

List of Publications FY 2018

A. WPI papers

1. Original Articles

- 1) Nakamura Y, Matsuzaka T, Tahara-Hanaoka S, Shibuya K, Shimano H, Nakahashi-Oda C, Shibuya A (2018) Elovf6 regulates mechanical damage-induced keratinocyte death and skin inflammation. *Cell Death & Disease* 9:1181. doi:10.1038/s41419-018-1226-1
- 2) Bjorness TE, Greene RW (2018) Sleep deprivation alters the time course but not magnitude of locomotor sensitization to cocaine. *Sci Rep.* **8**:17672. doi:10.1038/s41598-018-36002-1
- 3) Miyagawa T, Khor SS, Toyoda H, Kanbayashi T, Mishima K, Honda M, Tokunaga K et al. (2018) A variant at 9q34.11 is associated with HLA-DQB1*06:02 negative essential hypersomnia. *J. Hum. Genet.* **63**(12):1259-1267 doi:10.1038/s10038-018-0518-8
- 4) Saito YC, Tsujino N, Abe M, Yamazaki M, Sakimura K, Sakurai T (2018) Serotonergic Input to Orexin Neurons Plays a Role in Maintaining Wakefulness and REM Sleep Architecture. *Front Neurosci.* **12**:892 doi:10.3389/fnins.2018.00892
- 5) Takata Y, Oishi Y, Zhou XZ, Hasegawa E, Takahashi K, Cherasse Y, Sakurai T, Lazarus M (2018) Sleep and Wakefulness Are Controlled by Ventral Medial Midbrain/Pons GABAergic Neurons in Mice. *J Neurosci.* **38**(47):10080-10092. doi:10.1523/JNEUROSCI.0598-18.2018
- 6) Azami T, Matsumoto K, Jeon H, Waku T, Muratani M, Niwa H, Takahashi S, Ema M (2018) Klf5 suppresses ERK signaling in mouse pluripotent stem cells. *PLoS One* **13**(11):e0207321 doi:10.1371/journal.pone.0207321
- 7) Saitoh A, Soda A, Kayashima S, Yoshizawa K, Oka JI, Nagase H, Yamada M (2018) A delta opioid receptor agonist, KNT-127, in the prelimbic medial prefrontal cortex attenuates glial glutamate transporter blocker-induced anxiety-like behavior in mice. *J Pharmacol Sci.* **138**(3):176-183. doi:10.1016/j.jphs.2018.09.009
- 8) Kaushik MK, Aritake K, Cherasse Y, Sharma R, Urade Y (2018) A gain-of-function study of amelioration of pentylenetetrazole-induced seizures by endogenous prostaglandin D-2 *Neurosci Lett.* **686**:140-144. doi:10.1016/j.neulet.2018.09.011
- 9) Kutsumura N, Nagase H (2018) Unique Reactions of Morphinan Skeletons and Conversions of the Skeletons to Active Alkaloids. *J Syn Org Chem Jpn.* [Japanese: 有機合成化学協会誌] **76**(9):914-921. doi:10.5059/yukigoseikyokaishi.76.914
- 10) Kutsumura N, Okada T, Imaide S, Fujii H, Nagase H (2018) Acetic Anhydride Mediated Retro-Ene Reaction via a [4.4.3]Propellane Skeleton Intermediate Containing a Quaternary Ammonium Linkage. *Synthesis-Stuttgart* **50**(21):4263-4269. 10.1055/s-0036-1589138
- 11) Zhang Y, Sugai T, Yamamoto T, Yamamoto N, Kutsumura N, Nishiyama S, Einaga Y, Saitoh T, Nagase H (2018) Oxidative Cleavage of the Acyl-Carbon Bond in Phenylacetone with Electrogenerated Superoxide Anions. *ChemElectroChem.* **5**. 10.1002/celec.201801308.
- 12) Kuwano N, Kato TA, Mitsuhashi M, Sato-Kasai M, Shimokawa N, Hayakawa K, Ohgidani M, Sagata N, Kubo H, Sakurai T, Kanba S (2018) Neuron-related blood inflammatory markers as an objective evaluation tool for major depressive disorder: An exploratory pilot case-control study. *J Affect Disorders.* **240**:88-98. doi:10.1016/j.jad.2018.07.040

- 13) Murata K, Lu WZ, Hashimoto M, Ono N, Muratani M, Nishikata K, Kim JD, Ebihara S, Ishida J, Fukamizu A (2018) PRMT1 Deficiency in Mouse Juvenile Heart Induces Dilated Cardiomyopathy and Reveals Cryptic Alternative Splicing Products. *iScience*. **8**:200-+. doi:10.1016/j.isci.2018.09.023
- 14) Sakikubo M, Furuyama K, Horiguchi M, Hosokawa S, Aoyama Y, Tsuboi K, Goto T, Hirata K, Masui T, Dor Y, Fujiyama T, Hoshino M, Uemoto S, Kawaguchi Y (2018) Ptf1a inactivation in adult pancreatic acinar cells causes apoptosis through activation of the endoplasmic reticulum stress pathway. *Sci Rep*. **8**:15812. doi:10.1038/s41598-018-34093-4
- 15) Cherasse Y, Aritake K, Oishi Y, Kaushik MK, Korkutata M, Urade Y (2018) The Leptomeninges Produce Prostaglandin D-2 Involved in Sleep Regulation in Mice. *Front Cell Neurosci*. **12**:357. doi:10.3389/fncel.2018.00357
- 16) Honda T, Fujiyama T, Miyoshi C, Ikkyu A, Hotta-Hirashima N, Kanno S, Mizuno S, Sugiyama F, Takahashi S, Funato H, Yanagisawa M (2018) A single phosphorylation site of SIK3 regulates daily sleep amounts and sleep need in mice *Proc Natl Acad Sci USA*. **115**(41):10458-10463. doi:10.1073/pnas.1810823115
- 17) Sugiyama, A, Yamada M, Saitoh A, Nagase H, Oka JI, Yamada M (2018) Administration of a delta opioid receptor agonist KNT-127 to the basolateral amygdala has robust anxiolytic-like effects in rats. *Psychopharmacology*. **235**(10):2947-2955. doi:10.1007/s00213-018-4984-7
- 18) Kulathunga K, Hamada M, Hiraishi Y, Otake M, Tran MTN, Cheng O, Tanaka J, Sakasai T, Sakaguchi S, Sugiyama Y, Fleischmann BK, Takahashi S, Miwa Y (2018) A Novel iRFP-Incorporated in vivo Murine Atherosclerosis Imaging System. *Sci Rep*. **8**:14515. doi: 10.1038/s41598-018-32456-5
- 19) Kutsumura N, Kiriseko A, Niwa K, Saito T (2018) Total Syntheses of 3-epi-Litsenolide D-2 and Lincomolide A. *J Org Chem*. **83**(18):11450-11457. doi:10.1021/acs.joc.8b01825
- 20) Mochizuki A, Nakayama K, Nakamura S, Dantsuji M, Kamiyo R, Shioda S, Sakurai T, Ozeki M, Inoue T (2018) Involvement of orexin in lipid accumulation in the liver. *J Oral Sci*. **60**(3):76-82. doi:10.1016/j.job.2018.07.001
- 21) Takaya D, Inaka K, Omura, A, Takenuki K, Kawanishi M, Yabuki Y, Nakagawa Y, Tsuganezawa K, Ogawa N, Watanabe C, Honma T, Aritake K, Urade Y, Shirouzu M, Tanaka A (2018) Characterization of crystal water molecules in a high-affinity inhibitor and hematopoietic prostaglandin D synthase complex by interaction energy studies. *Bioorgan Med Chem*. **26**(16):4726-4734. doi:10.1016/j.bmc.2018.08.014
- 22) Niwa Y, Kanda GN, Yamada RG, Shi S, Sunagawa GA, Ukai-Tadenuma M, Fujishima H, Matsumoto N, Masumoto K, Nagano M, Kasukawa T, Galloway J, Perrin D, Shigeyoshi Y, Ukai H, Kiyonari H, Sumiyama K, Ueda HR (2018) Muscarinic Acetylcholine Receptors Chrm1 and Chrm3 Are Essential for REM Sleep. *Cell Reports*. **24**(9):2231. doi:10.1016/j.celrep.2018.07.082
- 23) Iwasaki K, Komiya H, Kakizaki M, Miyoshi C, Abe M, Sakimura K, Funato H, Yanagisawa M (2018) Ablation of Central Serotonergic Neurons Decreased REM Sleep and Attenuated Arousal Response. *Front Neurosci*. **12**:535. doi:10.3389/fnins.2018.00535
- 24) Shinohara R, Taniguchi M, Ehrlich AT, Yokogawa K, Deguchi Y, Cherasse Y, Lazarus M, Urade Y, Ogawa A, Kitaoka S, Sawas A, Narumiya S, Furuyashiki T (2018) Dopamine D1 receptor subtype mediates acute stress-induced dendritic growth in excitatory neurons of the medial prefrontal cortex and contributes to suppression of stress susceptibility in mice. *Mol Psychiatry*. **23**(8):1717-1730. doi:10.1038/mp.2017.177
- 25) Sato Y, Tsukaguchi H, Takahashi S, Yoshimura A et al. (2018) A mutation in transcription factor MAFB causes Focal Segmental Glomerulosclerosis with Duane Retraction Syndrome. *Kidney Int*. **94**(2):396-407. doi:10.1016/j.kint.2018.02.025

- 26) Yoshida S, Ohnishi R, Tsuneoka Y, Yamamoto-Mimura Y, Muramatsu R, Kato T, Funato H, Kuroda KO (2018) Corticotropin-Releasing Factor Receptor 1 in the Anterior Cingulate Cortex Mediates Maternal Absence-Induced Attenuation of Transport Response in Mouse Pups. *Front Cell Neurosci.* **12**:204. doi:10.3389/fncel.2018.00204
- 27) Saito YC, Maejima T, Nishitani M, Hasegawa E, Yanagawa Y, Mieda M, Sakurai T (2018) Monoamines Inhibit GABAergic Neurons in Ventrolateral Preoptic Area That Make Direct Synaptic Connections to Hypothalamic Arousal Neurons. *J Neurosci.* **38**(28):6366-6378. doi:10.1523/JNEUROSCI.2835-17.2018
- 28) Fujiyama T, Miyashita S, Tsuneoka Y, Kanemaru K, Kakizaki M, Kanno S, Ishikawa Y, Yamashita M, Owa T, Nagaoka M, Kawaguchi Y, Yanagawa Y, Magnuson MA, Muratani M, Shibuya A, Nabeshima Y, Yanagisawa M, Funato H, Hoshino M (2018) Forebrain Ptf1a Is Required for Sexual Differentiation of the Brain. *Cell Reports* **24**(1):79-94. doi:10.1016/j.celrep.2018.06.010
- 29) Araki M, Nakagawa Y, Oishi A, Han S, Wang Y, Kumagai K, Ohno H, Mizunoe Y, Iwasaki H, Sekiya M, Matsuzaka T, Shimano H (2018) The Peroxisome Proliferator-Activated Receptor alpha (PPAR alpha) Agonist Pemafibrate Protects against Diet-Induced Obesity in Mice. *Int J Mol Sci.* **19**(7):2148. doi:10.3390/ijms19072148
- 30) Furukawa S, Suzuki H, Fujihara K, Kobayashi K, Iwasaki H, Sugano Y, Yatoh S, Sekiya M, Yahagi N, Shimano H (2018) Malondialdehyde-modified LDL-related variables are associated with diabetic kidney disease in type 2 diabetes. *Diabetes Res Clin Pract.* **141**:237-243. doi:10.1016/j.diabres.2018.05.019
- 31) Wang ZQ, Ma J, Miyoshi C, Lie YX, Sato M, Ogawa Y, Lou TT, Ma CY, Gao X, Lee C, Fujiyama T, Yang XJ, Zhou S, Hotta-Hirashima N, Klewe-Nebenius D, Ikkyu A, Kakizaki M, Kanno S, Cao LQ, Takahashi S, Peng JM, Yu YH, Funato H, Yanagisawa M, Liu QH (2018) Quantitative phosphoproteomic analysis of the molecular substrates of sleep need. *Nature.* **558**(7710):435-439. doi:10.1038/s41586-018-0218-8
- 32) Yajima K, Iwayama K, Ogata H, Park I, Tokuyama K (2018) Meal rich in rapeseed oil increases 24-h fat oxidation more than meal rich in palm oil. *PLoS One.* **13**(6):e0198858. doi:10.1371/journal.pone.0198858
- 33) Kaushik MK, Aritake K, Imanishi A, Kanbayashi T, Ichikawa T, Shimizu T, Urade Y, Yanagisawa M (2018) Continuous intrathecal orexin delivery inhibits cataplexy in a murine model of narcolepsy. *Proc Natl Acad Sci USA.* **23**:6046-6051. doi:10.1073/pnas.1722686115
- 34) Schoonakker M, Meijer JH, Deboer T, Fifel K (2018) Heterogeneity in the circadian and homeostatic modulation of multiunit activity in the lateral hypothalamus. *Sleep.* **41**(6): zsy051. doi:10.1093/sleep/zsy051
- 35) Ohno H, Matsuzaka T, Tang N, Sharma R, Motomura K, Shimura T, Satoh A, Han S, Takeuchi Y, Aita Y, Iwasaki H, Yatoh S, Suzuki H, Sekiya M, Nakagawa Y, Sone H, Yahagi N, Yamada N, Higami Y, Shimano H (2018) Transgenic Mice Overexpressing SREBP-1a in Male ob/ob Mice Exhibit Lipodystrophy and Exacerbate Insulin Resistance. *Endocrinology.* **159**(6):2308-2323. doi:10.1210/en.2017-03179
- 36) Oda S, Tsuneoka Y, Yoshida S, Adachi-Akahane S, Ito M, Kuroda M, Funato H (2018) Immunolocalization of muscarinic M1 receptor in the rat medial prefrontal cortex. *J Comp Neurol.* **526**(8):1329-1350. doi:10.1002/cne.24409
- 37) Anacleit C, De Luca R, Venner A, Malyshevskaya O, Lazarus M, Arrigoni E, Fuller PM (2018) Genetic Activation, Inactivation, and Deletion Reveal a Limited And Nuanced Role for Somatostatin-Containing Basal Forebrain Neurons in Behavioral State Control. *J Neurosci.* **38**(22):5168-5181. doi:10.1523/JNEUROSCI.2955-17.2018

- 38) Honjoh S, Sasai S, Schiereck SS, Nagai H, Tononi G, Cirelli C (2018) Regulation of cortical activity and arousal by the matrix cells of the ventromedial thalamic nucleus. *Nat Commun.* **9**:2100. doi:10.1038/s41467-018-04497-x
- 39) Bjorness TE, Greene RW (2018) Dose response of acute cocaine on sleep/waking behavior in mice. *Neurobiol Sleep Circadian Rhythms.* **5**:84-93. doi:10.1016/j.nbscr.2018.02.001
- 40) Wang YB, Cao LQ, Lee CY, Matsuo T, Wu KJ, Asher G, Tang LJ, Saitoh T, Russell J, Klewe-Nebenius D, Wang L, Soya S, Hasegawa E, Cherasse Y, Zhou JM, Li YWB, Wang T, Zhan XW, Miyoshi C, Irukayama Y, Cao J, Meeks JP, Gautron L, Wang ZQ, Sakurai K, Funato H, Sakurai T, Yanagisawa M, Nagase H, Kobayakawa R, Kobayakawa K, Beutler B, Liu QH (2018) Large-scale forward genetics screening identifies *Trpa1* as a chemosensor for predator odor-evoked innate fear behaviors. *Nat Commun.* **9**:2041. doi:10.1038/s41467-018-04324-3
- 41) Fifel K, Meijer JH, Deboer T (2018) Circadian and Homeostatic Modulation of Multi-Unit Activity in Midbrain Dopaminergic Structures. *Sci Rep.* **8**:7765. doi:10.1038/s41598-018-25770-5
- 42) Yamamoto Y, Takei K, Arulmozhiraja S, Sladek V, Matsuo N, Han SI, Matsuzaka T, Sekiya M, Tokiwa T, Shoji M, Shigeta Y, Nakagawa Y, Tokiwa H, Shimano H (2018) Molecular association model of PPAR alpha and its new specific and efficient ligand, pemafibrate: Structural basis for SPPARM alpha. *Biochem Biophys Res Commun.* **499**(2):239-245. doi:10.1016/j.bbrc.2018.03.135
- 43) Oshima T, Miyashita H, Ishimura Y, Ito Y, Tanaka Y, Hori A, Kokubo T, Kurokawa T (2018) Fc engineering of anti-Nectin-2 antibody improved thrombocytopenic adverse event in monkey. *PLoS One.* **13**(5):e0196422. doi:10.1371/journal.pone.0196422
- 44) Toyama S, Shimoyama N, Tagaito Y, Nagase H, Saitoh T, Yanagisawa M, Shimoyama M (2018) Nonpeptide Orexin-2 Receptor Agonist Attenuates Morphine-induced Sedative Effects in Rats. *Anesthesiology.* **128**(5):992-1003. doi:10.1097/ALN0000000000002161
- 45) Steiner N, Rossetti C, Sakurai T, Yanagisawa M, de Lecea L, Magistretti PJ, Halfon O, Boutrel B (2018) Hypocretin/orexin deficiency decreases cocaine abuse liability. *Neuropharmacology.* **133**:395-403. doi:10.1016/j.neuropharm.2018.02.010
- 46) Luo YJ, Li YD, Wang L, Yang SR, Yuan XS, Wang J, Cherasse Y, Lazarus M, Chen JF, Qu WM, Huang ZL (2018) Nucleus accumbens controls wakefulness by a subpopulation of neurons expressing dopamine D-1 receptors. *Nat Commun.* **9**:1576. doi:10.1038/s41467-018-03889-3
- 47) Yang SR, Hu ZZ, Luo YJ, Zhao YN, Sun HX, Yin D, Wang CY, Yan YD, Wang DR, Yuan XS, Ye CB, Guo W, Qu WM, Cherasse Y, Lazarus M, Ding YQ, Huang ZL (2018) The rostromedial tegmental nucleus is essential for non-rapid eye movement sleep. *PLoS Biol.* **16**(4): e2002909. doi:10.1371/journal.pbio.2002909
- 48) Katoh MC, Jung YS, Ugboma CM, Shimbo M, Kuno A, Basha WA, Kudo T, Oishi H, Takahashi S (2018) MafB Is Critical for Glucagon Production and Secretion in Mouse Pancreatic alpha Cells In Vivo. *Mol Cell Biol.* **38**(8): e00504-17. doi:10.1128/MCB.00504-17
- 49) Saitoh A, Tominaga H, Ogawa Y, Irukayama-Tomobe Y, Yamada M, Yanagisawa M, Nagase H (2018) Effects of the delta opioid receptor agonist KNT-127 on electroencephalographic activity in mice. *Pharmacol Rep.* **70**(2):350-354. doi:10.1016/j.pharep.2017.08.018
- 50) Monma T, Ando A, Asanuma T, Yoshitake Y, Yoshida G, Miyazawa T, Ebine N, Takeda S, Omi N, Satoh M, Tokuyama K, Takeda F (2018) Sleep disorder risk factors among student athletes. *Sleep Med.* **44**(76):76-81. doi:10.1016/j.sleep.2017.11.1130

- 51) Yamamoto T, Akahori M, Natsui K, Saitoh T, Einaga Y (2018) Controlled decoration of boron-doped diamond electrodes by electrochemical click reaction (e-CLICK). *Carbon*. **130**:350-354. doi:10.1016/j.carbon.2017.12.098
- 52) Kitada N, Saitoh T, Ikeda Y, Iwano S, Obata R, Niwa H, Hirano T, Miyawaki A, Suzuki K, Nishiyama S, Maki SA (2018) Toward bioluminescence in the near-infrared region: Tuning the emission wavelength of firefly luciferin analogues by allyl substitution. *Tetrahedron Lett*. **59**(12):1087-1090. doi:10.1016/j.tetlet.2018.01.078
- 53) Yamamoto T, Riehl B, Naba, K, Nakahara K, Wiebe A, Saitoh T, Waldvogel SR, Einaga Y (2018) A solvent-directed stereoselective and electrocatalytic synthesis of diisoeugenol. *Chem Commun* **54**(22):2771-2773. doi:10.1039/c8cc00794b
- 54) Kutsumura N, Koyama Y, Suzuki Y, Tominaga K, Yarnarnoto N, Saitoh T, Nagumo Y, Nagase H (2018) Favorskii-Type Rearrangement of the 4,5-Epoxy-morphinan Skeleton. *Org Lett*. **20**(6):1559-1562. doi:10.1021/acs.orglett.8b00288
- 55) Kaida K, Abe T (2018) Attentional lapses are reduced by repeated stimuli having own-name during a monotonous task. *PLoS One*. **13**(3): e0194065. doi:10.1371/journal.pone.0194065
- 56) Komiya H, Miyoshi C, Iwasaki K, Hotta-Hirashima N, Ikkyu A, Kanno S, Honda T, Gosho M, Hamada H, Satoh T, Fukamizu A, Funato H, Yanagisawa M (2018) Sleep/Wake Behaviors in Mice During Pregnancy and Pregnancy-Associated Hypertensive Mice. *Sleep*. **41**(3): zsx209. doi:10.1093/sleep/zsx209
- 57) Fox BM, Becker BK, Loria AS, Hyndman KA, Jin CH, Clark H, Johns R, Yanagisawa M, Pollock DM, Pollock JS (2018) Acute Pressor Response to Psychosocial Stress Is Dependent on Endothelium-Derived Endothelin-1. *J Am Heart Assoc*. **7**(4): e007863. doi:10.1161/JAHA.117.007863
- 58) Ikeda Y, Saitoh T, Niwa K, Nakajima T, Kitada N, Maki SA, Sato M, Citterio D, Nishiyama S, Suzuki K (2018) An allylated firefly luciferin analogue with luciferase specific response in living cells. *Chem Commun*. **54**(14):1774-1777. doi:10.1039/c7cc09720d
- 59) Ohru S, Yamamoto N, Saitoh T, Kutsumura N, Nagumo Y, Irukayama-Tomobe Y, Ogawa Y, Ishikawa Y, Watanabe Y, Hayakawa D, Gouda H, Yanagisawa M, Nagase H (2018) Essential structure of orexin 1 receptor antagonist YNT-707, Part II: Drastic effect of the 14-hydroxy group on the orexin 1 receptor antagonistic activity. *Bioorg Med Chem Lett*. **28**(4):774-777. doi:10.1016/j.bmcl.2017.12.069
- 60) Yuan XM, Tsujimoto K, Hashimoto K, Kawahori K, Hanzawa N, Hamaguchi M, Seki T, Nawa M, Ehara T, Kitamura Y, Hatada I, Konishi M, Itoh N, Nakagawa Y, Shimano H, Takai-Igarashi T, Kamei Y, Ogawa Y (2018) Epigenetic modulation of Fgf21 in the perinatal mouse liver ameliorates diet-induced obesity in adulthood. *Nat Commun*. **9**:636. doi:10.1038/s41467-018-03038-w
- 61) Garcia SV, Brischoux F, Clement O, Libourel PA, Arthaud S, Lazarus M, Luppi PH, Fort P (2018) Ventromedial medulla inhibitory neuron inactivation induces REM sleep without atonia and REM sleep behavior disorder. *Nat Commun*. **9**:504. doi:10.1038/s41467-017-02761-0
- 62) Jung YS, Zhou, RY, Kato T, Usui, JK, Muratani, M, Oishi H, Heck MMS, Takahashi S (2018) Isl1 beta Overexpression With Key beta Cell Transcription Factors Enhances Glucose-Responsive Hepatic Insulin Production and Secretion. *Endocrinology*. **159**(2):869-882. doi:10.1210/en.2017-00663
- 63) Tateno K, Ogawa R, Sakamoto R, Tsuchiya M, Kutsumura N, Otani T, Ono K, Kawai H, Saito T (2018) Dibenzopyrrolo[1,2-a][1,8]naphthyridines: Synthesis and Structural Modification of Fluorescent L-Shaped Heteroarenes. *J Org Chem*. **83**(2):690-702. doi:10.1021/acs.joc.7b02674

- 64) Saitoh A, Suzuki S, Soda A, Ohashi M, Yamada M, Oka JI, Nagase H, Yamada M (2018) The delta opioid receptor agonist KNT-127 in the prelimbic medial prefrontal cortex attenuates veratrine-induced anxiety-like behaviors in mice. *Behav Brain Res.* **336**:77-84. doi:10.1016/j.bbr.2017.08.041
- 65) Omori Y, Kanbayashi T, Sagawa Y, Imanishi A, Tsutsui K, Takahashi Y, Takeshima M, Takaki M, Nishino S, Shimizu T (2018) Low dose of aripiprazole advanced sleep rhythm and reduced nocturnal sleep time in the patients with delayed sleep phase syndrome: an open-labeled clinical observation. *Neuropsych Dis Treat.* **14**:1281-1286. doi:10.2147/NDT.S158865
- 66) Liguori G, Tafuri S, Miyoshi C, Yanagisawa M, Squillacioti C, De Pasquale V, Mirabella N, Vittoria A, Costagliola A (2018) Localization of orexin B and orexin-2 receptor in the rat epididymis. *ACTA Histochem.* **120**(3):292-297. doi:10.1016/j.acthis.2018.02.011
- 67) Omori Y, Kanbayashi T, Imanishi A, Tsutsui K, Sagawa Y, Kikuchi YS, Takeshima M, Yoshizawa K, Uemura S, Shimizu T (2018) Orexin/hypocretin levels in the cerebrospinal fluid and characteristics of patients with myotonic dystrophy type 1 with excessive daytime sleepiness. *Neuropsych Dis Treat.* **14**:451-457. doi:10.2147/NDT.S158651
- 68) Morito N, Yoh K, Usui T, Oishi H, Ojima M, Fujita A, Koshida R, Shawki HH, Hamada M, Muratani M, Yamagata K, Takahashi S (2018) Transcription factor MafB may play an important role in secondary hyperparathyroidism. *Kidney Int.* **93**(1):54-68. doi:10.1016/j.kint.2017.06.023
- 69) Owada Y, Tamura T, Tanoi T, Ozawa Y, Shimizu Y, Hisakura K, Matsuzaka T, Shimano H, Nakano N, Sakashita S, Matsukawa T, Isoda H, Ohkohchi N (2018) Novel non-alcoholic steatohepatitis model with histopathological and insulin-resistant feature. *Pathol Int.* **68**(1):12-22. doi:10.1111/pin.12612.
- 70) Ohshita R, Kutsumura N, Nagumo Y, Yamamoto N, Saitoh T, Hirayama S, Fujii H, Nagase H (2018) Synthesis of Novel 1,3-Dioxo-5-thiazatriquinane and 1-Oxa-3,5-dithiazatriquinane Derivatives and their Pharmacologies. *Heterocycles.* **97**:687-695. doi: 10.3987/COM-18-S(T)40

2. Review articles

- 71) Doki S, Sasahara S, Matsuzaki I (2018) Stress of working abroad: a systematic review. *Int Arch Occup Environ Health.* **91**(7):767-784. doi:10.1007/s00420-018-1333-4
- 72) Akers KG, Cherasse Y, Fujita Y, Srinivasan S, Sakurai T, Sakaguchi M (2018) Concise Review: Regulatory Influence of Sleep and Epigenetics on Adult Hippocampal Neurogenesis and Cognitive and Emotional Function. *Stem Cells.* **36**(7):969-976. doi:10.1002/stem.2815
- 73) Nakagawa Y, Shimano H (2018) CREBH Regulates Systemic Glucose and Lipid Metabolism. *Int J Mol Sci.* **19**(5):1396. doi:10.3390/ijms19051396

3. Proceedings

- 74) Lazarus M. (2018) The gating of sleep by motivated behavior. *J Sleep Res.* **27**(1:SI):178.
- 75) Imanishi A, Ono T, Omori Y, Sagawa Y, Takahashi Y, Tsutsui K, Watanabe M, Kanbayashi T, Shimizu T (2018) INCREASING NUMBER OF CASES WHO HAD BOTH HYPERSOMNIA DISORDERS AND DEVELOPMENTAL DISORDERS, SUCH AS ATTENTION DEFICIT HYPERACTIVITY DISORDER (ADHD) AND AUTISM SPECTRUM DISORDER (ASD) IN JAPAN. *Sleep.* **41**(1):A232-A233
- 76) Ito SU, Kanbayashi T, Suzuki S, Ito A, Kimoto Y, Terui Y, Satake M, Shioya T, Shimizu T, Nishino S (2018)

SLEEP FACILITATION BY AN ARTIFICIALLY CARBONATED SPRING; BODY TEMPERATURE, EEG AND AUTONOMIC NERVOUS ACTIVITY EVALUATIONS. *Sleep*. **41**(1):A144-A145.

4. Other English articles

- 77) Kashiwagi M, Hayashi Y (2018) Life Without Dreams: Muscarinic Receptors Are Required to Regulate REM Sleep in Mice. *Cell Rep*. **24**(9):2211-2212. doi:10.1016/j.celrep.2018.08.044
- 78) Fifel K, Videnovic A (2018) Light Therapy in Parkinson's Disease: Towards Mechanism-Based Protocols. *Trends Neurosci*. **41**(5):252-254. doi:10.1016/j.tins.2018.03.002
- 79) Fifel K (2018) Readiness Potential and Neuronal Determinism: New Insights on Libet Experiment. *J Neurosci*. **38**(4):784-786. doi:10.1523/JNEUROSCI.3136-17.2017
- 80) Saitoh A, Nagase H (2018) Delta Opioid Receptor (DOR) Ligands and Pharmacology: Development of Indolo- and Quinolinomorphinan Derivatives Based on the Message-Address Concept. *Handb Exp Pharmacol*. **247**:3-19. doi:10.1007/164_2016_18

B. WPI-Related Papers

1. Original articles

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