* 8, 8 (2018) DOI:10.1038/s41398-018-0174-y
55. Saeki A., Sugiyama M., Hasebe A., Suzuki T., Shibata K. Activation of NLRP3 inflammasome in macrophages by mycoplasmal lipoproteins and lipopeptides. *Molecular Oral Microbiology* 33, 300-11 (2018) DOI:10.1111/omi.12225
56. Saitou T., Takanezawa S., Ninomiya H., Watanabe T., Yamamoto S., Hiasa Y., Imamura T. Tissue Intrinsic Fluorescence Spectra-Based Digital Pathology of Liver Fibrosis by Marker-Controlled Segmentation. *Frontiers in Medicine* 5, 14 (2018) DOI:10.3389/fmed.2018.00350

57. Kaneko N., Herranz-Perez V., Otsuka T., Sano H., Ohno N., Omata T., Nguyen H.B., Thai T.Q., Nambu A., Kawaguchi Y., Garcia-Verdugo J.M., Sawamoto K. New neurons use Slit-Robo signaling to migrate through the glial meshwork and approach a lesion for functional regeneration. *Science Advances* 4, 14 (2018) DOI:10.1126/sciadv.aav0618
58. Hayashi Y., Jinnou H., Sawamoto K., Hitoshi S. Adult neurogenesis and its role in brain injury and psychiatric diseases. *Journal of Neurochemistry* 147, 584-94 (2018) DOI:10.1111/jnc.14557
59. Ishiyama S., Shibata Y., Ayuzawa S., Matsushita A., Matsumura A. Clinical Effect of C2 Peripheral Nerve Field Stimulation Using Electroacupuncture for Primary Headache. *Neuromodulation* 21, 793-6 (2018) DOI:10.1111/ner.12772
60. Takahashi T., Mori T., Ueda K., Yamada P., Nagahara S., Higashiyama T., Sawada H., Igawa T. The male gamete membrane protein DMP9/DAU2 is required for double fertilization in flowering plants. *Development* 145, 7 (2018) DOI:10.1242/dev.170076
61. Koshiyama D., Fukunaga M., Okada N., Morita K., Nemoto K., Yamashita F., Yamamori H., Yasuda Y., Fujimoto M., Kelly S., Jahanshad N., Kudo N., Azechi H., Watanabe Y., Donohoe G., Thompson P.M., Kasai K., Hashimoto R. Role of frontal white matter and corpus callosum on social function in schizophrenia. *Schizophrenia Research* 202, 180-7 (2018) DOI:10.1016/j.schres.2018.07.009
62. Hara S., Hori M., Inaji M., Maehara T., Aoki S., Nariai T. Regression of White Matter Hyperintensity after Indirect Bypass Surgery in a Patient with Moyamoya Disease. *Magnetic Resonance in Medical Sciences* (2018) DOI:10.2463/mrms.ci.2018-0088
63. Ishii Y., Maruyama S., Fujimura-Kamada K., Kutsuna N., Takahashi S., Kawata M., Minagawa J. Isolation of uracil auxotroph mutants of coral symbiont alga for symbiosis studies. *Scientific Reports* 8, 9 (2018) DOI:10.1038/s41598-018-21499-3
64. Sawada M., Ohno N., Kawaguchi M., Huang S.H., Hikita T., Sakurai Y., Nguyen H.B., Thai T.Q., Ishido Y., Yoshida Y., Nakagawa H., Uemura A., Sawamoto K. PlexinD1 signaling controls morphological changes and migration termination in newborn neurons. *Embo Journal* 37, 16 (2018) DOI:10.15252/embj.201797404
65. Saitou T., Kiyomatsu H., Imamura T. Quantitative Morphometry for Osteochondral Tissues Using Second Harmonic Generation Microscopy and Image Texture Information. *Scientific Reports* 8, 14 (2018) DOI:10.1038/s41598-018-21005-9
66. Tanoue R., Ohta K., Miyazono Y., Iwanaga J., Koba A., Natori T., Iwamoto O., Nakamura K.I., Kusakawa J. Three-dimensional ultrastructural analysis of the interface between an implanted demineralised dentin matrix and the surrounding newly formed bone. *Scientific Reports* 8, 9 (2018) DOI:10.1038/s41598-018-21291-3
67. Nakamura A., Tasaki T., Okuni Y., Song C.H., Murata K., Kozai T., Hara M., Sugimoto H., Suzuki K., Watanabe T., Uchihashi T., Noji H., Iino R. Rate constants, processivity, and productive binding ratio of chitinase A revealed by single-molecule analysis. *Physical Chemistry Chemical Physics* 20, 3010-8 (2018) DOI:10.1039/c7cp04606e
68. Ohta Y., Furuta T., Nagai T., Horikawa K. Red fluorescent cAMP indicator with increased affinity and expanded dynamic range. *Scientific Reports* 8, 9 (2018) DOI:10.1038/s41598-018-20251-1
69. Koshiyama D., Fukunaga M., Okada N., Yamashita F., Yamamori H., Yasuda Y., Fujimoto M., Ohi K., Fujino H., Watanabe Y., Kasai K., Hashimoto R. Role of subcortical structures on cognitive and social function in schizophrenia. *Scientific Reports* 8, 9 (2018) DOI:10.1038/s41598-017-18950-2
70. Ogasawara H., Grzybowski M., Hosokawa R., Sato Y., Taki M., Yamaguchi S. A far-red fluorescent probe based on a phospho-fluorescein scaffold for cytosolic calcium imaging. *Chemical Communications* 54, 299-302 (2018) DOI:10.1039/c7cc07344e

71. Koshiyama D., Fukunaga M., Okada N., Yamashita F., Yamamori H., Yasuda Y., Fujimoto M., Ohi K., Fujino H., Watanabe Y., Kasai K., Hashimoto R. Subcortical association with memory performance in schizophrenia: a structural magnetic resonance imaging study. *Translational Psychiatry* 8, 11 (2018) DOI:10.1038/s41398-017-0069-3
72. Fujimoto T., Kuwahara T., Eguchi T., Sakurai M., Komori T., Iwatsubo T. Parkinson's disease-associated mutant LRRK2 phosphorylates Rab7L1 and modifies trans-Golgi morphology. *Biochemical and Biophysical Research Communications* 495, 1708-15 (2018) DOI:10.1016/j.bbrc.2017.12.024
73. Kimura Y., Tasaka M., Torii K.U., Uchida N. ERECTA-family genes coordinate stem cell functions between the epidermal and internal layers of the shoot apical meristem. *Development* 145, 9 (2018) DOI:10.1242/dev.156380
74. Hirata A., Murata K., Hayashi K., Nakamura K. Three-Dimensional Analysis of Peeled Internal Limiting Membrane Using Focused Ion Beam/Scanning Electron Microscopy. *Translational Vision Science & Technology* 7, 9 (2018) DOI:10.1167/tvst.7.1.15
75. Goto M., Yamashita F., Kawaguchi A., Abe O., Aoki S., Miyati T., Gomi T., Takeda T., Japanese Alzheimer's Dis N. The Effect of Single-Scan and Scan-Pair Intensity Inhomogeneity Correction Methods on Repeatability of Voxel-Based Morphometry With Multiple Magnetic Resonance Scanners. *Journal of Computer Assisted Tomography* 42, 111-6 (2018) DOI:10.1097/rct.0000000000000657
76. Watanabe T., Song C.H., Murata K., Kureha T., Suzuki D. Seeded Emulsion Polymerization of Styrene in the Presence of Water-Swollen Hydrogel Microspheres. *Langmuir* 34, 8571-80 (2018) DOI:10.1021/acs.langmuir.8b01047
77. Hagiwara A., Hori M., Kamagata K., Warntjes M., Matsuyoshi D., Nakazawa M., Ueda R., Andica C., Koshino S., Maekawa T., Irie R., Takamura T., Kumamaru K.K., Abe O., Aoki S. Myelin Measurement: Comparison Between Simultaneous Tissue Relaxometry, Magnetization Transfer Saturation Index, and T(1)w/T(2)w Ratio Methods. *Scientific Reports* 8, 12 (2018) DOI:10.1038/s41598-018-28852-6
78. Hirota K., Yasoda A., Kanai Y., Ueda Y., Yamauchi I., Yamashita T., Sakane Y., Fujii T., Inagaki N. Live imaging analysis of the growth plate in a murine long bone explanted culture system. *Scientific Reports* 8, 10 (2018) DOI:10.1038/s41598-018-28742-x
79. Kakeda S., Watanabe K., Katsuki A., Sugimoto K., Igata N., Ueda I., Igata R., Abe O., Yoshimura R., Korogi Y. Relationship between interleukin (IL)-6 and brain morphology in drug-naïve, first-episode major depressive disorder using surface-based morphometry. *Scientific Reports* 8, 9 (2018) DOI:10.1038/s41598-018-28300-5
80. Kikuchi K., Nakamura A., Arata M., Shi D.B., Nakagawa M., Tanaka T., Uemura T., Fujimori T., Kikuchi A., Uezu A., Sakamoto Y., Nakanishi H. Map7/7D1 and Dvl form a feedback loop that facilitates microtubule remodeling and Wnt5a signaling. *Embo Reports* 19, 20 (2018) DOI:10.15252/embr.201745471
81. Kamiya K., Okada N., Sawada K., Watanabe Y., Irie R., Hanaoka S., Suzuki Y., Koike S., Mori H., Kunitatsu A., Hori M., Aoki S., Kasai K., Abe O. Diffusional kurtosis imaging and white matter microstructure modeling in a clinical study of major depressive disorder. *Nmr in Biomedicine* 31, 14 (2018) DOI:10.1002/nbm.3938
82. Komatsu N., Terai K., Imanishi A., Kamioka Y., Sumiyama K., Jin T., Okada Y., Nagai T., Matsuda M. A platform of BRET-FRET hybrid biosensors for optogenetics, chemical screening, and in vivo imaging. *Scientific Reports* 8, 14 (2018) DOI:10.1038/s41598-018-27174-x

83. Muta Y., Fujita Y., Sumiyama K., Sakurai A., Taketo M.M., Chiba T., Seno H., Aoki K., Matsuda M., Imajo M. Composite regulation of ERK activity dynamics underlying tumour-specific traits in the intestine. *Nature Communications* 9, 16 (2018) DOI:10.1038/s41467-018-04527-8
84. Otomo K., Hibi T., Fang Y.C., Hung J.H., Tsutsumi M., Kawakami R., Yokoyama H., Nemoto T. Advanced easy STED microscopy based on two-photon excitation by electrical modulations of light pulse wavefronts. *Biomedical Optics Express* 9, 2671-80 (2018) DOI:10.1364/boe.9.002671
85. Inaba K., Shiba K. Microscopic analysis of sperm movement: links to mechanisms and protein components. *Microscopy* 67, 144-55 (2018) DOI:10.1093/jmicro/dfy021
86. Hori M., Hagiwara A., Fukunaga I., Ueda R., Kamiya K., Suzuki Y., Liu W., Murata K., Takamura T., Hamasaki N., Irie R., Kamagata K., Kumamaru K.K., Suzuki M., Aoki S. Application of Quantitative Microstructural MR Imaging with Atlas-based Analysis for the Spinal Cord in Cervical Spondylotic Myelopathy. *Scientific Reports* 8, 8 (2018) DOI:10.1038/s41598-018-23527-8
87. Kuragano M., Murakami Y., Takahashi M. Nonmuscle myosin IIA and IIB differentially contribute to intrinsic and directed migration of human embryonic lung fibroblasts. *Biochemical and Biophysical Research Communications* 498, 25-31 (2018) DOI:10.1016/j.bbrc.2018.02.171
88. Lin H.A., Sato Y., Segawa Y., Nishihara T., Sugimoto N., Scott L.T., Higashiyama T., Itami K. A Water-Soluble Warped Nanographene: Synthesis and Applications for Photoinduced Cell Death. *Angewandte Chemie-International Edition* 57, 2874-8 (2018) DOI:10.1002/anie.201713387
89. Goto M., Kamagata K., Hatano T., Hattori N., Abe O., Aoki S., Hori M., Gomi T. Depressive symptoms in Parkinson's disease are related to decreased left hippocampal volume: correlation with the 15-item shortened version of the Geriatric Depression Scale. *Acta Radiologica* 59, 341-5 (2018) DOI:10.1177/0284185117719100
90. Kuno M., Hirano Y., Nakagawa A., Asano K., Oshima F., Nagaoka S., Matsumoto K., Masuda Y., Iyo M., Shimizu E. White Matter Features Associated With Autistic Traits in Obsessive-Compulsive Disorder. *Frontiers in Psychiatry* 9, 9 (2018) DOI:10.3389/fpsyt.2018.00216
91. Tanaka K., Takeda S., Mitsuoka K., Oda T., Kimura-Sakiyama C., Maeda Y., Narita A. Structural basis for cofilin binding and actin filament disassembly. *Nature Communications* 9, 12 (2018) DOI:10.1038/s41467-018-04290-w
92. Fujikake K., Sawada M., Hikita T., Seto Y., Kaneko N., Herranz-Perez V., Dohi N., Homma N., Osaga S., Yanagawa Y., Akaike T., Garcia-Verdugo J.M., Hattori M., Sobue K., Sawamoto K. Detachment of Chain-Forming Neuroblasts by Fyn-Mediated Control of cell-cell Adhesion in the Postnatal Brain. *Journal of Neuroscience* 38, 4598-609 (2018) DOI:10.1523/jneurosci.1960-17.2018
93. Matsuyama S., Kage Y., Fujimoto N., Ushijima T., Tsuruda T., Kitamura K., Shiose A., Asada Y., Sumimoto H., Takeya R. Interaction between cardiac myosin-binding protein C and formin Fhod3. *Proceedings of the National Academy of Sciences of the United States of America* 115, E4386-E95 (2018) DOI:10.1073/pnas.1716498115
94. Andica C., Hagiwara A., Hori M., Nakazawa M., Goto M., Koshino S., Kamagata K., Kumamaru K.K., Aoki S. Automated brain tissue and myelin volumetry based on quantitative MR imaging with various in-plane resolutions. *Journal of Neuroradiology* 45, 164-8 (2018) DOI:10.1016/j.neurad.2017.10.002

95. Ida-Yonemochi H., Morita W., Sugiura N., Kawakami R., Morioka Y., Takeuchi Y., Sato T., Shibata S., Watanabe H., Imamura T., Igarashi M., Ohshima H., Takeuchi K. Craniofacial abnormality with skeletal dysplasia in mice lacking chondroitin sulfate N-acetylgalactosaminyltransferase-1. **Scientific Reports** 8, 15 (2018) DOI:10.1038/s41598-018-35412-5
96. Takeda A., Shinozaki Y., Kashiwagi K., Ohno N., Eto K., Wake H., Nabekura J., Koizumi S. Microglia mediate non-cell-autonomous cell death of retinal ganglion cells. **Glia** 66, 2366-84 (2018) DOI:10.1002/glia.23475
97. Abe T., Kutsuna N., Kiyonari H., Furuta Y., Fujimori T. ROSA26 reporter mouse lines and image analyses reveal distinct region-specific cell behaviors in the visceral endoderm. **Development** 145, 7 (2018) DOI:10.1242/dev.165852
98. Sano T., Kobayashi T., Ogawa O., Matsuda M. Gliding Basal Cell Migration of the Urothelium during Wound Healing. **American Journal of Pathology** 188, 2564-73 (2018) DOI:10.1016/j.ajpath.2018.07.010
99. Hirano T., Konno H., Takeda S., Dolan L., Kato M., Aoyama T., Higaki T., Takigawa-Imamura H., Sato M.H. PtdIns(3,5)P2 mediates root hair shank hardening in Arabidopsis. **Nat Plants** 4, 888-97 (2018) DOI:10.1038/s41477-018-0277-8
100. Tsunoda J., Song C.H., Imai F.L., Takagi J., Ueno H., Murata T., Iino R., Murata K. Off-axis rotor in *Enterococcus hirae* V-ATPase visualized by Zernike phase plate single-particle cryo-electron microscopy. **Scientific Reports** 8, 10 (2018) DOI:10.1038/s41598-018-33977-9
101. Hara S., Hori M., Murata S., Ueda R., Tanaka Y., Inaji M., Machara T., Aoki S., Nariai T. Microstructural Damage in Normal-Appearing Brain Parenchyma and Neurocognitive Dysfunction in Adult Moyamoya Disease. **Stroke** 49, 2504-7 (2018) DOI:10.1161/strokeaha.118.022367
102. Ageta-Ishihara N., Konno K., Yamazaki M., Abe M., Sakimura K., Watanabe M., Kinoshita M. CDC42EP4, a perisynaptic scaffold protein in Bergmann glia, is required for glutamatergic tripartite synapse configuration. **Neurochemistry International** 119, 190-8 (2018) DOI:10.1016/j.neuint.2018.01.003
103. Ageta H., Ageta-Ishihara N., Hitachi K., Karayel O., Onouchi T., Yamaguchi H., Kahyo T., Hatanaka K., Ikegami K., Yoshioka Y., Nakamura K., Kosaka N., Nakatani M., Uezumi A., Ide T., Tsutsumi Y., Sugimura H., Kinoshita M., Ochiya T., Mann M., Setou M., Tsuchida K. UBL3 modification influences protein sorting to small extracellular vesicles. **Nature Communications** 9, 12 (2018) DOI:10.1038/s41467-018-06197-y
104. Eguchi T., Kuwahara T., Sakurai M., Komori T., Fujimoto T., Ito G., Yoshimura S., Harada A., Fukuda M., Koike M., Iwatsubo T. LRRK2 and its substrate Rab GTPases are sequentially targeted onto stressed lysosomes and maintain their homeostasis. **Proceedings of the National Academy of Sciences of the United States of America** 115, E9115-E24 (2018) DOI:10.1073/pnas.1812196115
105. Miyatake Y., Kuribayashi-Shigetomi K., Ohta Y., Ikeshita S., Subagyo A., Sueoka K., Kakugo A., Amano M., Takahashi T., Okajima T., Kasahara M. Visualising the dynamics of live pancreatic microtumours self-organised through cell-in-cell invasion. **Scientific Reports** 8, 13 (2018) DOI:10.1038/s41598-018-32122-w
106. Kakegawa W., Katoh A., Narumi S., Miura E., Motohashi J., Takahashi A., Kohda K., Fukazawa Y., Yuzaki M., Matsuda S. Optogenetic Control of Synaptic AMPA Receptor Endocytosis Reveals Roles of LTD in Motor Learning. **Neuron** 99, 985-+ (2018) DOI:10.1016/j.neuron.2018.07.034
107. Tanaka H., Okazaki T., Yokota M., Koike M., Okada Y., Fujiki Y., Gotoh Y. Peroxisomes control mitochondrial dynamics and the mitochondrion-dependent pathway of apoptosis. **bioRxiv**, 407098 (2018) DOI:10.1101/407098

108. Kawaoka T., Ohnuki S., Ohya Y., Suzuki K. Morphometric analysis of autophagy-related structures in *Saccharomyces cerevisiae*. *Autophagy* 13, 2104-10 (2017)  
DOI:10.1080/15548627.2017.1384888
109. Takeda K., Matsumoto M., Ogata Y., Maida K., Murakami H., Murayama K., Shimoji K., Hanakawa T., Matsumoto K., Nakagome K. Impaired prefrontal activity to regulate the intrinsic motivation-action link in schizophrenia. *Neuroimage-Clinical* 16, 32-42 (2017)  
DOI:10.1016/j.nicl.2017.07.003
110. Abe H., Shimoji K., Nagamine Y., Fujiwara S., Izumi S.I. Predictors of Recovery from Traumatic Brain Injury-Induced Prolonged Consciousness Disorder. *Neural Plasticity*, 11 (2017) DOI:10.1155/2017/9358092
111. Goto M., Abe O., Miyati T., Aoki S., Gomi T., Takeda T. Mis-segmentation in voxel-based morphometry due to a signal intensity change in the putamen. *Radiological Physics and Technology* 10, 515-24 (2017) DOI:10.1007/s12194-017-0424-3
112. Hagiwara A., Hori M., Yokoyama K., Takemura M.Y., Andica C., Kumamaru K.K., Nakazawa M., Takano N., Kawasaki H., Sato S., Hamasaki N., Kunitatsu A., Aoki S. Utility of a multiparametric quantitative MRI model that assesses myelin and edema for evaluating plaques, periplaque white matter, and normal-appearing white matter in patients with multiple sclerosis: A feasibility study. *American Journal of Neuroradiology* 38, 237-42 (2017)  
DOI:10.3174/ajnr.A4977
113. Hori M., Kamiya K., Irie R. Advanced diffusion-weighted magnetic resonance imaging in the evaluation of white matter axons in patients with idiopathic normal pressure hydrocephalus. *Neural Regeneration Research* 12, 1974-5 (2017) DOI:10.4103/1673-5374.221149
114. Mizuno Y., Jung M., Fujisawa T.X., Takiguchi S., Shimada K., Saito D.N., Kosaka H., Tomoda A. Catechol-O-methyltransferase polymorphism is associated with the cortico-cerebellar functional connectivity of executive function in children with attention-deficit/hyperactivity disorder. *Scientific Reports* 7(2017) DOI:10.1038/s41598-017-04579-8
115. Abe H., Keigo S., Takeo K., Takanori K., Yoshihide N., Satoru F., Yutaka O., Shin-Ichi I. Longitudinal White Matter Alteration in Prolonged Disorders of Consciousness due to Traffic Accidents. *International Journal of Neurology and Neurotherapy* 4(2017)  
DOI:10.23937/2378-3001/1410064
116. Tsuchiyagaito A., Hirano Y., Asano K., Oshima F., Nagaoka S., Takebayashi Y., Matsumoto K., Masuda Y., Iyo M., Shimizu E., Nakagawa A. Cognitive-Behavioral Therapy for Obsessive-Compulsive Disorder with and without Autism Spectrum Disorder: Gray Matter Differences Associated with Poor Outcome. *Front Psychiatry* 8, 143 (2017)  
DOI:10.3389/fpsy.2017.00143
117. Kimura K., Mamane A., Sasaki T., Sato K., Takagi J., Niwayama R., Hufnagel L., Shimamoto Y., Joanny J.F., Uchida S., Kimura A. Endoplasmic-reticulum-mediated microtubule alignment governs cytoplasmic streaming. *Nature Cell Biology* 19, 399-+ (2017)  
DOI:10.1038/ncb3490
118. Sato K., Kerever A., Kamagata K., Tsuruta K., Irie R., Tagawa K., Okazawa H., Arikawa-Hirasawa E., Nitta N., Aoki I., Aoki S. Understanding microstructure of the brain by comparison of neurite orientation dispersion and density imaging (NODDI) with transparent mouse brain. *Acta Radiol Open* 6, 2058460117703816 (2017)  
DOI:10.1177/2058460117703816
119. Andica C., Hagiwara A., Nakazawa M., Kumamaru K.K., Hori M., Ikeno M., Shimizu T., Aoki S. Synthetic MR Imaging in the Diagnosis of Bacterial Meningitis. *Magnetic Resonance in Medical Sciences* 16, 91-2 (2017) DOI:10.2463/mrms.ci.2016-0082

120. Wang C.G., Taki M., Sato Y., Fukazawa A., Higashiyama T., Yamaguchi S. Super-Photostable Phosphole-Based Dye for Multiple-Acquisition Stimulated Emission Depletion Imaging. *Journal of the American Chemical Society* 139, 10374-81 (2017) DOI:10.1021/jacs.7b04418
121. Takano N., Suzuki M., Irie R., Yamamoto M., Teranishi K., Yatomi K., Hamasaki N., Kumamaru K.K., Hori M., Oishi H., Aoki S. Non-Contrast-Enhanced Silent Scan MR Angiography of Intracranial Anterior Circulation Aneurysms Treated with a Low-Profile Visualized Intraluminal Support Device. *American Journal of Neuroradiology* 38, 1610-6 (2017) DOI:10.3174/ajnr.A5223
122. Sobu Y., Furukori K., Chiba K., Nairn A.C., Kinjo M., Hata S., Suzuki T. Phosphorylation of multiple sites within an acidic region of Alcadein alpha is required for kinesin-1 association and Golgi exit of Alcadein alpha cargo. *Molecular Biology of the Cell* 28, 3844-56 (2017) DOI:10.1091/mbc.E17-05-0301
123. Chiba K., Chien K.Y., Sobu Y., Hata S., Kato S., Nakaya T., Okada Y., Nairn A.C., Kinjo M., Taru H., Wang R., Suzuki T. Phosphorylation of KLC1 modifies interaction with JIP1 and abolishes the enhanced fast velocity of APP transport by kinesin-1. *Molecular Biology of the Cell* 28, 3857-69 (2017) DOI:10.1091/mbc.E17-05-0303
124. Nakao A., Miyazaki N., Ohira K., Hagihara H., Takagi T., Usuda N., Ishii S., Murata K., Miyakawa T. Immature morphological properties in subcellular-scale structures in the dentate gyrus of Schnurri-2 knockout mice: a model for schizophrenia and intellectual disability. *Molecular Brain* 10, 11 (2017) DOI:10.1186/s13041-017-0339-2
125. Koike S., Satomura Y., Kawasaki S., Nishimura Y., Kinoshita A., Sakurada H., Yamagishi M., Ichikawa E., Matsuoka J., Okada N., Takizawa R., Kasai K. Application of functional near infrared spectroscopy as supplementary examination for diagnosis of clinical stages of psychosis spectrum. *Psychiatry and Clinical Neurosciences* 71, 794-806 (2017) DOI:10.1111/pcn.12551
126. Hori M., Irie R., Suzuki M., Aoki S. Teaching Neuroimages: Obscured Cerebral Infarction on MRI. *Clin Neuroradiol* 27, 519-20 (2017) DOI:10.1007/s00062-017-0576-x
127. Uno K., Sasaki T., Sugimoto N., Ito H., Nishihara T., Hagihara S., Higashiyama T., Sasaki N., Sato Y., Itami K. Key Structural Elements of Unsymmetrical Cyanine Dyes for Highly Sensitive Fluorescence Turn-On DNA Probes. *Chemistry-an Asian Journal* 12, 233-8 (2017) DOI:10.1002/asia.201601430
128. Katoh M., Wu B., Nguyen H.B., Thai T.Q., Yamasaki R., Lu H.Y., Rietsch A.M., Zorlu M.M., Shinozaki Y., Saitoh Y., Saitoh S., Sakoh T., Ikenaka K., Koizumi S., Ransohoff R.M., Ohno N. Polymorphic regulation of mitochondrial fission and fusion modifies phenotypes of microglia in neuroinflammation. *Scientific Reports* 7, 14 (2017) DOI:10.1038/s41598-017-05232-0
129. Morizawa Y.M., Hirayama Y., Ohno N., Shibata S., Shigetomi E., Sui Y., Nabekura J., Sato K., Okajima F., Takebayashi H., Okano H., Koizumi S. Reactive astrocytes function as phagocytes after brain ischemia via ABCA1-mediated pathway. *Nature Communications* 8, 15 (2017) DOI:10.1038/s41467-017-00037-1
130. Arai R., Sugawara T., Sato Y., Minakuchi Y., Toyoda A., Nabeshima K., Kimura H., Kimura A. Reduction in chromosome mobility accompanies nuclear organization during early embryogenesis in *Caenorhabditis elegans*. *Scientific Reports* 7, 10 (2017) DOI:10.1038/s41598-017-03483-5
131. Kaneko N., Sawada M., Sawamoto K. Mechanisms of neuronal migration in the adult brain. *Journal of Neurochemistry* 141, 835-47 (2017) DOI:10.1111/jnc.14002

132. Kotani R., Sotome H., Okajima H., Yokoyama S., Nakaike Y., Kashiwagi A., Mori C., Nakada Y., Yamaguchi S., Osuka A., Sakamoto A., Miyasaka H., Saito S. Flapping viscosity probe that shows polarity-independent ratiometric fluorescence. *Journal of Materials Chemistry C* 5, 5248-56 (2017) DOI:10.1039/c7tc01533j
133. Ikematsu S., Tasaka M., Torii K.U., Uchida N. ERECTA-family receptor kinase genes redundantly prevent premature progression of secondary growth in the Arabidopsis hypocotyl. *New Phytologist* 213, 1697-709 (2017) DOI:10.1111/nph.14335
134. Takano N., Suzuki M., Irie R., Yamamoto M., Hamasaki N., Kamagata K., Kumamaru K.K., Hori M., Oishi H., Aoki S. Usefulness of Non-Contrast-Enhanced MR Angiography Using a Silent Scan for Follow-Up after Y-Configuration Stent-Assisted Coil Embolization for Basilar Tip Aneurysms. *American Journal of Neuroradiology* 38, 577-81 (2017) DOI:10.3174/ajnr.A5033
135. Konagaya Y., Teraï K., Hirao Y., Takakura K., Imajo M., Kamioka Y., Sasaoka N., Kakizuka A., Sumiyama K., Asano T., Matsuda M. A Highly Sensitive FRET Biosensor for AMPK Exhibits Heterogeneous AMPK Responses among Cells and Organs. *Cell Reports* 21, 2628-38 (2017) DOI:10.1016/j.celrep.2017.10.113
136. Sasabayashi D., Takayanagi Y., Takahashi T., Koike S., Yamasue H., Katagiri N., Sakuma A., Obara C., Nakamura M., Furuichi A., Kido M., Nishikawa Y., Noguchi K., Matsumoto K., Mizuno M., Kasai K., Suzuki M. Increased Occipital Gyrfication and Development of Psychotic Disorders in Individuals With an At-Risk Mental State: A Multicenter Study. *Biological Psychiatry* 82, 737-45 (2017) DOI:10.1016/j.biopsych.2017.05.018
137. Tsuiji H., Inoue I., Takeuchi M., Furuya A., Yamakage Y., Watanabe S., Koike M., Hattori M., Yamanaka K. TDP-43 accelerates age-dependent degeneration of interneurons. *Scientific Reports* 7, 13 (2017) DOI:10.1038/s41598-017-14966-w
138. Yamaguchi S., Fukazawa A., Taki M. Phosphole P-Oxide-Containing pi-Electron Materials: Synthesis and Applications in Fluorescence Imaging. *Journal of Synthetic Organic Chemistry Japan* 75, 1179-87 (2017)
139. Shinozaki Y., Kashiwagi K., Namekata K., Takeda A., Ohno N., Robaye B., Harada T., Iwata T., Koizumi S. Purinergic dysregulation causes hypertensive glaucoma-like optic neuropathy. *Jci Insight* 2, 14 (2017) DOI:10.1172/jci.insight.93456
140. Hagiwara A., Hori M., Yokoyama K., Nakazawa M., Ueda R., Horita M., Andica C., Abe O., Aoki S. Analysis of White Matter Damage in Patients with Multiple Sclerosis via a Novel In Vivo MR Method for Measuring Myelin, Axons, and G-Ratio. *American Journal of Neuroradiology* 38, 1934-40 (2017) DOI:10.3174/ajnr.A5312
141. Hagiwara A., Warntjes M., Hori M., Andica C., Nakazawa M., Kumamaru K.K., Abe O., Aoki S. SyMRI of the Brain Rapid Quantification of Relaxation Rates and Proton Density, With Synthetic MRI, Automatic Brain Segmentation, and Myelin Measurement. *Investigative Radiology* 52, 647-57 (2017) DOI:10.1097/rli.0000000000000365
142. Satoh T., Song C., Zhu T., Toshimori T., Murata K., Hayashi Y., Kamikubo H., Uchihashi T., Kato K. Visualisation of a flexible modular structure of the ER folding-sensor enzyme UGGT. *Scientific Reports* 7, 10 (2017) DOI:10.1038/s41598-017-12283-w
143. Tsuboyama K., Koyama-Honda I., Sakamaki Y., Koike M., Morishita H., Mizushima N. The ATG conjugation systems are important for degradation of the inner autophagosomal membrane. *Science* 354, 1036-41 (2016) DOI:10.1126/science.aaf6136

144. Sakakibara E., Homae F., Kawasaki S., Nishimura Y., Takizawa R., Koike S., Kinoshita A., Sakurada H., Yamagishi M., Nishimura F., Yoshikawa A., Inai A., Nishioka M., Eriguchi Y., Matsuoka J., Satomura Y., Okada N., Kakiuchi C., Araki T., Kan C., Umeda M., Shimazu A., Uga M., Dan I., Hashimoto H., Kawakami N., Kasai K. Detection of resting state functional connectivity using partial correlation analysis: A study using multi-distance and whole-head probe near-infrared spectroscopy. *Neuroimage* 142, 590-601 (2016)  
DOI:10.1016/j.neuroimage.2016.08.011