

List of Publications in 2019

WPI papers

(1) Original Articles

1. Chang YH, Nishimura S, Oishi H, Kelly VP, Kuno A, Takahashi S (2019) TRMT2A is a novel cell cycle regulator that suppresses cell proliferation. *Biochem Biophys Res Commun* **508**(2): 410-415. doi:10.1016/j.bbrc.2018.11.104
2. Fujii S, Kaushik MK, Zhou XZ, Korkutata M, Lazarus M (2019) Acute social defeat stress increases sleep in mice. *Front Neurosci* **13**. doi:10.3389/fnins.2019.00322
3. Fujimori K, Aritake K, Oishi Y, Nagata N, Maehara T, Lazarus M, Urade Y (2019) L-PGDS-produced PGD(2) in premature, but not in mature, adipocytes increases obesity and insulin resistance. *Sci Rep* **9**. doi:10.1038/s41598-018-38453-y
4. Furuse T, Mizuma H, Hirose Y, Kushida T, Yamada I, Miura I, Masuya H, Funato H, *et al.* (2019) A new mouse model of GLUT1 deficiency syndrome exhibits abnormal sleep-wake patterns and alterations of glucose kinetics in the brain. *Dis Model Mech* **12**(9). doi:10.1242/dmm.038828
5. Hada K, Hirota K, Inanobe A, Kako K, Miyata M, Araoi S, Matsumoto M, Ohta R, *et al.* (2019) Tricarboxylic acid cycle activity suppresses acetylation of mitochondrial proteins during early embryonic development in *Caenorhabditis elegans*. *J Biol Chem* **294**(9): 3091-3099. doi:10.1074/jbc.RA118.004726
6. Hori D, Oi Y, Ohtaki Y, Andrea CS, Takahashi T, Shiraki N, Ikeda T, Ikeda Y, *et al.* (2019) Association between flourishing mental health and occupational stress among workers of Tsukuba Science City, Japan: a cross-sectional study. *Environ Health Prev* **24**(1). doi:10.1186/s12199-019-0823-7
7. Hori D, Takao S, Kawachi I, Ohtaki Y, Andrea CS, Takahashi T, Shiraki N, Ikeda T, *et al.* (2019) Relationship between workplace social capital and suicidal ideation in the past year among employees in Japan: a cross-sectional study. *BMC Public Health* **19**. doi:10.1186/s12889-019-7244-9
8. Imanishi A, Kanbayashi T, Sagawa Y, Taniguchi T, Usumoto A, Yuge K, Kotorii N, Kinoshita T, *et al.* (2019) Normal CSF orexin levels in the patients with hypersomnolence following HPV vaccination. *Sleep Biol Rhythms* **17**(2): 259-261. doi:10.1007/s41105-019-00210-7
9. Kakizaki M, Tsuneoka Y, Takase K, Kim SJ, Choi J, Ikkyu A, Abe M, Sakimura K, Yanagisawa M, Funato H (2019) Differential roles of each orexin receptor signaling in obesity. *iScience* **20**: 1-13. doi:10.1016/j.isci.2019.09.003
10. Kanemaru K, Noguchi E, Tahara-Hanaoka S, Mizuno S, Tateno H, Denda-Nagai K, Irimura T, Matsuda H, *et al.* (2019) Clec10a regulates mite-induced dermatitis. *Sci Immunol* **4**(42). doi:10.1126/sciimmunol.aax6908
11. Kawai H, Takaki M, Sakamoto S, Shibata T, Tsuchida A, Yoshimura B, Yada Y, Matsumoto N, *et al.* (2019) Anti-NMDA-receptor antibody in initial diagnosis of mood disorder. *Eur Neuropsychopharmacol* **29**(9): 1041-1050. doi:10.1016/j.euroneuro.2019.07.137
12. Kitamura S, Takahashi M, Mishima K (2019) Sleep problem but not chronotype is associated with retirement from shift work: a cross-sectional retrospective study. *Sleep Biol Rhythms* **17**(3): 331-337. doi:10.1007/s41105-019-00221-4
13. Kodani S, Soya S, Sakurai T (2019) Optogenetic manipulation of neural circuits during monitoring sleep/wakefulness states in mice. *J Vis Exp* (148). doi:10.3791/58613
14. Korkutata M, Saitoh T, Cherasse Y, Ioka S, Duo F, Qin RJ, Murakoshi N, Fujii S, *et al.* (2019) Enhancing endogenous adenosine A(2A) receptor signaling induces slow-wave sleep without affecting body

- temperature and cardiovascular function. *Neuropharmacology* **144**: 122-132. doi:10.1016/j.neuropharm.2018.10.022
15. Kutsumura N, Inagaki M, Kiriseko A, Saito T (2019) Total synthesis of 3-epi-Juruenolide C. *Chem Pharm Bull* **67**(6): 594-598. doi:10.1248/cpb.c19-00209
 16. Kutsumura N, Numata K, Mosaki S, Saito T (2019) Total synthesis of haplacutines B and C. *Heterocycles* **99**(1): 614-624. doi:10.3987/COM-18-S(F)7
 17. Lu WZ, Kim JD, Tabara S, Kwon C, Mizukami H, Kimura K, Fukamizu A (2019) The N-terminal sequence of murine PRMT5 variant 2 is required for Hsp70 interaction and CHIP ligase-mediated degradation. *Biochem Biophys Res Commun* **514**(4): 1185-1191. doi:10.1016/j.bbrc.2019.05.077
 18. Matsubara T, Suzuki K, Kawasaki A, Miyamoto M, Okamura M, Kanbayashi T, Takekawa H, Nakamura T, *et al.* (2019) Sudden onset of sleep caused by hypothalamic infarction: a case report. *BMC Neurol* **19**(1). doi:10.1186/s12883-019-1414-3
 19. Miyagawa T, Hida A, Shimada M, Uehara C, Nishino Y, Kadotani H, Uchiyama M, Ebisawa T, *et al.* (2019) A missense variant in PER2 is associated with delayed sleep-wake phase disorder in a Japanese population. *J Hum Genet* **64**(12): 1219-1225. doi:10.1038/s10038-019-0665-6
 20. Miyoshi C, Kim SJ, Ezaki T, Ikkyu A, Hotta-Hirashima N, Kanno S, Kakizaki M, Yamada M, *et al.* (2019) Methodology and theoretical basis of forward genetic screening for sleep/wakefulness in mice. *Proc Natl Acad Sci U.S.A.* **116**(32): 16062-16067. doi:10.1073/pnas.1906774116
 21. Mizukami H, Kim JD, Tabara S, Lu WZ, Kwon C, Nakashima M, Fukamizu A (2019) KDM5D-mediated H3K4 demethylation is required for sexually dimorphic gene expression in mouse embryonic fibroblasts. *J Biochem* **165**(4): 335-342. doi:10.1093/jb/mvy106
 22. Morita E, Kadomatsu Y, Tsukamoto M, Kubo Y, Okada R, Sasakabe T, Kawai S, Hishida A, Naito M, Wakai K (2019) Frequency of forest walking is not associated with prevalence of hypertension based on cross-sectional studies of a general Japanese population: a reconfirmation by the J-MICC Daiko Study. *Nagoya J Med Sci* **81**(3): 489-500. doi:10.18999/nagjms.81.3.489
 23. Nagano K, Kwon C, Ishida J, Hashimoto T, Kim JD, Kishikawa N, Murao M, Kimura K, *et al.* (2019) Cooperative action of APJ and alpha 1A-adrenergic receptor in vascular smooth muscle cells induces vasoconstriction. *J Biochem* **166**(5): 383-392. doi:10.1093/jb/mvz071
 24. Nakahara K, Naba K, Saitoh T, Sugai T, Obata R, Nishiyama S, Einaga Y, Yamamoto T (2019) Electrochemical pinacol coupling of acetophenone using boron-doped diamond electrode. *ChemElectroChem* **6**(16): 4153-4157. doi:10.1002/celec.201900202
 25. Ogata H, Kayaba M, Tanaka Y, Yajima K, Iwayama K, Ando A, Park I, Kiyono K, *et al.* (2019) Effect of skipping breakfast for 6 days on energy metabolism and diurnal rhythm of blood glucose in young healthy Japanese males. *Am J Clin Nutr* **110**(1): 41-52. doi:10.1093/ajcn/nqy346
 26. Ohtaki Y, Doki S, Kaneko H, Hirai Y, Oi Y, Sasahara S, Matsuzaki I (2019) Relationship between suicidal ideation and family problems among young callers to the Japanese crisis hotline. *PLoS One* **14**(7). doi:10.1371/journal.pone.0220493
 27. Ono H, Kanbayashi T, Imanishi A, Ayabe T, Sagawa Y, Tsutsui K, Ohmori Y, Takeshima M, Nishino S, Shimizu T (2019) Clinical characteristics of symptomatic narcolepsy or hypersomnia: an analysis of 182 consecutive cases with neurological disorders associated with hypersomnolence. *Sleep Biol Rhythms* **17**(1): 123-140. doi:10.1007/s41105-018-0186-2
 28. Saitoh T, Seki K, Nakajima R, Yamamoto N, Kutsumura N, Nagumo Y, Irukayama-Tomobe Y, Ogawa Y, *et al.* (2019) Essential structure of orexin 1 receptor antagonist YNT-707, Part IV: The role of D-ring in 4,5-epoxymorphinan on the orexin 1 receptor antagonistic activity. *Bioorg Med Chem Lett* **29**(18):

2655-2658. doi:10.1016/j.bmcl.2019.07.039

29. Schutz B, Ruppert AL, Strobel O, Lazarus M, Urade Y, Buchler MW, Weihe E (2019) Distribution pattern and molecular signature of cholinergic tuft cells in human gastro-intestinal and pancreatic-biliary tract. *Sci Rep* **9**. doi:10.1038/s41598-019-53997-3
30. Seol J, Fujii Y, Park I, Suzuki Y, Kawana F, Yajima K, Fukusumi S, Okura T, *et al.* (2019) Distinct effects of orexin receptor antagonist and GABA(A) agonist on sleep and physical/cognitive functions after forced awakening. *Proc Natl Acad Sci U.S.A.* **116**(48): 24353-24358. doi:10.1073/pnas.1907354116
31. Sharma R, Matsuzaka T, Kaushik MK, Sugawara T, Ohno H, Wang YN, Motomura K, Shimura T, *et al.* (2019) Octacosanol and policosanol prevent high-fat diet-induced obesity and metabolic disorders by activating brown adipose tissue and improving liver metabolism. *Sci Rep* **9**. doi:10.1038/s41598-019-41631-1
32. Srinivasan S, Hosokawa T, Vergara P, Cherasse Y, Naoi T, Sakurai T, Sakaguchi M (2019) Miniaturized microscope with flexible light source input for neuronal imaging and manipulation in freely behaving animals. *Biochem Biophys Res Commun* **517**(3): 520-524. doi:10.1016/j.bbrc.2019.07.082
33. Sugiyama A, Yamada M, Furuie H, Gotoh L, Saitoh A, Nagase H, Oka JI, Yamada M (2019) Systemic administration of a delta opioid receptor agonist, KNT-127, facilitates extinction learning of fear memory in rats. *J Pharmacol Sci* **139**(3): 174-179. doi:10.1016/j.jphs.2019.01.002
34. Takahashi T, Hori D, Ikeda T, Ikeda Y, Shiraki N, Andrea CS, Ohtaki Y, Doki S, *et al.* (2019) Non-Regular Employment Status Is Associated with Psychological Distress among Young Researchers: A Cross-Sectional Study in Tsukuba, Japan. *Tohoku J Exp Med* **249**(1): 57-64. doi:10.1620/tjem.249.57
35. Tanimura J, Nakagawa H, Tanake T, Kikuchi A, Osada S, Tanaka Y, Tokuyama K, Takamura T (2019) The clinical course and potential underlying mechanisms of everolimus-induced hyperglycemia. *Endocr J* **66**(7): 615-620. doi:10.1507/endocrj.EJ18-0542
36. Tsunakawa Y, Hamada M, Matsunaga Y, Fuseya S, Jeon H, Wakimoto Y, Usui T, Kanai M, *et al.* (2019) Mice harboring an MCTO mutation exhibit renal failure resembling nephropathy in human patients. *Exp Anim* **68**(1): 103-111. doi:10.1538/expanim.18-0093
37. Watanabe C, Matsushita J, Azami T, Tsukiyama-Fujii S, Tsukiyama T, Mizuno S, Takahashi S, Ema M (2019) Generating Vegfr3 reporter transgenic mouse expressing membrane-tagged Venus for visualization of VEGFR3 expression in vascular and lymphatic endothelial cells. *PLoS One* **14**(1). doi:10.1371/journal.pone.0210060
38. Watanabe T, Miyajima M, Ohta K, Yoshida N, Omoya R, Fujiwara M, Suzuki Y, Murata I, *et al.* (2019) Predicting postictal suppression in electroconvulsive therapy using analysis of heart rate variability. *J Affect Disord* **246**: 355-360. doi:10.1016/j.jad.2018.12.090
39. Xiafukaiti G, Maimaiti S, Ogata K, Kuno A, Kudo T, Shawki HH, Oishi H, Takahashi S (2019) MafB is important for pancreatic β -cell maintenance under a MafA deficient condition. *Mol Cell Biol* **39**(17). doi:10.1128/MCB.00080-19
40. Yamabe M, Horie K, Shiokawa H, Funato H, Yanagisawa M, Kitagawa H (2019) MC-SleepNet: Large-scale Sleep Stage Scoring in Mice by Deep Neural Networks. *Sci Rep* **9**. doi:10.1038/s41598-019-51269-8
41. Yamada D, Yanagisawa S, Yoshizawa K, Yanagita S, Oka JI, Nagase H, Saitoh A (2019) Selective agonists of the delta-opioid receptor, KNT-127 and SNC80, act differentially on extinction learning of contextual fear memory in mice. *Neuropharmacology* **160**. doi:10.1016/j.neuropharm.2019.107792
42. Yamamoto N, Ohru S, Okada T, Saitoh T, Kutsumura N, Nagumo Y, Irukayama-Tomobe Y, Ogawa Y, *et al.* (2019) Essential structure of orexin 1 receptor antagonist YNT-707, part III: Role of the 14-

hydroxy and the 3-methoxy groups in antagonistic activity toward the orexin 1 receptor in YNT-707 derivatives lacking the 4,5-epoxy ring. *Bioorg Med Chem* **27**(8): 1747-1758. doi:10.1016/j.bmc.2019.03.010

43. Yasugaki S, Liu CY, Kashiwagi M, Kanuka M, Honda T, Miyata S, Yanagisawa M, Hayashi Y (2019) Effects of 3 weeks of water immersion and restraint stress on sleep in mice. *Front Neurosci* **13**. doi:10.3389/fnins.2019.01072
44. Yata M, Kutsumura N, Nagumo Y, Yamamoto N, Saitoh T, Ishikawa Y, Irukayama-Tomobe Y, Yanagisawa M, Nagase H (2019) A novel rearrangement reaction of morphinan to arylmorphinan skeletons and the pharmacologies of arylmorphinan derivatives. *Heterocycles* **99**(1): 134-144. doi:10.3987/COM-18-S(F)53
45. Zhang Y, Sugai T, Yamamoto T, Yamamoto N, Kutsumura N, Einaga Y, Nishiyama S, Saitoh T, Nagase H (2019) Oxidative cleavage of the acyl-carbon bond in ohenylacetone with electrogenerated superoxide anions. *ChemElectroChem* **6**(16): 4194-4198. doi:10.1002/celec.201801308
46. Zhang Z, Liu WY, Diao YP, Xu W, Zhong YH, Zhang JY, Lazarus M, Liu YY, Qu WM, Huang AL (2019) Superior colliculus GABAergic neurons are essential for acute dark induction of wakefulness in mice. *Curr Biol* **29**(4): 637-644. doi:10.1016/j.cub.2018.12.031
47. Zhou XZ, Oishi Y, Cherasse Y, Korkutata M, Fujii S, Lee CY, Lazarus M (2019) Extracellular adenosine and slow-wave sleep are increased after ablation of nucleus accumbens core astrocytes and neurons in mice. *Neurochem Int* **124**: 256-263. doi:10.1016/j.neuint.2019.01.020

(2) Review Articles

48. Barton M, Yanagisawa M (2019) Endothelin: 30 years from discovery to therapy. *Hypertension* **74**(6): 1232-1265. doi:10.1161/HYPERTENSIONAHA.119.12105
49. Fifel K, Videnovic A (2019) Chronotherapies for Parkinson's disease. *Prog Neurobiol* **174**: 16-27. doi:10.1016/j.pneurobio.2019.01.002
50. Kako K, Kim JD, Fukamizu A (2019) Emerging impacts of biological methylation on genetic information. *J Biochem* **165**(1): 9-18. doi:10.1093/jb/mvy075
51. Koyanagi I, Akers KG, Vergara P, Srinivasan S, Sakurai T, Sakaguchi M (2019) Memory consolidation during sleep and adult hippocampal neurogenesis. *Neural Regen Res* **14**(1): 20-23. doi:10.4103/1673-5374.243695
52. Lazarus M, Oishi Y, Bjorness TE, Greene RW (2019) Gating and the need for sleep: dissociable effects of adenosine A(1) and A(2A) receptors. *Front Neurosci* **13**. doi:10.3389/fnins.2019.00740
53. Mhatre PH, Karthik C, Kadirvelu K, Divya KL, Venkatasalam EP, Srinivasan S, Ramkumar G, Saranya C, Shanmuganathan R (2019) Plant growth promoting rhizobacteria (PGPR): A potential alternative tool for nematodes bio-control. *Biocatal Agric Biotechnol* **17**: 119-128. doi:10.1016/j.bcab.2018.11.009
54. Mizunoe Y, Kobayashi M, Tagawa R, Nakagawa Y, Shimano H, Higami Y (2019) Association between lysosomal dysfunction and obesity-related pathology: a key knowledge to prevent metabolic syndrome. *Int J Mol Sci* **20**(15). doi:10.3390/ijms20153688
55. Takaesu Y, Utsumi T, Okajima I, Shimura A, Kotorii N, Kuriyama K, Yamashita H, Suzuki M, Watanabe N, Mishima K (2019) Psychosocial intervention for discontinuing benzodiazepine hypnotics in patients with chronic insomnia: A systematic review and meta-analysis. *Sleep Med Rev* **48**. doi:10.1016/j.smrv.2019.101214

(3) Proceedings

56. Bjorness TE, Greene RW (2019) Conditional knockout of adenosine a1 receptors occludes sleep deprivation-induced enhancement of conditioned place preference. *Sleep* **42**.

57. Imanishi A, Kanbayashi T, Omori Y, Kazuhisa Y, Tsutsui K, Ono T, Mishima K (2019) Patients with developmental disorders (adhd and asd) accompany with hypersomnolence have normal orexin levels. *Sleep* **42**.

(4) Other English Articles

58. Fifel K (2019) Neuropathology of circadian alterations in Parkinson disease. *JAMA Neurol* **76**(1): 115-115. doi:10.1001/jamaneurol.2018.3755
59. Korkutata M, Saitoh T, Cherasse Y, Ioka S, Duo F, Qin RJ, Murakoshi N, Fujii S, *et al.* (2019) Enhancing endogenous adenosine A(2A) receptor signaling induces slow-wave sleep without affecting body temperature and cardiovascular function (vol 144, pg 122, 2019). *Neuropharmacology* **153**: 153-153. doi:10.1016/j.neuropharm.2019.04.027

WPI-related papers

(1) Original articles

60. Beytebiere JR, Trott AJ, Greenwell B, Osborne CA, Vitet H, Spence J, Yoo SH, Chen Z, *et al.* (2019) Tissue-specific BMAL1 cisromes reveal that rhythmic transcription is associated with rhythmic enhancer-enhancer interactions. *Genes Dev* **33**: 294-309. doi:10.1101/gad.322198.118
61. Cedernaes J, Huang WY, Ramsey KM, Waldeck N, Cheng L, Marcheva B, Omura C, Kobayashi Y, *et al.* (2019) Transcriptional basis for rhythmic control of hunger and metabolism within the AgRP neuron. *Cell Metab* **29**(5): 1078-1091. doi:10.1016/j.cmet.2019.01.023
62. de Groot MHM, Castorena CM, Cox KH, Kumar V, Mohawk JA, Ahmed NI, Takahashi JS (2019) A novel mutation in Slc2a4 as a mouse model of fatigue. *Genes Brain Behav* **18**(8). doi:10.1111/gbb.12578
63. Doi M, Shimatani H, Atobe Y, Murai I, Hayashi H, Takahashi Y, Fustin JM, Yamaguchi Y, *et al.* (2019) Non-coding cis-element of Period2 is essential for maintaining organismal circadian behaviour and body temperature rhythmicity. *Nat Commun* **10**. doi:10.1038/s41467-019-10532-2
64. Ghandour K, Ohkawa N, Fung CCA, Asai H, Saitoh Y, Takekawa T, Okubo-Suzuki R, Soya S, *et al.* (2019) Orchestrated ensemble activities constitute a hippocampal memory engram. *Nat Commun* **10**. doi:10.1038/s41467-019-10683-2
65. Hamada Y, Takata T, Kawakita R, Kobara H, Okada M, Tamiya T, Kanbayashi T, Touge T, Deguchi K, Masaki T (2019) Orexin secretion abnormality involved in excessive somnolence in CNS lymphoma without hypothalamic lesions. *J Clin Neurosci* **64**: 6-7. doi:10.1016/j.jocn.2019.03.066
66. Kikuchi YS, Kanbayashi T, Shimizu T (2019) Relationship between clozapine-induced electroencephalogram abnormalities and serum concentration of clozapine in Japanese patients with treatment-resistant schizophrenia. *Psychiatry Investig* **16**(4): 279-284. doi:10.30773/pi.2018.12.16
67. Kishi T, Ikuta T, Matsui Y, Inada K, Matsuda Y, Mishima K, Iwata N (2019) Effect of discontinuation v. maintenance of antipsychotic medication on relapse rates in patients with remitted/stable first-episode psychosis: a meta-analysis. *Psychol Med* **49**(5): 772-779. doi:10.1017/S0033291718001393
68. Le PT, Bornstein SA, Motyl KJ, Tian L, Stubblefield JJ, Hong HK, Takahashi JS, Green CB, Rosen CJ, Guntur AR (2019) A novel mouse model overexpressing Nocturnin results in decreased fat mass in male mice. *J Cell Physiol* **234**: 20228-20239. doi:10.1002/jcp.28623
69. Mohawk JA, Cox KH, Sato M, Yoo SH, Yanagisawa M, Olson EN, Takahashi JS (2019) Neuronal myocyte-specific enhancer factor 2d (mef2d) is required for normal circadian and sleep behavior in mice. *J Neurosci* **39**(40): 7958-7967. doi:10.1523/JNEUROSCI.0411-19.2019

70. Murayama Y, Yahagi N, Takeuchi Y, Aita Y, Saber ZM, Wada N, Li EX, Piao XY, *et al.* (2019) Glucocorticoid receptor suppresses gene expression of Rev-erb alpha (Nr1d1) through interaction with the CLOCK complex. *FEBS Lett* **593**(4): 423-432. doi:10.1002/1873-3468.13328
71. Nohara K, Mallampalli V, Nemkov T, Wirianto M, Yang J, Ye YQ, Sun YX, Han L, *et al.* (2019) Nobiletin fortifies mitochondrial respiration in skeletal muscle to promote healthy aging against metabolic challenge. *Nat Commun* **10**. doi:10.1038/s41467-019-11926-y
72. Onder Y, Laothamatas I, Berto S, Sewart K, Kilaru G, Bordieanu B, Stubblefield JJ, Konopka G, Mishra P, Green CB (2019) The circadian protein nocturnin regulates metabolic adaptation in brown adipose tissue. *iScience* **19**: 83-92. doi: 10.1016/j.sici.2019.07.16
73. Osawa T, Fujihara K, Harada M, Yamamoto M, Ishizawa M, Suzuki H, Ishiguro H, Matsubayashi Y, *et al.* (2019) Higher pulse pressure predicts initiation of dialysis in Japanese patients with diabetes. *Diabetes-Metab Res Rev* **35**(3). doi:10.1002/dmrr.3120
74. Qin RJ, Murakoshi N, Xu DZ, Tajiri K, Feng D, Stujanna EN, Yonebayashi S, Nakagawa Y, *et al.* (2019) Exercise training reduces ventricular arrhythmias through restoring calcium handling and sympathetic tone in myocardial infarction mice. *Physiol Rep* **7**(4). doi:10.14814/phy2.13972
75. Sasako T, Ohsugi M, Kubota N, Itoh S, Okazaki Y, Terai A, Kubota T, Yamashita S, *et al.* (2019) Hepatic Sdf2l1 controls feeding-induced ER stress and regulates metabolism. *Nat Commun* **10**. doi:10.1038/s41467-019-08591-6
76. Shichino S, Ueha S, Hashimoto S, Otsuji M, Abe J, Tsukui T, Deshimaru S, Nakajima T, *et al.* (2019) Transcriptome network analysis identifies protective role of the LXR/SREBP-1c axis in murine pulmonary fibrosis. *JCI Insight* **4**(1). doi:10.1172/jci.insight.122163
77. Shimura S, Watari H, Komatsu M, Kuchibiro T, Fukuda S, Nishio H, Kita M, Kida K, *et al.* (2019) Antimicrobial susceptibility surveillance of obligate anaerobic bacteria in the Kinki area. *J Infect Chemother* **25**(11): 837-844. doi:10.1016/j.jiac.2019.07.018
78. Tanimoto K, Matsuzaki H, Okamura E, Ushiki A, Fukamizu A, Engel JD (2019) Transvection-like interchromosomal interaction is not observed at the transcriptional level when tested in the Rosa26 locus in mouse. *PLoS One* **14**(2). doi:10.1371/journal.pone.0203099
79. Toda H, Williams JA, Gullede M, Sehgal A (2019) A sleep-inducing gene, *nemuri*, links sleep and immune function in *Drosophila*. *Science* **363**(6426). doi:10.1126/science.aat1650
80. Yang SZ, Siepka SM, Cox KH, Kumar V, de Groot M, Chelliah Y, Chen J, Tu B, Takahashi JS (2019) Tissue-specific FAH deficiency alters sleep-wake patterns and results in chronic tyrosinemia in mice. *Proc Natl Acad Sci USA* **116**(44): 22229-22236. doi:10.1073/pnas.1904485116
81. Yasuda K, Maki T, Takata M, Kimura K, Takahashi T, Kanbayashi T, Murase N, Ohtani R, Takahashi R, Nakamura M (2019) Bilateral oculomotor nerve palsy in a case of anti-aquaporin-4 antibody-positive neuromyelitis optica spectrum disorder. *J Clin Neurosci* **66**: 271-272. doi:10.1016/j.jocn.2019.05.043
82. Yoshitane H, Asano Y, Sagami A, Sakai S, Suzuki Y, Okamura H, Iwasaki W, Ozaki H, Fukada Y (2019) Functional D-box sequences reset the circadian clock and drive mRNA rhythms. *Commun Biol* **2**. doi:10.1038/s42003-019-0522-3
83. Zoltowski BD, Chelliah Y, Wickramaratne A, Jarocha L, Karki N, Xu W, Mouritsen H, Hore PJ, *et al.* (2019) Chemical and structural analysis of a photoactive vertebrate cryptochrome from pigeon. *Proc Natl Acad Sci USA* **116**(39): 19449-19457. doi:10.1073/pnas.1907875116

(2) Review articles

84. Bassetti CLA, Adamantidis A, Burdakov D, Han F, Gay S, Kallweit U, Khatami R, Koning F, *et al.* (2019) Narcolepsy - clinical spectrum, aetiopathophysiology, diagnosis and treatment. *Nat Rev Neurol* **15**(9): 519-539. doi:10.1038/s41582-019-0226-9
85. Cederroth CR, Albrecht U, Bass J, Brown SA, Dyhrfeld-Johnsen J, Gachon F, Green CB, Hastings MH, *et al.* (2019) Medicine in the fourth dimension. *Cell Metab* **30**(2): 238-250. doi:10.1016/j.cmet.2019.06.019
86. Cox KH, Takahashi JS (2019) Circadian clock genes and the transcriptional architecture of the clock mechanism. *J Mol Endocrinol* **63**(4): R93-R102. doi:10.1530/JME-19-0153
87. Fruchart JC, Santos RD, Aguilar-Salinas C, Aikawa M, Rasadi K, Amarenco P, Barter PJ, Ceska R, *et al.* (2019) The selective peroxisome proliferator-activated receptor alpha modulator (SPPARM) paradigm: conceptual framework and therapeutic potential: A consensus statement from the International Atherosclerosis Society (IAS) and the Residual Risk Reduction Initiative (R3i) Foundation. *Cardiovasc Diabetol* **18**. doi:10.1186/s12933-019-0864-7
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