

## List of Publications FY 2016

### A. WPI papers

#### 1.) Original articles

01. Funato H, Miyoshi C, Fujiyama T, Kanda T, Sato M, Wang ZQ, Ma J, Nakane S, Tomita J, Ikkyu A, Kakizaki M, Hotta-Hirashima N, Kanno S, Komiya H, Asano F, Honda T, Kim SJ, Harano K, Muramoto H, Yonezawa T, Mizuno S, Miyazaki S, Connor L, Kumar V, Miura I, Suzuki T, Watanabe A, Abe M, Sugiyama F, Takahashi S, Sakimura K, Hayashi Y, Liu QH, Kume K, Wakana S, Takahashi JS, Yanagisawa M (2016) Forward-genetics analysis of sleep in randomly mutagenized mice. *Nature* 539(7629): 378-383. doi:10.1038/nature20142
02. Hossain MS, Asano F, Fujiyama T, Miyoshi C, Sato M, Ikkyu A, Kanno S, Hotta N, Kakizaki M, Honda T, Kim SJ, Komiya H, Miura I, Suzuki T, Kobayashi K, Kaneda H, Kumar V, Takahashi JS, Wakana S, Funato H, Yanagisawa M (2016) Identification of mutations through dominant screening for obesity using C57BL/6 substrains. *Sci Rep* 6: 34253. doi:10.1038/srep32453
03. Takase K, Tsuneoka Y, Oda S, Kuroda M, Funato H (2016) High-fat diet feeding alters olfactory-, social-, and reward-related behaviors of mice independent of obesity. *Obesity* 24(4): 886-894. doi:10.1002/oby.21441
04. Takeuchi T, Duszkiwicz AJ, Sonneborn A, Spooner PA, Yamasaki M, Watanabe M, Smith CC, Fernandez G, Deisseroth K, Greene RW, Morris RGM (2016) Locus coeruleus and dopaminergic consolidation of everyday memory. *Nature* 537(7620): 357-362. doi:10.1038/nature19325
05. Bjorness TE, Dale N, Mettlach G, Sonneborn A, Sahin B, Fienberg AA, Yanagisawa M, Bibb JA, Greene RW (2016) An Adenosine-Mediated Glial-Neuronal Circuit for Homeostatic Sleep. *J. Neurosci.* 36(13): 3709-3721. doi:10.1523/JNEUROSCI.3906-15.2016
06. McEown K, Takata Y, Cherasse Y, Nagata N, Aritake K, Lazarus M (2016) Chemogenetic inhibition of the medial prefrontal cortex reverses the effects of REM sleep loss on sucrose consumption. *eLife* 5: e20269. doi:10.7554/eLife.20269
07. Deguchi Y, Harada M, Shinohara R, Lazarus M, Cherasse Y, Urade Y, Yamada D, Sekiguchi M, Watanabe D, Furuyashiki T, Narumiya S (2016) mDia and ROCK Mediate Actin-Dependent Presynaptic Remodeling Regulating Synaptic Efficacy and Anxiety. *Cell Reports* 17(9): 2405-2417. doi:10.1016/j.celrep.2016.10.088
08. Kong DP, Shen YJ, Liu GZ, Zuo SK, Ji Y, Lu AK, Nakamura M, Lazarus M, Stratakis CA, Breyer RM, Yu Y (2016) PKA regulatory II alpha subunit is essential for PGD(2)-mediated resolution of inflammation. *J. Exp. Med.* 213(10): 2209-2226. doi:10.1084/jem.20160459
09. Chen L, Yin D, Wang TX, Guo W, Dong H, Xu Q, Luo YJ, Cherasse Y, Lazarus M, Qiu ZL, Lu J, Qu WM, Huang ZL (2016) Basal Forebrain Cholinergic Neurons Primarily Contribute to Inhibition of Electroencephalogram Delta Activity, Rather Than Inducing Behavioral Wakefulness in Mice. *Neuropsychopharmacology* 41(8): 2133-2146. doi:10.1038/npp.2016.13
10. Fritz M, Klawonn AM, Nilsson A, Singh AK, Zajdel J, Wilhelms DB, Lazarus M, Lofberg A, Jaarola M, Kugelberg UO, Billiar TR, Hackam DJ, Sodhi CP, Breyer MD, Jakobsson J, Schwaninger M, Schuetz G, Parkitna JR, Saper CB, Blomqvist A, Engblom D (2016) Prostaglandin-dependent modulation of dopaminergic neurotransmission elicits inflammation-induced aversion in mice. *J. Clin. Invest.* 126(2): 695-705. doi:10.1172/JCI83844
11. Fujinaka A, Li RS, Hayashi M, Kumar D, Changarathil G, Naito K, Miki K, Nishiyama T, Lazarus M, Sakurai T, Kee N, Nakajima S, Wang SH, Sakaguchi M (2016) Effect of context exposure after fear learning on memory generalization in mice. *Mol. Brain* 9:2 doi:10.1186/s13041-015-0184-0

12. Oishi Y, Takata Y, Taguchi Y, Kohtoh S, Urade Y, Lazarus M (2016) Polygraphic Recording Procedure for Measuring Sleep in Mice. *J. Vis. Exp* 107: e53678. doi:10.3791/53678
13. Doki S, Kaneko H, Oi Y, Usami K, Sasahara S, Matsuzaki I (2016) Risk Factors for Suicidal Ideation Among Telephone Crisis Hotline Callers in Japan. *Crisis* 37(6): 438-444. doi:10.1027/0227-5910/a000384
14. Doki S, Sasahara S, Oi Y, Matsuzaki I (2016) A survey of support systems for return to work in Japanese companies: a cross-sectional study. *Ind. Health* 54(6): 564-572. doi:10.2486/indhealth.2015-0185
15. Doki S, Sasahara S, Hirai Y, Oi Y, Matsuzaki I (2016) Absenteeism due to mental health problems and systems for return to work: an internet-based unmatched case-control study. *Int. Arch. Occup. Environ. Health* 89(8): 1279-1287. doi:10.1007/s00420-016-1162-2
16. Yajima S, Saitoh T, Kawa K, Nakamura K, Nagase H, Einaga Y, Nishiyama S (2016) Asymmetric induction in cyclohexadienones carrying alpha-D-glucopyranosyl moiety. *Tetrahedron* 72(51): 8428-8435. doi:10.1016/j.tet.2016.10.068
17. Kutsumura N, Koyama Y, Tateno K, Yamamoto N, Nagase H, Saito T (2016) ZnCl<sub>2</sub>-Promoted Intramolecular Hetero-Diels-Alder Reaction of o-Alkynylphenylcarbodiimides for Synthesis of Dihydrodibenzo[b,g][1,8]naphthyridines. *Chem. Pharm. Bull.* 64(9): 1364-1369. doi:10.1248/cpb.c16-00363
18. Tashiro S, Yamaguchi R, Ishikawa S, Sakurai T, Kajiya K, Kanmura Y, Kuwaki T, Kashiwadani H (2016) Odour-induced analgesia mediated by hypothalamic orexin neurons in mice. *Sci Rep* 6: 37129. doi:10.1038/srep37129
19. Okamoto K, Yamasaki M, Takao K, Soya S, Iwasaki M, Sasaki K, Magoori K, Sakakibara I, Miyakawa T, Mieda M, Watanabe M, Sakai J, Yanagisawa M, Sakurai T (2016) QRFP-Deficient Mice Are Hypophagic, Lean, Hypoactive and Exhibit Increased Anxiety-Like Behavior. *PLoS One* 11(11): e0164716. doi:10.1371/journal.pone.0164716
20. Tsuneki H, Kon K, Ito H, Yamazaki M, Takahara S, Toyooka N, Ishii Y, Sasahara M, Wada T, Yanagisawa M, Sakurai T, Sasaoka, T (2016) Timed Inhibition of Orexin System by Suvorexant Improved Sleep and Glucose Metabolism in Type 2 Diabetic db/db Mice. *Endocrinology* 157(11): 4146-4157. doi:10.1210/en.2016-1404
21. Mieda M, Okamoto H, Sakurai T (2016) Manipulating the Cellular Circadian Period of Arginine Vasopressin Neurons Alters the Behavioral Circadian Period. *Curr. Biol.* 26(18): 2535-2542. doi:10.1016/j.cub.2016.07.022
22. Tsuneki H, Sasaoka T, Sakurai T. Sleep Control, GPCRs, and Glucose Metabolism (2016) *Trends Endocrinol. Metab.* 27(9): 633-642. doi:10.1016/j.tem.2016.06.011
23. Motoike T, Long JM, Tanaka H, Sinton CM, Skach A, Williams SC, Hammer RE, Sakurai T, Yanagisawa M (2016) Mesolimbic neuropeptide W coordinates stress responses under novel environments. *Proc. Natl. Acad. Sci. U.S.A.* 113(21): 6023-6028. doi:10.1073/pnas.1518658113
24. Tsuneki H, Nagata T, Fujita M, Kon K, Wu NZ, Takatsuki M, Yamaguchi K, Wada T, Nishijo H, Yanagisawa M, Sakurai T, Sasaoka T (2016) Nighttime Administration of Nicotine Improves Hepatic Glucose Metabolism via the Hypothalamic Orexin System in Mice. *Endocrinology* 157(1): 195-206. doi:10.1210/en.2015-1488
25. Nakagawa Y, Satoh A, Tezuka H, Han S, Takei K, Iwasaki H, Yatoh S, Yahagi N, Suzuki H, Iwasaki Y, Sone H, Matsuzaka T, Yamada N, Shimano H (2016) CREB3L3 controls fatty acid oxidation and ketogenesis in synergy with PPAR alpha. *Sci Rep* 6: 39182. doi:10.1038/srep39182
26. Sunaga H, Matsui H, Anjo S, Syamsunarno MRAA, Koitabashi N, Iso T, Matsuzaka T, Shimano H, Yokoyama T, Kurabayashi M (2016) Elongation of Long-Chain Fatty Acid Family Member 6 (Elovl6)-Driven Fatty Acid Metabolism Regulates Vascular Smooth Muscle Cell Phenotype Through AMP-Activated Protein

- Kinase/Kruppel-Like Factor 4 (AMPK/KLF4) Signaling. *J. Am. Heart Assoc.* 5(12): e004014. doi: 10.1161/JAHA.116.004014
27. Kikuchi T, Orihara K, Oikawa F, Han SI, Kuba M, Okuda K, Satoh A, Osaki Y, Takeuchi Y, Aita Y, Matsuzaka T, Iwasaki H, Yatoh S, Sekiya M, Yahagi N, Suzuki H, Sone H, Nakagawa Y, Yamada N, Shimano H (2016) Intestinal CREBH overexpression prevents high-cholesterol diet-induced hypercholesterolemia by reducing Npc1l1 expression. *Mol. Metab.* 5(11): 1092-1102. doi:10.1016/j.molmet.2016.09.004
28. Kikuchi M, Shimada M, Matsuzaka T, Ishii K, Nakagawa Y, Takayanagi M, Yamada N, Shimano H (2016) Crucial Role of Elovf6 in Chondrocyte Growth and Differentiation during Growth Plate Development in Mice. *PLoS One* 11(7): e0159375. doi:10.1371/journal.pone.0159375
29. Suzuki-Kemuriyama N, Matsuzaka T, Kuba M, Ohno H, Han S, Takeuchi Y, Isaka M, Kobayashi K, Iwasaki H, Yatoh S, Suzuki H, Miyajima K, Nakae D, Yahagi N, Nakagawa Y, Sone H, Yamada N, Shimano H (2016) Different Effects of Eicosapentaenoic and Docosahexaenoic Acids on Atherogenic High-Fat Diet-Induced Non-Alcoholic Fatty Liver Disease in Mice. *PLoS One* 11(6): e0157580. doi:10.1371/journal.pone.0157580
30. Nakagawa Y, Oikawa F, Mizuno S, Ohno H, Yagishita Y, Satoh A, Osaki Y, Takei K, Kikuchi T, Han S, Matsuzaka T, Iwasaki H, Kobayashi K, Yatoh S, Yahagi N, Isaka M, Suzuki H, Sone H, Takahashi S, Yamada N, Shimano H (2016) Hyperlipidemia and hepatitis in liver-specific CREB3L3 knockout mice generated using a one-step CRISPR/Cas9 system. *Sci Rep* 6: 27857. doi:10.1038/srep27857
31. Suzuki K, Miyamoto T, Miyamoto M, Maeda H, Nokura K, Tohyama J, Hirata K, Shimizu T, Kanbayashi T (2016) Hypocretin-1 levels in the cerebrospinal fluid of patients with Percheron artery infarction with or without midbrain involvement A case series. *Medicine(Baltimore)* 95(29): e4281. doi:10.1097/MD.0000000000004281
32. Omokawa M, Ayabe T, Nagai T, Imanishi A, Omokawa A, Nishino S, Sagawa Y, Shimizu T, Kanbayashi T (2016) Decline of CSF Orexin (Hypocretin) Levels in Prader-Willi Syndrome. *Am. J. Med. Genet. A* 170(5): 1181-1186. doi:10.1002/ajmg.a.37542
33. Ogawa Y, Irukayama-Tomobe Y, Murakoshi N, Kiyama M, Ishikawa Y, Hosokawa N, Tominaga H, Uchida S, Kimura S, Kanuka M, Morita M, Hamada M, Takahashi S, Hayashi Y, Yanagisawa M (2016) Peripherally administered orexin improves survival of mice with endotoxin shock. *eLife* 5: e21055. doi:10.7554/eLife.21055
34. Khoa LTP, Azami T, Tsukiyama T, Matsushita J, Tsukiyama-Fujii S, Takahashi S, Ema M (2016) Visualization of the Epiblast and Visceral Endodermal Cells Using Fgf5-P2A-Venus BAC Transgenic Mice and Epiblast Stem Cells. *PLoS One* 11(7): e0159246. doi:10.1371/journal.pone.0159246
35. Hasegawa Y, Hoshino Y, Ibrahim AE, Kato K, Daitoku Y, Tanimoto Y, Ikeda Y, Oishi H, Takahashi S, Yoshiki A, Yagami K, Iseki H, Mizuno S, Sugiyama F (2016) Generation of CRISPR/Cas9-mediated bicistronic knock-in ins1-cre driver mice. *Exp. Anim.* 65 (3): 319-327. doi:10.1538/expainm.16-0016
36. Al-Soudy AS, Nakanishi T, Mizuno S, Hasegawa Y, Shawki HH, Katoh MC, Basha WA, Ibrahim AE, El-Shemy HA, Iseki H, Yoshiki A, Hiromori Y, Nagase H, Takahashi S, Oishi H, Sugiyama F (2016) Germline recombination in a novel Cre transgenic line, Prl3b1-Cre mouse. *Genesis* 54(7): 389-397. doi:10.1002/dvg.22944
37. Tran MTN, Hamada M, Nakamura M, Jeon H, Kamei R, Tsunakawa Y, Kulathunga K, Lin YY, Fujisawa K, Kudo T, Takahashi S (2016) MafB deficiency accelerates the development of obesity in mice. *FEBS Open Bio* 6(6): 540-547. doi:10.1002/2211-5463.12058
38. Daassi D, Hamada M, Jeon H, Imamura Y, Tran MTN, Takahashi S (2016) Differential expression patterns of MafB and c-Maf in macrophages in vivo and in vitro. *Biochem. Biophys. Res. Commun.* 473(1): 118-124. doi:10.1016/j.bbrc.2016.03.063

39. Jeon H, Waku T, Azami T, Khoa LTP, Yanagisawa J, Takahashi S, Ema M (2016) Comprehensive Identification of Kruppel-Like Factor Family Members Contributing to the Self-Renewal of Mouse Embryonic Stem Cells and Cellular Reprogramming. *PLoS One* 11(3): e0150715. doi:10.1371/journal.pone.0150715
40. Abdellatif AM, Oishi H, Itagaki T, Jung YS, Shawki HH, Okita Y, Hasegawa Y, Suzuki H, El-Morsy SE, El-Sayed MA, Shoaib MB, Sugiyama F, Takahashi S (2016) beta-Cell-Specific Mafk Overexpression Impairs Pancreatic Endocrine Cell Development. *PLoS One* 11(2): e0150010. doi:10.1371/journal.pone.0150010
41. Matsuyama M, Ishii Y, Sakurai H, Ano S, Morishima Y, Yoh K, Takahashi S, Ogawa K, Hizawa N (2016) Overexpression of ROR gamma t Enhances Pulmonary Inflammation after Infection with Mycobacterium Avium. *PLoS One* 11(1): e0147064. doi:10.1371/journal.pone.0147064
42. Kida T, Ayabe S, Omori K, Nakamura T, Maehara T, Aritake K, Urade Y, Murata T (2016) Prostaglandin D-2 Attenuates Bleomycin-Induced Lung Inflammation and Pulmonary Fibrosis. *PLoS One* 11(12): e0167729. doi:10.1371/journal.pone.0167729
43. Nakamura Y, Midorikawa T, Monoi N, Kimura E, Murata-Matsuno A, Sano T, Oka K, Sugafuji T, Uchiyama A, Murakoshi M, Sugiyama K, Nishino H, Urade Y (2016) Oral administration of Japanese sake yeast (*Saccharomyces cerevisiae* sake) promotes non-rapid eye movement sleep in mice via adenosine A(2A) receptors. *J. Sleep Res.* 25(6): 746-753. doi:10.1111/jsr.12434
44. Monoi N, Matsuno A, Nagamori Y, Kimura E, Nakamura Y, Oka K, Sano T, Midorikawa T, Sugafuji T, Murakoshi M, Uchiyama A, Sugiyama K, Nishino H, Urade Y (2016) Japanese sake yeast supplementation improves the quality of sleep: a double-blind randomised controlled clinical trial. *J. Sleep Res.* 25(1): 116-123. doi:10.1111/jsr.12336
45. Reinhard JR, Kriz A, Galic M, Angliker N, Rajalu M, Vogt KE, Ruegg MA (2016) The calcium sensor Copine-6 regulates spine structural plasticity and learning and memory. *Nat. Commun.* 7: 11613. doi:10.1038/ncomms11613
46. Hyndman KA, Dugas C, Arguello AM, Goodchild TT, Buckley KM, Burch M, Yanagisawa M, Pollock JS (2016) High salt induces autocrine actions of ET-1 on inner medullary collecting duct NO production via upregulated ETB receptor expression. *Am. J. Physiol.-Regul. Integr. Comp. Physiol.* 311(2): R263-R271. doi:10.1152/ajpregu.00016.2015
47. Sato Y, Mii A, Hamazaki Y, Fujita H, Nakata H, Masuda K, Nishiyama S, Shibuya S, Haga H, Ogawa O, Shimizu A, Narumiya S, Kaisho T, Arita M, Yanagisawa M, Miyasaka M, Sharma K, Minato N, Kawamoto H, Yanagita M (2016) Heterogeneous fibroblasts underlie age-dependent tertiary lymphoid tissues in the kidney. *JCI Insight* 1(11): e87860. doi:10.1172/jci.insight.87680
48. Akashi K, Saegusa J, Sendo S, Nishimura K, Okano T, Yagi K, Yanagisawa M, Emoto N, Morinobu A (2016) Knockout of endothelin type B receptor signaling attenuates bleomycin-induced skin sclerosis in mice. *Arthritis Res. Ther.* 18(1): 113. doi:10.1186/s13075-016-1011-4
49. Yoon S, Garipey CE, Yanagisawa M, Zuccarello M, Rapoport RM (2016) Functional ETA-ETB Receptor Cross-talk in Basilar Artery In Situ From ETB Receptor Deficient Rats. *J. Cardiovasc. Pharmacol.* 67(3): 212-217. doi:10.1097/FJC.0000000000000335
50. Kutsumura N, Numata K, Saito T (2016) First total synthesis of haplacutine C. *Tetrahedron Lett.* 57(50): 5581-5583. doi:10.1016/j.tetlet.2016.10.070
51. Rennie YK, McIntyre PJ, Akindele T, Bayliss R, Jamieson AG (2016) A TPX2 Proteomimetic Has Enhanced Affinity for Aurora-A Due to Hydrocarbon Stapling of a Helix. *ACS Chem. Biol.* 11(12): 3383-3390. doi:10.1021/acscchembio.6b00727

52. Ioka S, Saitoh T, Maki SA, Imoto M, Nishiyama S (2016) Development of a luminescence-controllable firefly luciferin analogue using selective enzymatic cyclization. *Tetrahedron* 72(47): 7505-7508. doi:10.1016/j.tet.2016.09.069
53. Honda T, Lee CY, Honjo K, Furukubo-Tokunaga K (2016) Artificial Induction of Associative Olfactory Memory by Optogenetic and Thermogenetic Activation of Olfactory Sensory Neurons and Octopaminergic Neurons in *Drosophila* Larvae. *Front. Behav. Neurosci.* 10: 137. doi:10.3339/fnbeh.2016.00137
54. Ioka S, Saitoh T, Iwano S, Suzuki K, Maki SA, Miyawaki A, Imoto M, Nishiyama S (2016) Synthesis of Firefly Luciferin Analogues and Evaluation of the Luminescent Properties. *Chem.-Eur. J.* 22(27): 9330-9337. doi:10.1002/chem.201600278
55. Ardianto C, Yonemochi N, Yamamoto S, Yang L, Takenoya F, Shioda S, Nagase H, Ikeda H, Kamei J (2016) OPIOID SYSTEMS IN THE LATERAL HYPOTHALAMUS REGULATE FEEDING BEHAVIOR THROUGH OREXIN AND GABA NEURONS. *Neuroscience* 320(183): 193 doi: 10.1016/j.neuroscience.2016.02.002

## 2.) Review articles

56. Kanda T, Tsujino N, Kuramoto E, Koyama Y, Susaki EA, Chikahisa S, Funato H (2016) Sleep as a biological problem: an overview of frontiers in sleep research. *J. Physiol. Sci* 66(1): 1-13. doi:10.1007/s12576-015-0414-3
57. Saito T, Kobayashi S, Otani T, Kutsumura N (2016) Development of Synthetic Methodologies for Heterocycles Using Diene-transmissive Hetero-Diels-Alder Reaction. *J. Synth. Org. Chem. Jpn.* 74(8): 803-813. doi:10.5059/yukigoseikyokaisi.74.803

## 3.) Proceedings

58. Ikeda H, Ardianto C, Yonemochi N, Yamamoto S, Yang LZ, Takenoya F, Shioda S, Nagase H, Kamei J (2016) Hypothalamic opioid receptors control feeding behavior through orexin and GABA Neurons. *Int. J. Neuropsychopharmacol.* 19(Suppl\_1): 57. doi:10.1093/ijnp/pyw044.706
59. Sakurai T (2016) Neural Circuits of Orexin Neurons: Interface of Systems of Emotion, Energy Homeostasis and Arousal. *Int. J. Neuropsychopharmacol.* 19: 325
60. Lazarus M, Oishi Y (2016) Why do we fall asleep when bored? - The role of the nucleus accumbens in sleep-wake regulation. *J. Sleep Res.* 25(1:SI): 94-94.

## B. WPI-related papers

### 1.) Original articles

61. Zhang SY, Xu M, Chang WC, Ma CY, Do JPH, Jeong D, Lei T, Fan JL, Dan Y (2016) Organization of long-range inputs and outputs of frontal cortex for top-down control. *Nat. Neurosci.* 19(12): 1733-1742 doi:10.1038/nn.4417
62. Do JP, Xu M, Lee SH, Chang WC, Zhang SY, Chung S, Yung TJ, Fan JL, Miyamichi K, Luo LQ, Dan Y (2016) Cell type-specific long-range connections of basal forebrain circuit. *eLife* 5: e13214. doi:10.7554/eLife.13214
63. Poo MM, Pignatelli M, Ryan TJ, Tonegawa S, Bonhoeffer T, Martin KC, Rudenko A, Tsai LH, Tsien RW, Fishell G, Mullins C, Goncalves JT, Shtrahman M, Johnston ST, Gage FH, Dan Y, Long J, Buzsaki G, Stevens C (2016) What is memory? The present state of the engram. *BMC Biol.* 14:40. doi:10.1186/s12915-016-0261-6

64. Harrison TC, Pinto L, Brock JR, Dan Y (2016) Calcium Imaging of Basal Forebrain Activity during Innate and Learned Behaviors. *Front. Neural Circuits* 10:36. doi:10.3389/fncir.2016.00036
65. Liu L, She L, Chen M, Liu TY, Lu HDD, Dan Y, Poo MM (2016) Spatial structure of neuronal receptive field in awake monkey secondary visual cortex (V2). *Proc. Natl. Acad. Sci. U.S.A.* 113(7): 1913-1918. doi:10.1073/pnas.1525505113
66. Cox J, Pinto L, Dan Y (2016) Calcium imaging of sleep-wake related neuronal activity in the dorsal pons. *Nat. Commun.* 7: 10763. doi:10.1038/ncomms10763
67. Ushiki A, Matsuzaki H, Ishida J, Fukamizu A, Tanimoto K (2016) Long-Range Control of Renin Gene Expression in Tsukuba Hypertensive Mice. *PLoS One* 11(11): e0166974. doi:10.1371/journal.pone.0166974
68. Daitoku H, Kaneko Y, Yoshimochi K, Matsumoto K, Araoi S, Sakamaki J, Takahashi Y, Fukamizu A (2016) Nontranscriptional Function of FOXO1/DAF-16 Contributes to Translesion DNA Synthesis. *Mol. Cell. Biol.* 36(21): 2755-2766. doi:10.1128/MCB.00265-16
69. Sasaki T, Tanaka Y, Kulkeaw K, Yumine-Takai A, Tan KS, Nishinakamura R, Ishida J, Fukamizu A, Sugiyama D (2016) Embryonic Intra-Aortic Clusters Undergo Myeloid Differentiation Mediated by Mesonephros-Derived CSF1 in Mouse. *Stem Cell Rev. Rep.* 12(5): 530-542. doi:10.1007/s12015-016-9668-2
70. Egashira Y, Takase M, Watanabe S, Ishida J, Fukamizu A, Kaneko R, Yanagawa Y, Takamori S (2016) Unique pH dynamics in GABAergic synaptic vesicles illuminates the mechanism and kinetics of GABA loading. *Proc. Natl. Acad. Sci. U.S.A.* 113(38): 10702-10707. doi:10.1073/pnas.1604527113
71. Doura T, Kamiya M, Obata F, Yamaguchi Y, Hiyama TY, Matsuda T, Fukamizu A, Noda M, Miura M, Urano Y. (2016) Detection of LacZ-Positive Cells in Living Tissue with Single-Cell Resolution. *Angew. Chem.-Int. Edit.* 55(33): 9619-9623. doi:10.1002/anie.201603328
72. Kaneko Y, Daitoku H, Komeno C, Fukamizu A (2016) CTF18 interacts with replication protein A in response to replication stress. *Mol. Med. Rep.* 14(1): 367-372. doi:10.3892/mmr.2016.5262
73. Waku T, Nakajima Y, Yokoyama W, Nomura N, Kako K, Kobayashi A, Shimizu T, Fukamizu A (2016) NML-mediated rRNA base methylation links ribosomal subunit formation to cell proliferation in a p53-dependent manner. *J. Cell Sci.* 129(12): 2382-2393. doi:10.1242/jcs.183723
74. Murata K, Ishida J, Ishimaru T, Mizukami H, Hamada J, Saito C, Fukamizu A (2016) Lactation Is a Risk Factor of Postpartum Heart Failure in Mice with Cardiomyocyte-specific Apelin Receptor (APJ) Overexpression. *J. Biol. Chem.* 291(21): 11241-11251. doi:10.1074/jbc.M115.699009
75. Itoh Y, Fuchino H, Sanosaka M, Kako K, Hada K, Fukamizu A, Takemori H, Kawahara N (2016) Pteroin B has multiple targets in gluconeogenic programs, including coenzyme Q in ROR alpha-SRC2 signaling. *Biochem. Biophys. Res. Commun.* 473(2): 415-420. doi:10.1016/j.bbrc.2016.03.016
76. Shimbo M, Kudo T, Hamada M, Jeon H, Imamura Y, Asano K, Okada R, Tsunakawa Y, Mizuno S, Yagami K, Ishikawa C, Li HY, Shiga T, Ishida J, Hamada J, Murata K, Ishimaru T, Hashimoto M, Fukamizu A, Yamane M, Ikawa M, Morita H, Shinohara M, Asahara H, Akiyama T, Akiyama N, Sasanuma H, Yoshida N, Zhou R, Wang YY, Ito T, Kokubu Y, Noguchi TAK, Ishimine H, Kurisaki A, Shiba D, Mizuno H, Shirakawa M, Ito N, Takeda S, Takahashi S (2016) Ground-based assessment of JAXA mouse habitat cage unit by mouse phenotypic studies. *Exp. Anim.* 65(2): 175-187. doi:10.1538/expanim.15-0077
77. Toma-Fukai S, Kim JD, Parka KE, Kuwabara N, Shimizu N, Krayukhina E, Uchiyama S, Fukamizu A, Shimizu T (2016) Novel helical assembly in arginine methyltransferase 8. *J. Mol. Biol.* 428(6): 1197-1208 doi:10.1016/j.jmb.2016.02.007
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