

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. 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. *Nat Commun* 9, 3936 (2018) DOI:10.1038/s41467-018-06197-y
2. 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
3. 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
4. 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(2018) DOI:10.1038/s41598-018-33977-9
5. 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. *Sci Rep* 8, 17134 (2018) DOI:10.1038/s41598-018-35412-5
6. 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(2018) DOI:10.1242/dev.165852
7. 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
8. 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
9. 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. *Proc Natl Acad Sci U S A* 115, E4386-E95 (2018) DOI:10.1073/pnas.1716498115
10. 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
11. 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

12. 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(2018) DOI:10.3389/fpsy.2018.00216
13. 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(2018) DOI:10.1038/s41467-018-04290-w
14. Kuragano M., Murakami Y., Takahashi M. Nonmuscle myosin IIA and IIB differentially contribute to intrinsic and directed migration of human embryonic lung fibroblasts. *Biochem Biophys Res Commun* 498, 25-31 (2018) DOI:10.1016/j.bbrc.2018.02.171
15. 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. *Angew Chem Int Ed Engl* 57, 2874-8 (2018) DOI:10.1002/anie.201713387
16. 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
17. 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
18. 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(2018) DOI:10.1038/s41598-018-27174-x
19. 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(2018) DOI:10.1038/s41467-018-04527-8
20. 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. *Sci Rep* 8, 10332 (2018) DOI:10.1038/s41598-018-28742-x
21. 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(2018) DOI:10.1038/s41598-018-28852-6
22. 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-naive, first-episode major depressive disorder using surface-based morphometry. *Scientific Reports* 8(2018) DOI:10.1038/s41598-018-28300-5
23. Kamiya K., Okada N., Sawada K., Watanabe Y., Irie R., Hanaoka S., Suzuki Y., Koike S., Mori H., Kunimatsu 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(2018) DOI:10.1002/nbm.3938
24. 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(2018) DOI:10.15252/embr.201745471
25. 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

26. 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
27. Ohta Y., Furuta T., Nagai T., Horikawa K. Red fluorescent cAMP indicator with increased affinity and expanded dynamic range. *Sci Rep* 8, 1866 (2018) DOI:10.1038/s41598-018-20251-1
28. 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(2018) DOI:10.1242/dev.156380
29. 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. *Chem Commun (Camb)* 54, 299-302 (2018) DOI:10.1039/c7cc07344e
30. 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
31. 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(2018) DOI:10.1167/tvst.7.1.15
32. 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(2018) DOI:10.1038/s41398-017-0069-3
33. 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(2018) DOI:10.1038/s41598-017-18950-2
34. 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. *Sci Rep* 8, 3237 (2018) DOI:10.1038/s41598-018-21499-3
35. 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
36. 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
37. Saitou T., Kiyomatsu H., Imamura T. Quantitative Morphometry for Osteochondral Tissues Using Second Harmonic Generation Microscopy and Image Texture Information. *Scientific Reports* 8(2018) DOI:10.1038/s41598-018-21005-9
38. 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(2018) DOI:10.15252/embj.201797404
39. Tanoue R., Ohta K., Miyazono Y., Iwanaga J., Koba A., Natori T., Iwamoto O., Nakamura K.I., Kusukawa J. Three-dimensional ultrastructural analysis of the interface between an implanted

- demineralised dentin matrix and the surrounding newly formed bone. *Scientific Reports* 8(2018) DOI:10.1038/s41598-018-21291-3
40. 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
 41. 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* (2018) DOI:10.1016/j.neuron.2018.07.034
 42. 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
 43. 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
 44. 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(2018) DOI:10.1038/s41398-018-0174-y
 45. 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
 46. 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
 47. Saeki A., Sugiyama M., Hasebe A., Suzuki T., Shibata K. Activation of NLRP3 inflammasome in macrophages by mycoplasmal lipoproteins and lipopeptides. *Mol Oral Microbiol* (2018) DOI:10.1111/omi.12225
 48. 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. *Mol Biol Cell* 29, 911-22 (2018) DOI:10.1091/mbc.E17-04-0215
 49. 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
 50. 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
 51. 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
 52. 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. *Nature Plants* 4, 888-97 (2018) DOI:10.1038/s41477-018-0277-8

53. 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, 14054 (2018) DOI:10.1038/s41598-018-32122-w
54. Fujikake K., Sawada M., Hikita T., Seto Y., Kaneko N., Herranz-Pérez V., Dohi N., Homma N., Osaga S., Yanagawa Y., Akaike T., García-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
55. 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
56. 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
57. 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
58. 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(2018) DOI:10.1038/s41598-018-23527-8
59. Imanishi A., Murata T., Sato M., Hotta K., Imayoshi 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
60. 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
61. 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
62. 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
63. Otomo K., Hibi T., Fang Y.C., Hung J.H., Tsutsumi M., Kawakami R., Yokoyama H., Nemoto T. Advanced easySTED 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

64. 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(2017) DOI:10.1038/s41598-017-12283-w
65. 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
66. 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. *Sci Rep* 7, 14972 (2017) DOI:10.1038/s41598-017-14966-w
67. Konagaya Y., Terai 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
68. 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
69. 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)
70. 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 Phytol* 213, 1697-709 (2017) DOI:10.1111/nph.14335
71. 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
72. 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(2017) DOI:10.1038/s41598-017-03483-5
73. 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
74. 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
75. 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(2017) DOI:10.1038/s41467-017-00037-1
76. 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(2017) DOI:10.1038/s41598-017-05232-0

77. 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. *Chem Asian J* 12, 233-8 (2017)
DOI:10.1002/asia.201601430
78. 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. *Mol Brain* 10, 60 (2017) DOI:10.1186/s13041-017-0339-2
79. 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
80. 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
81. Sobu Y., Furukori K., Chiba K., Nairn A.C., Kinjo M., Hata S., Suzuki T. Phosphorylation of multiple sites within an acidic region of Alcadin alpha is required for kinesin-1 association and Golgi exit of Alcadin alpha cargo. *Molecular Biology of the Cell* 28, 3844-56 (2017)
DOI:10.1091/mbc.E17-05-0301
82. 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
83. 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
84. 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. *Nat Cell Biol* 19, 399-406 (2017) DOI:10.1038/ncb3490
85. Abe H., Shimoji K., Nagamine Y., Fujiwara S., Izumi S.I. Predictors of Recovery from Traumatic Brain Injury-Induced Prolonged Consciousness Disorder. *Neural Plasticity* (2017)
DOI:10.1155/2017/9358092
86. 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
87. 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
88. Hagiwara A., Hori M., Yokoyama K., Takemura M.Y., Andica C., Kumamaru K.K., Nakazawa M., Takano N., Kawasaki H., Sato S., Hamasaki N., Kunimatsu 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

89. 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
90. 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
91. 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
92. 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 Clin* 16, 32-42 (2017) DOI:10.1016/j.nicl.2017.07.003
93. 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. *Frontiers in Psychiatry* 8(2017) DOI:10.3389/fpsy.2017.00143
94. 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
95. 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
96. Watanabe T., Kobayashi C., Song C., Murata K., Kureha T., Suzuki D. Impact of Spatial Distribution of Charged Groups in Core Poly(N-isopropylacrylamide)-Based Microgels on the Resultant Composite Structures Prepared by Seeded Emulsion Polymerization of Styrene. *Langmuir* 32, 12760-73 (2016) DOI:10.1021/acs.langmuir.6b03172