

BRCP publication Japan side (2001-2018)

2001

Huang ZL, Qu WM, Li WD, Mochizuki T, Eguchi N, Watanabe T, Urade Y, Hayaishi O (2001) Arousal effect of orexin A depends on activation of the histaminergic system. *Proc Natl Acad Sci U S A* 98:9965-9970.

2002

Fetz EE, Perlmutter SI, Prut Y, Seki K, Votaw S (2002) Roles of primate spinal interneurons in preparation and execution of voluntary hand movement. *Brain Res Brain Res Rev* 40:53-65.

Fetz EE, Perlmutter SI, Prut Y, Seki K (2002) Functional properties of primate spinal interneurons during voluntary hand movements. *Adv Exp Med Biol* 508:265-271.

Kashiwagi K, Masuko T, Nguyen CD, Kuno T, Tanaka I, Igarashi K, Williams K (2002) Channel blockers acting at N-methyl-D-aspartate receptors: differential effects of mutations in the vestibule and ion channel pore. *Mol Pharmacol* 61:533-545.

Ozaki M, Hashikawa T, Ikeda K, Miyakawa Y, Ichikawa T, Ishihara Y, Kumanishi T, Yano R (2002) Degeneration of pontine mossy fibres during cerebellar development in weaver mutant mice. *Eur J Neurosci* 16:565-574.

Ozaki M (2002) Analysis of patterned neuronal impulses and function of neuregulin. *Neurosignals* 11:191-196.

Sakamaki K, Inoue T, Asano M, Sudo K, Kazama H, Sakagami J, Sakata S, Ozaki M, Nakamura S, Toyokuni S, Osumi N, Iwakura Y, Yonehara S (2002) Ex vivo whole-embryo culture of caspase-8-deficient embryos normalize their aberrant phenotypes in the developing neural tube and heart. *Cell Death Differ* 9:1196-1206.

2003

Huang ZL, Sato Y, Mochizuki T, Okada T, Qu WM, Yamatodani A, Urade Y, Hayaishi O (2003) Prostaglandin E2 activates the histaminergic system via the EP4 receptor to induce wakefulness in rats. *J Neurosci* 23:5975-5983.

Ohnishi H, Kondo Y, Sakuma Y (2003) Oestrogen-induced vigorous mounting in female rats carrying hypothalamic knife cuts. *J Neuroendocrinol* 15:602-606.

Seki K, Perlmutter SI, Fetz EE (2003) Sensory input to primate spinal cord is presynaptically inhibited during voluntary movement. *Nat Neurosci* 6:1309-1316.

Williams K, Dattilo M, Sabado TN, Kashiwagi K, Igarashi K (2003) Pharmacology of delta2 glutamate receptors: effects of pentamidine and protons. *J Pharmacol Exp Ther* 305:740-748.

Yamasue H, Kasai K, Iwanami A, Ohtani T, Yamada H, Abe O, Kuroki N, Fukuda R, Tochigi M, Furukawa S, Sadamatsu M, Sasaki T, Aoki S, Ohtomo K, Asukai N, Kato N (2003) Voxel-based analysis of MRI reveals anterior cingulate gray-matter volume reduction in posttraumatic stress disorder due to terrorism. *Proc Natl Acad Sci U S A* 100:9039-9043.

2004

Chu M, Huang ZL, Qu WM, Eguchi N, Yao MH, Urade Y (2004) Extracellular histamine level in the frontal cortex is positively correlated with the amount of wakefulness in rats. *Neurosci Res* 49:417-420.

Ivanov AI, Rovescalli AC, Pozzi P, Yoo S, Mozer B, Li HP, Yu SH, Higashida H, Guo V, Spencer M, Nirenberg M (2004) Genes required for *Drosophila* nervous system development identified by RNA interference. *Proc Natl Acad Sci U S A* 101:16216-16221.

Kashiwagi K, Tanaka I, Tamura M, Sugiyama H, Okawara T, Otsuka M, Sabado TN, Williams K, Igarashi K (2004) Anthraquinone polyamines: novel channel blockers to study N-methyl-D-aspartate receptors. *J Pharmacol Exp Ther* 309:884-893.

Nakahara H, Itoh H, Kawagoe R, Takikawa Y, Hikosaka O (2004) Dopamine neurons can represent context-dependent prediction error. *Neuron* 41:269-280.

Yoshida Y, Kinuta M, Abe T, Liang S, Araki K, Cremona O, Di Paolo G, Moriyama Y, Yasuda T, De Camilli P, Takei K (2004) The stimulatory action of amphiphysin on dynamin function is dependent on lipid bilayer curvature. *Embo J* 23:3483-3491.

2005

- Aoki C, Sekino Y, Hanamura K, Fujisawa S, Mahadomrongkul V, Ren Y, Shirao T (2005) Drebrin A is a postsynaptic protein that localizes in vivo to the submembranous surface of dendritic sites forming excitatory synapses. *J Comp Neurol* 483:383-402.
- Brown ER, Nishino A, Bone Q, Meinertzhagen IA, Okamura Y (2005) GABAergic synaptic transmission modulates swimming in the ascidian larva. *Eur J Neurosci* 22:2541-2548.
- Ikeda K, Ide S, Han W, Hayashida M, Uhl GR, Sora I (2005) How individual sensitivity to opiates can be predicted by gene analyses. *Trends Pharmacol Sci* 26:311-317.
- Katsuyama Y, Okada T, Matsumoto J, Ohtsuka Y, Terashima T, Okamura Y (2005) Early specification of ascidian larval motor neurons. *Dev Biol* 278:310-322.
- Miyamoto T, Morita K, Takemoto D, Takeuchi K, Kitano Y, Miyakawa T, Nakayama K, Okamura Y, Sasaki H, Miyachi Y, Furuse M, Tsukita S (2005) Tight junctions in Schwann cells of peripheral myelinated axons: a lesson from claudin-19-deficient mice. *J Cell Biol* 169:527-538.
- Mizui T, Takahashi H, Sekino Y, Shirao T (2005) Overexpression of drebrin A in immature neurons induces the accumulation of F-actin and PSD-95 into dendritic filopodia, and the formation of large abnormal protrusions. *Mol Cell Neurosci* 30:149-157.
- Murata Y, Iwasaki H, Sasaki M, Inaba K, Okamura Y (2005) Phosphoinositide phosphatase activity coupled to an intrinsic voltage sensor. *Nature* 435:1239-1243.
- Okamura Y, Nishino A, Murata Y, Nakajo K, Iwasaki H, Ohtsuka Y, Tanaka-Kunishima M, Takahashi N, Hara Y, Yoshida T, Nishida M, Okado H, Watari H, Meinertzhagen IA, Satoh N, Takahashi K, Satou Y, Okada Y, Mori Y (2005) Comprehensive analysis of the ascidian genome reveals novel insights into the molecular evolution of ion channel genes. *Physiol Genomics* 22:269-282.
- Richardson DC, Dale R (2005) Looking to understand: The coupling between speakers' and listeners' eye movements and its relationship to discourse comprehension. *Cogn Sci* 29:1045-1060.
- Sugiyama Y, Kawabata I, Sobue K, Okabe S (2005) Determination of absolute protein numbers in single synapses by a GFP-based calibration technique. *Nat Methods* 2:677-684.
- Takahashi H, Mizui T, Shirao T (2005) Down-regulation of drebrin A expression suppresses synaptic targeting of NMDA receptors in developing hippocampal neurones. *J Neurochem*.
- Ueki Y, Mima T, Oga T, Ikeda A, Hitomi T, Fukuyama H, Nagamine T, Shibasaki H (2005) Dominance of ipsilateral corticospinal pathway in congenital mirror movements. *J Neurol Neurosurg Psychiatry* 76:276-279.

2006

- Fujisawa S, Shirao T, Aoki C (2006) In vivo, competitive blockade of N-methyl-D-aspartate receptors induces rapid changes in filamentous actin and drebrin A distributions within dendritic spines of adult rat cortex. *Neuroscience* 140:1177-1187.
- Han W, Kasai S, Hata H, Takahashi T, Takamatsu Y, Yamamoto H, Uhl GR, Sora I, Ikeda K (2006) Intracisternal A-particle element in the 3' noncoding region of the mu-opioid receptor gene in CXBK mice: a new genetic mechanism underlying differences in opioid sensitivity. *Pharmacogenet Genomics* 16:451-460.
- Han W, Hata H, Imbe H, Liu QR, Takamatsu Y, Koizumi M, Murphy NP, Senba E, Uhl GR, Sora I, Ikeda K (2006) Increased body weight in mice lacking mu-opioid receptors. *Neuroreport* 17:941-944.
- Hikosaka O, Nakamura K, Nakahara H (2006) Basal ganglia orient eyes to reward. *J Neurophysiol* 95:567-584.
- Ide S, Minami M, Ishihara K, Uhl GR, Sora I, Ikeda K (2006) Mu opioid receptor-dependent and independent components in effects of tramadol. *Neuropharmacology* 51:651-658.
- Ide S, Kobayashi H, Ujike H, Ozaki N, Sekine Y, Inada T, Harano M, Komiyama T, Yamada M, Iyo M, Iwata N, Tanaka K, Shen H, Iwahashi K, Itokawa M, Minami M, Satoh M, Ikeda K, Sora I (2006) Linkage disequilibrium and association with methamphetamine dependence/psychosis of mu-opioid receptor gene polymorphisms. *Pharmacogenomics J* 6:179-188.
- Isa T, Ohki Y, Seki K, Alstermark B (2006) Properties of propriospinal neurons in the C3-C4 segments mediating disynaptic pyramidal excitation to forelimb motoneurons in the macaque monkey. *J Neurophysiol* 95:3674-3685.
- Jin L, Sugiyama H, Takigawa M, Katagiri D, Tomitori H, Nishimura K, Kaur N, Phanstiel Iv O, Kitajima M, Takayama H, Okawara T, Williams K, Kashiwagi K, Igarashi K (2006) Comparative Studies of Anthraquinone- and Anthracene-Tetraamines as Blockers of N-Methyl-D-Aspartate Receptors. *J Pharmacol Exp Ther*.

- Kimura Y, Okamura Y, Higashijima S (2006) *alx*, a zebrafish homolog of *Chx10*, marks ipsilateral descending excitatory interneurons that participate in the regulation of spinal locomotor circuits. *J Neurosci* 26:5684-5697.
- Kuriu T, Inoue A, Bito H, Sobue K, Okabe S (2006) Differential control of postsynaptic density scaffolds via actin-dependent and -independent mechanisms. *J Neurosci* 26:7693-7706.
- Miura K, Matsuura K, Taki M, Tabata H, Inaba N, Kawano K, Miles FA (2006) The visual motion detectors underlying ocular following responses in monkeys. *Vision Res* 46:869-878.
- Nakahara H, Nakamura K, Hikosaka O (2006) Extended LATER model can account for trial-by-trial variability of both pre- and post-processes. *Neural Netw* 19:1027-1046.
- Nakahara H, Morita K, Wurtz RH, Optican LM (2006) Saccade-related spread of activity across superior colliculus may arise from asymmetry of internal connections. *J Neurophysiol* 96:765-774.
- Sasaki M, Takagi M, Okamura Y (2006) A voltage sensor-domain protein is a voltage-gated proton channel. *Science* 312:589-592.
- Shirahata E, Iwasaki H, Takagi M, Lin C, Bennett V, Okamura Y, Hayasaka K (2006) Ankyrin-G regulates inactivation gating of the neuronal sodium channel, Nav1.6. *J Neurophysiol* 96:1347-1357.
- Takamatsu Y, Yamamoto H, Ogai Y, Hagino Y, Markou A, Ikeda K (2006) Fluoxetine as a potential pharmacotherapy for methamphetamine dependence: studies in mice. *Ann N Y Acad Sci* 1074:295-302.
- Teicher MH, Tomoda A, Andersen SL (2006) Neurobiological consequences of early stress and childhood maltreatment: are results from human and animal studies comparable? *Ann N Y Acad Sci* 1071:313-323.
- Wu HE, Sun HS, Terashivili M, Schwasinger E, Sora I, Hall FS, Uhl GR, Tseng LF (2006) dextro- and levo-morphine attenuate opioid delta and kappa receptor agonist produced analgesia in mu-opioid receptor knockout mice. *Eur J Pharmacol* 531:103-107.
- Yamada H, Shimoyama N, Sora I, Uhl GR, Fukuda Y, Moriya H, Shimoyama M (2006) Morphine can produce analgesia via spinal kappa opioid receptors in the absence of mu opioid receptors. *Brain Res* 1083:61-69.
- Yamashita M, Fukushima S, Shen HW, Hall FS, Uhl GR, Numachi Y, Kobayashi H, Sora I (2006) Norepinephrine transporter blockade can normalize the prepulse inhibition deficits found in dopamine transporter knockout mice. *Neuropsychopharmacology* 31:2132-2139.

2007

- Fukushima S, Shen H, Hata H, Ohara A, Ohmi K, Ikeda K, Numachi Y, Kobayashi H, Hall FS, Uhl GR, Sora I (2007) Methamphetamine-induced locomotor activity and sensitization in dopamine transporter and vesicular monoamine transporter 2 double mutant mice. *Psychopharmacology (Berl)* 193:55-62.
- Gepshtein S, Kubovy M (2007) The lawful perception of apparent motion. *J Vis* 7:1 - 15.
- Harburg GC, Hall FS, Harrist AV, Sora I, Uhl GR, Eisch AJ (2007) Knockout of the mu opioid receptor enhances the survival of adult-generated hippocampal granule cell neurons. *Neuroscience* 144:77-87.
- Job MO, Tang A, Hall FS, Sora I, Uhl GR, Bergeson SE, Gonzales RA (2007) Mu (mu) opioid receptor regulation of ethanol-induced dopamine response in the ventral striatum: evidence of genotype specific sexual dimorphic epistasis. *Biol Psychiatry* 62:627-634.
- Masuda N, Doiron B (2007) Gamma oscillations of spiking neural populations enhance signal discrimination. *PLoS Comput Biol* 3:e236.
- Numachi Y, Ohara A, Yamashita M, Fukushima S, Kobayashi H, Hata H, Watanabe H, Hall FS, Lesch KP, Murphy DL, Uhl GR, Sora I (2007) Methamphetamine-induced hyperthermia and lethal toxicity: role of the dopamine and serotonin transporters. *Eur J Pharmacol* 572:120-128.
- Ohtsuka Y, Okamura Y (2007) Voltage-dependent calcium influx mediates maturation of myofibril arrangement in ascidian larval muscle. *Dev Biol* 301:361-373.
- Takemura A, Murata Y, Kawano K, Miles FA (2007) Deficits in short-latency tracking eye movements after chemical lesions in monkey cortical areas MT and MST. *J Neurosci* 27:529-541.
- Yamamoto H, Kamegaya E, Hagino Y, Imai K, Fujikawa A, Tamura K, Enokiya T, Yamamoto T, Takeshima T, Koga H, Uhl GR, Ikeda K, Sora I (2007) Genetic deletion of vesicular monoamine transporter-2 (VMAT2) reduces dopamine transporter activity in mesencephalic neurons in primary culture. *Neurochem Int* 51:237-244.

2008

- Hill AS, Nishino A, Nakajo K, Zhang G, Fineman JR, Selzer ME, Okamura YC, E.C. (2008) Ion channel clustering at the axon initial segment and node of Ranvier evolved sequentially in early chordates. *PLoS Genet* 4:e1000317.
- Kojima Y, Iwamoto Y, Robinson FR, Noto CT, Yoshida K (2008) Premotor inhibitory neurons carry signals related to saccade adaptation in the monkey. *J Neurophysiol* 99:220-230.
- Nawa NE, Nelson EE, Pine DS, Ernst M (2008) Do you make a difference? Social context in a betting task. *Soc Cogn Affect Neurosci* 3:367-376.
- Perona MT, Waters S, Hall FS, Sora I, Lesch KP, Murphy DL, Caron M, Uhl GR (2008) Animal models of depression in dopamine, serotonin, and norepinephrine transporter knockout mice: prominent effects of dopamine transporter deletions. *Behav Pharmacol* 19:566-574.
- Uhl GR, Drgon T, Liu QR, Johnson C, Walther D, Komiyama T, Harano M, Sekine Y, Inada T, Ozaki N, Iyo M, Iwata N, Yamada M, Sora I, Chen CK, Liu HC, Ujike H, Lin SK (2008) Genome-wide association for methamphetamine dependence: convergent results from 2 samples. *Arch Gen Psychiatry* 65:345-355.

2009

- Gepshtein S (2009) Closing the gap between ideal and real behavior: Scientific vs. engineering approaches to normativity. *Philosophical Psychology* 22:61 - 75.
- Harada N, Wakatsuki T, Aste N, Yoshimura N, Honda SI (2009) Functional analysis of neurosteroidal oestrogen using gene-disrupted and transgenic mice. *J Neuroendocrinol* 21:365-369.
- Kawai T, Abe H, Wakabayashi K, Oka Y (2009) Calcium oscillations in the olfactory nonsensory cells of the goldfish, *Carassius auratus*. *Biochim Biophys Acta* 1790:1681-1688.
- Kawai T, Oka Y, Eisthen H (2009) The role of the terminal nerve and GnRH in olfactory system neuromodulation. *Zoolog Sci* 26:669-680.
- Tomoda A, Suzuki H, Rabi K, Sheu Y, Polcari A, Teicher M (2009) Reduced prefrontal cortical gray matter volume in young adults exposed to harsh corporal punishment. *NeuroImage* 30:66-71.
- Tomoda A, Navalta C, Polcari A, Sadato N, Teicher M (2009) Childhood sexual abuse is associated with reduced gray matter volume in visual cortex of young women. *Biological Psychiatry* 66: 642-648.
- Tsai CC, Taur JS, Tao CW (2009) Iris recognition using gabor filters and the fractal dimension. *J Inf Sci Eng* 25:633-648.

2010

2011

- Funabiki K, Ashida G, Konishi M (2011) Computation of interaural time difference in the owl's coincidence detector neurons. *J Neurosci* 31:15245-15256.
- Kyriacou E, Chimonidou P, Pattichis C, Lambrinou E, Barberis VI, Georghiou GP (2011) Post cardiac surgery home-monitoring system. *Lect Notes Inst Comput Sci Soc Telecommun Eng* 55 LNICST:61-68.
- Nakajo K, Nishino A, Okamura Y, Kubo Y (2011) KCNQ1 subdomains involved in KCNE modulation revealed by an invertebrate KCNQ1 orthologue. *J Gen Physiol* 138:521-535.
- Nishino A, Baba SAO, Y. (2011) A Mechanism for Graded Motor Control Encoded in the Channel Properties of the Muscle ACh Receptor. *Proc Natl Acad Sci U S A* 108:2599-2604.
- Ratzan WJ, Evsikov AV, Okamura Y, *Jaffe LA (2011) Voltage sensitive phosphoinositide phosphatases of *Xenopus*: their tissue distribution and voltage dependence. *J Cell Physiol* 226:2740-2746.
- Tomoda A, Sheu Y, Rabi K, Suzuki H, Navalta C, Polcari A, Teicher M (2011) Exposure to parental verbal abuse is associated with increased gray matter volume in superior temporal gyrus. *NeuroImage* 54:S280-286.

2012

- Ashida G, Funabiki K, Kuokkanen P, Kempter R, Carr C (2012) Signal-to-noise ratio in the membrane potential of the owl's auditory coincidence detectors. *J Neurophysiol* 108:2837-2845.
- Hayashi Y, Tagawa Y, Yawata S, Nakanishi S, Funabiki K (2012) Spatio-temporal control of neural activity in vivo using fluorescence microendoscopy. *Eur J Neurosci* 36:2722-2732.

- Santen G, Sun Y, Gijbers A, Carré A, Holvoet M, Haeringen A, Lesnik-Oberstein S, Tomoda A, Mabe H, Polak M, Devriendt K, Ruivenkamp C, Bijlsma E, Journal of Medical Genetics dj-- (2012) Further delineation of the phenotype of chromosome 14q13 deletions: (positional) involvement of FOXP1 appears the main determinant of phenotype severity, no evidence for a holoprosencephaly locus. . J Med Genet 49:366-372.
- Shi T, Li X, Song J, Zhao N, Sun C, Xia W, Wu L, Tomoda A (2012) EEG characteristics and visual cognitive function of children with attention deficit/hyperactivity disorder (ADHD). . Brain Dev.
- Takahata K, Takahashi H, Maeda T, Umeda S, Suhara T, Mimura M, Kato M (2012) It's Not My Fault: Postdictive Modulation of Intentional Binding by Monetary Gains and Losses. PLoS One 7:e53421.
- Tanaka KF, Matsui K, Sasaki T, Sano H, Sugio S, Fan K, Hen R, Nakai J, Yanagawa Y, Hasuwa H, Okabe M, Deisseroth K, Ikenaka K, Yamanaka A (2012) Expanding the Repertoire of Optogenetically Targeted Cells with an Enhanced Gene Expression System. Cell Rep 2:397–406.
- Tomoda A, Kinoshita S, Korenaga Y, Mabe H (2012) Pseudohypacusis in childhood and adolescents is associated with increased gray matter volume in medial frontal gyrus and superior temporal gyrus. Cortex 48:492-503.
- Wang J, Zhou X, Wei XW, Sun C, Wu L, Wang J, Tomoda A (2012) Parent-reported health care expenditures associated with autism spectrum disorders in Heilongjiang Province, China. . BMC Health Services Research 12:7.

2013

- Ashida G, Funabiki K, Carr CE (2013a) Theoretical foundations of the sound analog membrane potential that underlies coincidence detection in the barn owl. Front Comput Neurosci 7:151.
- Ashida G, Funabiki K, Carr CE (2013b) Biophysical basis of the sound analog membrane potential that underlies coincidence detection in the barn owl. Front Comput Neurosci 7:102.
- Chib VS, Yun K, Takahashi H SS (2013) Noninvasive remote activation of the ventral midbrain by transcranial direct current stimulation of prefrontal cortex. Transl Psychiatry 3:e268.
- Tabuchi S, Tsunematsu T, Kilduff TS, Sugio S, Xu M, Tanaka KF, Takahashi S, Tominaga M YA (2013) Influence of inhibitory serotonergic inputs to orexin/hypocretin neurons on the diurnal rhythm of sleep and wakefulness. Sleep 36:1391–1404.
- Tsunematsu T, Tabuchi S, Tanaka KF, Boyden ES, Tominaga M YA (2013) Long-lasting silencing of orexin/hypocretin neurons using archaerhodopsin induces slow-wave sleep in mice. Behav Brain Res 255:64–74.
- Yamada M, Uddin LQ, Takahashi H, Kimura Y, Takahata K, Kousa R, Ikoma Y, Eguchi Y, Takano H, Ito H, Higuchi M ST (2013) Superiority illusion arises from resting-state brain networks modulated by dopamine. Proc Natl Acad Sci U S A 110:4363–4367.

2014

- Ando H, Natsume A, Senga T, Watanabe R, Ito I, Ohno M, Iwami K, Ohka F, Motomura K, Kinjo S, Ito M, Saito K, Morgan R, Wakabayashi T (2014) Peptide-based inhibition of the HOXA9/PBX interaction retards the growth of human meningioma. Cancer Chemother Pharmacol 73:53–60.
- Beppu K, Sasaki T, Tanaka KF, Yamanaka A, Fukazawa Y, Shigemoto R MK (2014) Optogenetic countering of glial acidosis suppresses glial glutamate release and ischemic brain damage. Neuron 81:314–320.

- Black SW, Morairty SR, Chen TM, Leung AK, Wisor JP, Yamanaka A KT (2014) GABAB agonism promotes sleep and reduces cataplexy in murine narcolepsy. *J Neurosci* 34:6485–6494.
- Huang XD, Cheng P, Zhao JX, Dai YH, Liu HM, Gong MQ, Kou JX (2014) Study on biological characteristics of cypermethrin-resistant and -susceptible strains of *Aedes albopictus* at different temperatures. *Chinese J Schistosomiasis Control* 26:652–655.
- Kondo Y, Katsushima K, Ohka F, Natsume A, Shinjo K (2014) Epigenetic dysregulation in glioma. *Cancer Sci* 105:363–369.
- Momota H, Fujii M, Tatematsu A, Shimoyama Y, Tsujiuchi T, Ohno M, Natsume A, Wakabayashi T (2014) Papillary glioneuronal tumor with a high proliferative component and minigemistocytes in a child. *Neuropathology* 34:484–490.
- Motomura K, Fujii M, Maesawa S, Kuramitsu S, Natsume A, Wakabayashi T (2014) Association of dorsal inferior frontooccipital fasciculus fibers in the deep parietal lobe with both reading and writing processes: a brain mapping study. *J Neurosurg* 121:142–148.
- Nishimura Y, Natsume A, Ginsberg HJ (2014) Spinal dural arteriovenous fistula associated with L-4 isthmic spondylolisthesis. *J Neurosurg Spine* 20:670–674.
- NISHIMURA Y, ELLIS MJ, ANDERSON J, HARA M, NATSUME A, GINSBERG HJ (2014) Progressively Unstable C2 Spondylolysis Requiring Spinal Fusion: Case Report. *Neurol Med Chir (Tokyo)* 54:761–767.
- Ohka F, Ito M, Ranjit M, Senga T, Motomura A, Motomura K, Saito K, Kato K, Kato Y, Wakabayashi T, Soga T, Natsume A (2014) Quantitative metabolome analysis profiles activation of glutaminolysis in glioma with IDH1 mutation. *Tumor Biol* 35:5911–5920.
- Suzuki A, Nobusawa S, Natsume A, Suzuki H, Kim YH, Yokoo H, Nagaishi M, Ikota H, Nakazawa T, Wakabayashi T, Ohgaki H, Nakazato Y (2014) Olig2 labeling index is correlated with histological and molecular classifications in low-grade diffuse gliomas. *J Neurooncol* 120:283–291.
- Tabuchi S, Tsunematsu T, Black SW, Tominaga M, Maruyama M, Takagi K, Minokoshi Y, Sakurai T, Kilduff TS YA (2014) Conditional ablation of orexin/hypocretin neurons: a new mouse model for the study of narcolepsy and orexin system function. *J Neurosci* 34:6495–6509.
- Tanahashi K, Natsume A, Ohka F, Momota H, Kato A, Motomura K, Watabe N, Muraishi S, Nakahara H, Saito Y, Takeuchi I, Wakabayashi T (2014) Assessment of Tumor Cells in a Mouse Model of Diffuse Infiltrative Glioma by Raman Spectroscopy. *Biomed Res Int* 2014.
- Tanaka Y, Fujino J, Ideno T, Okubo S, Takemura K, Miyata J, Kawada R, Fujimoto S, Kubota M, Sasamoto A, Hirose K, Takeuchi H, Fukuyama H, Murai T, Takahashi H (2015) Are ambiguity aversion and ambiguity intolerance identical? A neuroeconomics investigation. *Front Psychol* 5:1550.
- Torii K et al. (2014) Effectiveness of plasma treatment on gastric cancer cells. *Gastric Cancer*:635–643 Available at: <http://www.ncbi.nlm.nih.gov/pubmed/24997570>.
- Wang L et al. (2014) Novel somatic and germline mutations in intracranial germ cell tumours. *Nature* 511:241–245.

Tsunematsu T, Ueno T, Tabuchi S, Inutsuka A, Tanaka KF, Hasuwa H, Kilduff TS, Terao A YA (2014) Optogenetic manipulation of activity and temporally controlled cell-specific ablation reveal a role for MCH neurons in sleep/wake regulation. *J Neurosci* 34:6896–6909.

Tsurumi K, Kawada R, Yokoyama N, Sugihara G, Sawamoto N, Aso T, Fukuyama H, Murai T TH (2014) Insular activation during reward anticipation reflects duration of illness in abstinent pathological gamblers. *Front Psychol* 5.

Tsujiuchi T, Natsume A, Motomura K, Kondo G, Ranjit M, Hachisu R, Sugimura I, Tomita S, Takehara I, Woolley M, Barua NU, Gill SS, Bienemann AS, Yamashita Y, Toyokuni S, Wakabayashi T (2014) Preclinical evaluation of an O(6)-methylguanine-DNA methyltransferase-siRNA/liposome complex administered by convection-enhanced delivery to rat and porcine brains. *Am J Transl Res* 6:169–178.

Umebayashi D, Natsume A, Takeuchi H, Hara M, Nishimura Y, Fukuyama R, Sumiyoshi N, Wakabayashi T (2014) Blockade of gap junction hemichannel protects secondary spinal cord injury from activated microglia-mediated glutamate excitotoxicity. *J Neurotrauma* 31:1967–1974.

Yamashita Y, Ito Y, Isomura H, Takemura N, Okamoto A, Motomura K, Tsujiuchi T, Natsume A, Wakabayashi T, Toyokuni S, Tsurumi T (2014) Lack of presence of the human cytomegalovirus in human glioblastoma. *Mod Pathol* 27:922–929.

2015

Hattori N, Yamada S, Tori K, Takeda S, Nakamura K, Tanaka H, Kajiyama H, Kanda M, Fuji T, Nakayama G, Sugimoto H, Koike M, Nomoto S, Fujiwara M, Mizuno M, Hori M, Kodera Y (2015) Effectiveness of plasma treatment on pancreatic cancer cells. *Int J Oncol* 47:1655–1662.

Horie K, Hidema S, Hirayama T, Nishimori K (2015) In vitro culture and in vitro fertilization techniques for prairie voles (*Microtus ochrogaster*). *Biochem Biophys Res Commun* 463:907–911.

Iwami K, Momota H, Fujii M, Natsume A, Yagi S, Toriyama K, Kamei Y, Wakabayashi T (2015) Anaplastic meningioma with rapid growth after omental flap transposition: a case report and experimental study. *Brain Tumor Pathol* 32:137–144.

Mesic I, Guzman YF, Guedea AL, Jovasevic V, Corcoran KA, Leaderbrand K, Nishimori K, Contractor A, Radulovic J (2015) Double Dissociation of the Roles of Metabotropic Glutamate Receptor 5 and Oxytocin Receptor in Discrete Social Behaviors. *Neuropsychopharmacology* 40:2337–2346.

Mobbs D, Hagan CC, Yu R, Takahashi H, FeldmanHall O, Calder AJ, Dalgleish T (2015) Reflected glory and failure: the role of the medial prefrontal cortex and ventral striatum in self vs other relevance during advice-giving outcomes. *Soc Cogn Affect Neurosci*.

Oguchi M, Okajima M, Tanaka S, Koizumi M, Kikusui T, Ichihara N, Kato S, Kobayashi K, Sakagami M (2015) Double virus vector infection to the prefrontal network of the macaque brain. *PLoS One* 10.

Piao YS, Hall FS, Moriya Y, Ito M, Ohara A, Kikura-Hanajiri R, Goda Y, Lesch KP, Murphy DL, Uhl GR, Sora I (2015) Methylone-induced hyperthermia and lethal toxicity: Role of the dopamine and serotonin transporters. *Behav Pharmacol* 26:345–352

Sato N, Maeda M, Sugiyama M, Ito S, Hyodo T, Masuda A, Tsunoda N, Kokuryo T, Hamaguchi M, Nagino M, Senga T (2015) Inhibition of SNW1 association with spliceosomal proteins promotes apoptosis in breast cancer cells. *Cancer Med* 4:268–277.

Sugiyama M, Hasegawa H, Ito S, Sugiyama K, Maeda M, Aoki K, Wakabayashi T, Hamaguchi M, Natsume A, Senga T (2015) Paired related homeobox 1 is associated with the invasive properties of Glioblastoma cells. *Oncol Rep* 33:1123–1130.

Suzuki H et al. (2015) Mutational landscape and clonal architecture in grade II and III gliomas. *Nat Genet* 47:458–468.

Tanaka S, Pan X, Oguchi M, Taylor JE, Sakagami M (2015) Dissociable functions of reward inference in the lateral prefrontal cortex and the striatum. *Front Psychol* 6.

2016

Tada H, Miyazaki T, Takemoto K, Takase K, Jitsuki S, Nakajima W, Koide M, Yamamoto N, Komiya K, Suyama K, Sano A, Taguchi A, and Takahashi T (2016) Neonatal isolation augments social dominance by altering actin dynamics in the medial prefrontal cortex. *Proc Natl Acad Sci U S A*, E7097-E7105, 1606351113.

Zhang Y, Pan X, Wang R, Sakagami M (2016) Functional connectivity between prefrontal cortex and striatum estimated by phase locking value. *Cogn Neurodyn* 10:245–254.

Fan H, Pan X, Wang R, Sakagami M (2017) Differences in reward processing between putative cell types in primate prefrontal cortex. *PLoS One* 12:1–27.

Irie T, Trussell LO (2017) Double-Nanodomain Coupling of Calcium Channels, Ryanodine Receptors, and BK Channels Controls the Generation of Burst Firing. *Neuron* 96:856–870.e4

Irie T, Trussell LO (2017) Double-Nanodomain Coupling of Calcium Channels, Ryanodine Receptors, and BK Channels Controls the Generation of Burst Firing. *Neuron* 96:856–870.e4

Lak A, Nomoto K, Keramati M, Sakagami M, Kepecs A (2017) Midbrain Dopamine Neurons Signal Belief in Choice Accuracy during a Perceptual Decision. *Curr Biol* 27:821–832.

Ripamonti S, Ambrozkiwicz MC, Guzzi F, Gravati M, Biella G, Bormuth I, Hammer M, Tuffy LP, Sigler A, Kawabe H, Nishimori K, Toselli M, Brose N, Parenti M, Rhee JS (2017) Transient oxytocin signaling primes the development and function of excitatory hippocampal neurons. *Elife* 6.

2017

Takemoto K, Iwanari H, Tada H, Suyama K, Sano A, Nagai T, Hamakubo T, and Takahashi T (2017). Optical inactivation of synaptic AMPA receptors erases fear memory. *Nat Biotech* 35: 38-47.

Fan H, Pan X, Wang R, Sakagami M. Differences in reward processing between putative cell types in primate prefrontal cortex. *PLoS ONE*, 12(12):e0189771. 2017

Lak A, Nomoto K, Keramati M, Sakagami M, Kepecs A Midbrain Dopamine Neurons Signal Belief in Choice Accuracy during a Perceptual Decision. *Current biology* 27(6):821-832. 2017

Jiang Y, Loh YE, Rajarajan P, Hirayama T, Liao W, Kassim BS, Javidfar B, Hartley BJ, Kleofas L, Park RB, Labonte B, Ho SM, Chandrasekaran S, Do C, Ramirez BR, Peter CJ, C W JT, Safaie BM, Morishita H, Roussos P, Nestler EJ, Schaefer A, Tycko B, Brennand KJ, Yagi T, Shen L and Akbarian S. The methyltransferase SETDB1 regulates a large neuron- specific topological chromatin domain. *Nature Genetics* 49: 1239-1250 (2017) doi:10.1038/ng.3906

Mizuno Y, Jung M, Fujisawa TX, Takiguchi S, Shimada K, Saito D, 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. *Sci Rep*, 7(1):4850, 2017.

Bennett A, Hopkins W, Feldman R, Gazzola V, Giedd J, Lamb M, Scheele D, Sheridan M, Suomi S, Tomoda A, Tottenham N, Neural foundations of variability in attachment. *The Cultural Nature of Attachment: Contextualizing Relationships and Development*, edited by Keller H & Bard KA. Ernst Strungmann Forum Reports, vol. 22, Cambridge, MA: MIT Press, pp245-271, 2017.

2018

Alrahbi S, Alaraimi R, Alzaabi A, Gosselin S (2018) Intensive blood-pressure lowering in patients with acute cerebral hemorrhage. *Can J Emerg Med* 20:256–259.

Fukutomi H, Glasser MF, Zhang H, Autio JA, Coalson TS, Okada T, Togashi K, Van Essen DC, Hayashi T (2018) Neurite imaging reveals microstructural variations in human cerebral cortical gray matter. *Neuroimage* 182:488-499.

Sanathara NM, Garau C, Alachkar A, Wang L, Wang Z, Nishimori K, Xu X, Civelli O (2018) Melanin concentrating hormone modulates oxytocin-mediated marble burying. *Neuropharmacology* 128:22-32.

Tanaka Y, Sone T, Higurashi N, Sakuma T, Suzuki S, Ishikawa M, Yamamoto T, Mitsui J, Tsuji H, Okano H, Hirose S, Generation of D1-1 TALEN isogenic control cell line from Dravet syndrome patient iPSCs using TALEN-mediated editing of the SCN1A gene. *Stem Cell Res.* 2018; 28:100-4.

Tanaka Y, Higurashi N, Shirasu N, Yasunaga S, Moreira KM, Okano H, Hirose S. Establishment of a human induced stem cell line (FUi002-A) from Dravet syndrome patient carrying heterozygous R1525X Mutation in SCN1A gene. *Stem Cell Res.* 2018; 31:11-5

Fujisawa TX, Shimada K, Kojima M, Takiguchi S, Mizushima S, Kosaka H, Teicher M, Tomoda A*, Type and timing of childhood maltreatment and reduced visual cortex volume in children and adolescents with reactive attachment disorder. *Neuroimage Clin*, Jul 23; 20: 216-221, 2018.

Matsunaga M, Tanaka Y, & Myowa M. (2018) Maternal nurturing experience affects the perception and recognition of adult and infant facial expressions, *PLoS ONE*, 13(10): e0205738.

Fukushima H, Tanaka Y, & Myowa M. (2018) Temporal matching between interoception and exteroception: electrophysiological responses in a heartbeat discrimination task. *Journal of Psychophysiology*, <https://doi.org/10.1027/0269-883/a000224>.

Myowa-Yamakoshi, M (2018) The evolutionary roots of human imitation, action understanding and symbols. *Interaction Studies*, 19, 183-199. DOI 10.1075/is.17034.myo.

Arbib, M, Aboitiz F, Burkart J.M, Corballis M, Coude G, Hecht E, Liebal K, Myowa-Yamakoshi M, Pustejovsky J, Putt S, Rossano F, Russon A.E, Schoenemann P.T, Seifert U, Semendeferi K, Shnha C, Stout D, Volterra V, Waciewicz S, & Wilson B, (2018) The comparative neuroprimatology 2018. (CNP-2018) road map for research on How the Brain Got Language, *Interaction Studies*, 19, 370-387. DOI 10.1075/is.18013.arb.

Tanaka T, Kanakogi Y, Kawasaki M, & Myowa M, (2018) The integration of audio-tactile information is modulated by multimodal social interaction with physical contact in infancy, *Developmental Cognitive Neuroscience*, 30, 31-40. doi.org /10.1016 / j.dcn.201712.001.

Kumaki Y, Moriguchi Y, & Myowa-Yamakoshi M, (2018) Expectations about recipients' prosociality and mental time travel relate to resource allocation in preschoolers. *Journal of Experimental Child Psychology*, 167, 278-294. doi.org / 101016 / j. jecp.2017.10.013.

2019

Goto A, Ishii A, Shibata M, Ihara Y, Cooper EC, Hirose S, Characteristics of KCNQ2 variants causing either benign neonatal epilepsy or developmental and epileptic encephalopathy. *Epilepsia*. 2019; 60(9): 1870-80.

Natsumeda M, Liu Y, Nakata S, Miyahara H, Hanaford A, Ahsan S, Stearns D, Skuli N, Raabe EH, Rodriguez FJ, Eberhart CG, Inhibition of enhancer of zest homologue 2 is a potential therapeutic target for high-MYC medulloblastoma. *Neuropathology*, 39(2): 71-77, 2019.

Jung M, Mizuno Y, Fujisawa TX, Takiguchi S, Kong J, Kosaka H, Tomoda A*. The effects of COMT polymorphism on cortical thickness and surface area abnormalities in children with ADHD. *Cereb Cortex*, 29(9): 3902-3911, 2019.

Mizuno y, Shimono KK, Jung M, Makita K, Takiguchi S, Fujisawa TX, Tachibana M, Nakanishi M, Mohri I, Taniike M, Tomoda A*. Structural brain abnormalities in children and adolescents with comorbid Autism Spectrum Disorder and Attention-Deficit/Hyperactivity Disorder. *Transl Psychiat*, 9(1): 332, 2019.

Shinohara A, Kanakogi Y, & Myowa M. (2019) Strategic reputation management: Children adjust their reward distribution in accordance with an observer's mental state. *Cognitive Development*, 195-204.

Imafuku M, Kanakogi Y, Butler D, & Myowa M. (2019) Demystifying infant Vocal imitation: The roles of mouth looking and speaker's gaze. *Developmental Science*, e12825. DOI:10.1111/desc. 12825.

Imafuku M, Kawai M, Niwa F, Shinya Y, & Myowa M. (2019) Audiovisual Speech Perception and Language Acquisition in preterm Infants: A Longitudinal Study. *Early Human Development*, 128, 93-100. <https://doi.org/10.1016/j.earlhumdev.2018.11.001>

Maruyama S, et al. Comparison of 3T and 7T MRI for the visualization of globus pallidus subsegments. *Sci Rep*. 9:18357.2019

2020

Suzuki S, Fujisawa TX, Sakakibara N, Yazawa A, Fujioka T, Takiguchi S, Tomoda A*. Development of social attention and oxytocin levels in maltreated children. *Sci Rep*, 10(1) 7407-7407, 2020

Matsunaga M, Kikusui T, Mogi K, Nagasawa M, Ooyama R, & Myowa M, (2020) Breastfeeding dynamically changes endogenous oxytocin levels and emotion recognition in mothers. *Biology Letters*, 16(6): 20200139.

Niwa F, Kawai M, Kanazawa H, Okanoya K, & Myowa M, (2020) The development of the hypothalamus-pituitary-adrenal axis during infancy may be affected by antenatal glucocorticoid therapy. *Journal of Neonatal-Perinatal Medicine*, vol.13, no.1, 55-61, DOI: 10.3233/NPM-180040.