

研究成果の発表（論文・図書）

池田 康夫

Y. Matsubara, Y. Ikeda, 他5名、7番目. OP9 Bone Marrow Stroma Cells Differentiate into Megakaryocytes and Platelets. *PLoS One.*, 8(3), 2013, e58123.

Y. Ono, Y. Ikeda, 他6名、5番目. Induction of functional platelets from mouse and human fibroblasts by p45NF-E2/Maf. *Blood.*, 120(18), 2012 Nov 1, 3812-21.

Y. Matsubara, Y. Ikeda, 他1名、3番目. Culture of megakaryocytes and platelets. From subcutaneous adipose tissue and a preadipocyte cell line. *Methods Mol Biol.*, 788, 2012, 249-58.

糸原 重美

Y. Kobayashi, S. Itohara, 他 10 名、12 番目 . Genetic dissection of medial habenula-interpeduncular nucleus pathway function in mice. *Front Behav Neurosci.*, 7, 17, 2013.

M. Tanaka, S. Itohara, 他 8 名、10 番目. Astrocytic Ca<sup>2+</sup> signals are required for the functional integrity of tripartite synapses. *Mol Brain.*, 6, 6, 2013.

S. Ninomiya, S. Itohara, 他 8 名、9 番目. Amygdala kindling induces nestin expression in the leptomeninges of the neocortex. *Neurosci Res.*, 2013, In press

M. Yamamoto, S. Itohara, 他 13 名、12 番目. The transformation suppressor gene Reck is required for postaxial patterning in mouse forelimbs. *Biol Open.*, 1, 2012, 458-466.

T. Sadakata, S. Itohara, 他 6 名、7 番目. Reduced axonal localization of a Caps2 splice variant impairs polarization of BDNF release and causes autistic-like behavior in mice. *Proc Natl Acad Sci USA*, 109, 2012, 21104-21109.

K. Sathe, S. Itohara, 他 10 名、10 番目. S100B ablation protects against MPTP-induced toxicity via the RAGE and TNF- $\alpha$  pathway and is increased in Parkinson's disease. *Brain.*, 135, 2012, 3336-3347.

H. Yamashita, S. Itohara, 他 8 名、6 番目. Restoration of contralateral representation in the mouse somatosensory cortex after crossing nerve transfer. *PLoS One.*, 7(4), 2012, e35676.

井上 貴文

A. Kumazawa, T. Inoue, 他 9 名、10 番目. Cyclin-dependent kinase 5 is required for normal cerebellar development. *Molecular and Cellular Neuroscience*, 52, 2013, 97-105.

K. Leuner, T. Inoue, 他 7 名、8 番目. Hyperforin modulates dendritic spine morphology in hippocampal pyramidal neurons by activating Ca<sup>2+</sup>-permeable TRPC6 channels. *Hippocampus*, 23, 2013, 40-52.

S. Tamamushi, T. Inoue, 他 5 名、3 番目. Type 2 Inositol 1,4,5-trisphosphate receptor is predominantly involved in agonist-induced Ca<sup>2+</sup> signaling in Bergmann glia. *Neuroscience Research*, 74, 2012, 32–41.

H. Nakamura, T. Inoue, 他 5 名、3 番目. Cooperative and stochastic calcium releases from multiple calcium puff sites generate calcium microdomains in intact HeLa cells. *The Journal of Biological Chemistry*, 287, 2012, 24563-24572.

K. Narita, T. Inoue, 他 6 名、7 番目. Proteomics of choroid plexus epithelial cilia reveals unexpected mosaic distribution of heterogeneous cilia in a cellular level. *Biology Open*, 1, 2012, 815-825.

井上 宏子

E. Suzuki, H. Inoue, 他 1 名、3 番目. Phosphoinositide metabolism in Drosophila phototransduction. *J. Neurogenet.*, 26(1), 2012, 34-42.

大河内 仁志

大河内仁志、組織幹細胞 「再生医療叢書 1 幹細胞」、山中伸弥、中内啓光編 朝倉書店、193、2012、30-48.

大河内仁志、脂肪組織由来幹細胞を用いた再生医療 「内分泌 糖尿病 代謝内科」 35、2012、164-169.

大島 登志男

A. Kumazawa, T. Ohshima T, 他 8 名、10 番目. Cyclin-dependent kinase 5 is required for normal cerebellar development. *Mol Cell Neurosci.*, 52, 2013, 97-105.

T. Terabayashi, T. Ohshima, 他 6 名、4 番目. Phosphorylation of Kif26b Promotes Its Polyubiquitination and Subsequent Proteasomal Degradation during Kidney Development. *PLoS ONE*, 7(6), 2012, e39714.

J. Nagai, T. Ohshima, 他 1 名、3 番目. CRMP4 mediates MAG-induced inhibition of axonal outgrowth and protection against Vincristine-induced axonal degeneration. *Neurosci Lett.*, 19, 2012, 56-61.

H. Tanaka, T. Ohshima, 他 1 名、3 番目. Dpysl2 (CRMP2) and Dpysl3 (CRMP4) phosphorylation by Cdk5 and DYRK2 is required for proper positioning of Rohon-Beard neurons and neural crest cells during neurulation in zebrafish. *Dev Biol.*, 370, 2012, 223-236.

E. Niisato, T. Ohshima, 他 5 名、7 番目. CRMP4 suppresses apical dendrite bifurcation of CA1 pyramidal neurons in the mouse hippocampus. *Dev Neurobiol.*, 72, 2012, 1447-1457.

E. Niisato, T. Ohshima, 他 4 名、6 番目. Phosphorylation of CRMP2 is involved in proper bifurcation of the apical dendrite of hippocampal CA1 pyramidal neurons. *Dev Neurobiol.*, 73, 2013, 142-151.

M. Brondolin, T. Ohshima, 他 5 名、5 番目. Identification and expression analysis of the Ceramide synthase gene family in zebrafish *Danio rerio*. *Dev Dyn.*, 242, 2013, 189-200.

D. Huilgol, T. Ohshima, 他 10 名、9 番目. Dual origin of the mammalian accessory olfactory bulb revealed by an evolutionarily conserved long distance migratory stream. *Nat. Neurosci.*, 16, 2013, 157-165.

岡野 俊行

R. Watari, T. Okano, 他4名、6番目. Light-dependent structural change of chicken retinal Cryptochrome4. *J. Biol. Chem.*, 287(51), 2012, 42634-4264, doi: 10.1074/jbc.M112.395731.

A. Takebe, T. Okano, 他5名、7番目. Zebrafish respond to the geomagnetic field by bimodal and group-dependent orientation. *Sci. Rep.*, 2, 2012, 727.

深田吉孝・岡野俊行 視覚異常症. 図説・分子病態学(第5版), 中外医学社、2013、印刷中.

岡本 仁

H. Okamoto, 他2名. Genetic dissection of the zebrafish habenula, a possible switching board for selection of behavioral strategy to cope with fear and anxiety. *Dev. Neurobiol.*, 72, 2012, 386-394.

H. Aizawa, H. Okamoto, 他3名、5番目. Molecular characterization of the subnuclei in rat habenula. *J. Comp. Neurol.*, 520, 2012, 4051-4066.

笠貫 宏

笠貫宏 「内科患者のメンタルケアアプローチ—循環器疾患編—」 桑原和江・伊藤弘人 編著、新興医学出版、2013、42-47 (分担執筆：第1章VII. 循環器心身医学による全人医療と包括医療)

加藤 尚志

S. Maekawa, T. Kato, 他1名、3番目. Enhanced erythropoiesis in mice exposed to low environmental temperature. *J Exp Biol.*, 216 (Pt5), 2013, 901-908

Y. Yoshioka, T. Kato, 他2名、4番目. Micromanaging iron homeostasis: Hypoxia-inducible miR-210 suppresses iron homeostasis-related proteins. *J Biol Chem.*, 287(41), 2012, 34110-34119

S. Maekawa, T. Kato, 他6名、8番目. Hepatic confinement of newly-produced erythrocytes caused by low-temperature exposure in *Xenopus laevis*. *J Exp Biol.* 215 (Pt 17), 2012, 3087-3095

吉岡祐亮, 小坂展慶, 加藤尚志. 新たなバイオマーカーとしてのエクソソームと診断技術: エクソソームはバイオマーカーの宝箱?. 細胞工学, (特集) 疾患エクソソーム: 病をもたらすパンドラの箱がいま開かれる~エクソソームを制するものが疾患を制する~, 学研メディカル秀潤社刊, 細胞工学, Vol.32, No.1, 2013年, 66-70頁

加藤尚志, 他 3名. 巨核球・血小板産生における TPO-c-Mpl 系の分子動態. 特集: 巨核球・血小板の細胞運命制御機構, 血栓止血誌, 日本血栓止血学会, 23(6), 2012年, 1-8

宮崎洋, 加藤尚志. 2. トロンボポエチン研究の歴史とクローニング, トロンボポエチンの基礎を知る. 『トロンボポエチン受容体作動薬のすべて』. 編) 池田康夫, PART1: 血小板産生機構とトロンボポエチンの基礎をみる, 先端医学社刊, 2012年, 10-18頁

谷崎祐太, 加藤尚志. 1. 巨核球造血の最新知見から血小板産生機構を知る. 『トロンボポエチン受容体作動薬のすべて』. 編) 池田康夫, PART1: 血小板産生機構とトロンボポエチンの基礎をみる, 先端医学社刊, 2012年, 19-30頁

吉岡祐亮, 加藤尚志, 他 2名、3番目. がん細胞の代謝異常と microRNA 制御. 実験医学 (増刊) がん代謝, 第 3章 低酸素, 酸化ストレス, 編) 曾我朋義, 江角浩安, 羊土社刊, 第 30 巻 15号, 2012年, 121 (2455) -127 (2461) 頁

胡桃坂 仁志

A. Osakabe, H. Kurumizaka, 他 6名、8番目. Vertebrate Spt2 is a novel nucleolar histone chaperone that assists in ribosomal DNA transcription. *J Cell Sci.*, 2013, in press

Y. Ichikawa, H. Kurumizaka, 他 5名、7番目. Purification and characterization of the fission yeast telomere clustering factors, Bqt1 and Bqt2. *Protein Expr. Purif.*, 88(2), 2013, 207-213.

H. Tachiwana, H. Kurumizaka, 他 9名、11番目. Nap1 regulates proper CENP-B binding to nucleosomes. *Nucleic Acids Res.*, 2013, in press

H. Kurumizaka, 他 3名. Current progress on structural studies of nucleosomes containing histone H3 variants. *Curr. Opin. Struct. Biol.*, 23(1), 2013, 109-115.

K. Sato, H. Kurumizaka, 他 12 名、14 番目. Histone chaperone activity of Fanconi anemia proteins, FANCD2 and FANCI, is required for DNA crosslink repair. *EMBO J.*, 31(17), 2012, 3524-36.

A. Harada, H. Kurumizaka, 他 12 名、10 番目. Chd2 interacts with H3.3 to determine myogenic cell fate. *EMBO J.*, 31(13), 2012, 2994-3007.

Y. Arimura, H. Kurumizaka, 他 3 名、5 番目. Structural Analysis of the Hexasome, Lacking One Histone H2A/H2B Dimer from the Conventional Nucleosome. *Biochemistry*, 51(15), 2012, 3302-3309.

K. Sato, H. Kurumizaka, 他 3 名、5 番目. DNA robustly stimulates FANCD2 monoubiquitylation in the complex with FANCI. *Nucleic Acids Res.*, 40(10), 2012, 4553-4561.

T. Shigechi, H. Kurumizaka, 他 12 名、12 番目. ATR-ATRIP kinase complex triggers activation of the Fanconi anemia DNA repair pathway. *Cancer Res.*, 72(5), 2012, 1149-1156.

LL. Kujjo, H. Kurumizaka, 他 13 名、12 番目. RAD51 Plays a Crucial Role in Halting Cell Death Program Induced by Ionizing Radiation in Bovine Oocytes. *Biol Reprod.*, 86(3), 2012, 76.

Y. Morozumi, H. Kurumizaka H, 他 4 名、6 番目. Human PSF concentrates DNA and stimulates duplex capture in DMC1-mediated homologous pairing. *Nucleic Acids Res.*, 40(7), 2012, 3031-3041.

合田 亘人

Y. Nishiyama, N. Goda, 他 9 名. HIF-1 $\alpha$  induction suppresses excessive lipid accumulation in alcoholic fatty liver in mice. *J Hepatol*, 56(2), 2012, 441-447.

A. Ikejiri, N. Goda, 3 番目、他 6 名. Dynamic regulation of Th17 differentiation by oxygen concentrations. *Int Immunol*, 24(3), 2012, 137-146.

A. Nakamura-Ishizu, N. Goda, 6 番目、他 8 名. The formation of an angiogenic astrocyte template is regulated by the neuroretina in a HIF-1-dependent manner. *Dev Biol*, 363(1), 2012, 106-114.

S. Sakimoto, N. Goda, 6 番目、他 7 名. A role for endothelial cells in promoting the maturation of astrocytes through the apelin/APJ system in mice. *Development*, 139(7), 2012, 1327-1335.

M. Higashiyama, N. Goda, 14 番目、他 13 名. HIF-1 in T cells ameliorated dextran sodium sulfate-induced murine colitis. *J Leukoc Biol*, 91(6), 2012, 901-909.

N. Goda, M. Kanai. Hypoxia-inducible factors and their roles in energy metabolism. *Int J Hematol*, 95, 2012, 457-463.

N. Goda. Hypoxia biology in health and disease. *Int J Hematol*, 95, 2012, 455-456.

K. Takubo, N. Goda, 7 番目、他 11 名. Regulation of Glycolysis by Pdk Functions as a Metabolic Checkpoint for Cell Cycle Quiescence in Hematopoietic Stem Cells. *Cell Stem Cell*, 12(1), 2013, 49-61.

K. Tsukada, N. Goda, 6 番目、他 5 名. Hypoxia-inducible factor-1 is a determinant of lobular structure and oxygen consumption in the liver. *Microcirculation*, 2013 in press.

合田 亘人、鈴木 智大、金井 麻衣 HIF が制御するエネルギー代謝 実験医学 30(8), 2012, 1258-1263.

中山 恒、合田 亘人 概論—多彩な生命現象に働く低酸素応答システム 実験医学 30(8), 2012, 1246-1251.

合田 亘人、金井 麻衣 低酸素シグナリング -HIF シグナリング- イラストで徹底理解するシグナル伝達キーワード事典 2012, 95-97.

合田 亘人、鈴木 智大 低酸素転写制御因子と SDB 呼吸器 NEWS&VIEWS 40, 2012, 6-8.

合田 亘人、長内 康太 肝疾患と HIF を介した低酸素応答 血管医学 *Vascular Biology & Medicine* 13(4), 2012, 377-383.

合田 亘人 HIF による肝臓内糖・脂質代謝制御機構 生化学 84(11), 2012, 942-947.

合田 亘人、加藤 早由華 HIF を介した防御機構：低酸素ストレス下のエネルギー代謝制御  
医学のあゆみ 244(4), 2013, 286-291.

柴田 重信

E. Takita, S. Shibata, 他 6 名、8 番目. Biological clock dysfunction exacerbates contact hypersensitivity in mice. *Br J Dermatol.*, 168(1), 2013, 39-46

H. Kuroda, S. Shibata, 他 9 名、11 番目. Meal frequency patterns determine the phase of mouse peripheral circadian clocks. *Scientific Reports*, 2, 2012,711.

Y. Fuse, S. Shibata, 他 4 名、6 番目. Differential roles of breakfast only (one meal per day) and a bigger breakfast with a small dinner (two meals per day) in mice fed a high-fat diet with regard to induced obesity and lipid metabolism. *J Circadian Rhythms.*, 10(1), 2012, 4.

Y. Tahara, S. Shibata, 他 16 名、18 番目. In vivo monitoring of peripheral circadian clocks in the mouse. *Current Biology*, 22(11), 2012,1029-34.

Y. Uchida, S. Shibata, 他 5 名、7 番目. Involvement of the stress kinase mitogen-activated protein kinase kinase 7 in the regulation of the mammalian circadian clock. *J Biol Chem.*, 287(11), 2012, 8318-26.

A. Hirao, S. Shibata, 他 3 名、5 番目. The Protective and Recovery Effects of Fish Oil Supplementation on Cedar Pollen-Induced Allergic Reactions in Mice. *Food Nutrition and Sciences*, 3(1), 2012,40-47.



Y. Kubo, S. Shibata, 他 2 名、4 番目. 2,2,2-Tribromoethanol phase-shifts the circadian rhythm of the liver clock in Per2::Luciferase knockin mice: lack of dependence on anesthetic activity. *J Pharmacol Exp Ther.*, 340(3), 2012, 698-705.

柴田重信, 青木菜摘, 時間栄養学, G. I. Research vol.20 no.5, 先端医学社, 2012

柴田重信, 用語解説「時間栄養学」, 栄養—評価と治療—Vol.29 No.3/2012.8, (株)メディカルレビュー社, 2012

平尾彰子, 柴田重信, 体内時計を用いた理想的な食生活作りのために, 顕微鏡, 47(2), 2012, 83—86

柴田重信, 暮らしの最前線 90「時間栄養学の現状とこれから」, 日本家政学会誌, 63(6), 2012, 337—341

柴田重信, 体内時計と食品成分 (シリーズ 長寿の秘訣を時計遺伝子から探る), FOODSTYLE21, 6月号 第16巻 第6号 通巻181号, 2012

柴田重信, 時間栄養学, 化学と生物, 日本農芸化学会、2012

柴田重信, 生体リズムと創薬, 日本臨床薬理学会誌, 2012

柴田重信, 概日リズムと肥満・生活習慣病, 体内時計と栄養・食事の相互作用, 日本肥満学会誌, 2012

柴田重信, 時計遺伝子と食事リズム—時間栄養学—, 日本臨床栄養学会誌, 2012

堀川和政, 柴田重信, イラストで徹底理解するシグナル伝達キーワード事典, 羊土社, 2012, 93-94

柴田重信, 時間生物学, 化学同人, 2012, 91-102

鈴木 克彦

N. Kawanishi, K. Suzuki, 他4名、6番目. Exercise training attenuates hepatic inflammation, fibrosis and macrophage infiltration during diet induced-obesity in mice. *Brain, Behavior, and Immunity.*, 26 (6), 2012, 931-941.

K. Sugama, K. Suzuki, 他3名、2番目. IL-17, neutrophil activation and muscle damage following endurance exercise. *Exerc. Immunol. Rev.*, 18, 2012, 115-126.

K. Suzuki, 他11名. Effect of green tea extract on reactive oxygen species produced by neutrophils from cancer patients. *Anticancer Res.*, 32, 2012, 2369-2376.

鈴木克彦, 他8名. 新規好中球機能検査法を応用した植物抽出物の機能性評価, 日本補完代替医療学会誌 9(2), 2012, 89-95.

鈴木克彦, 他6名. 新規好中球機能検査法によるクルクミンの抗酸化・抗炎症作用の評価. 臨床化学, 41 (4), 2012, 353-358.

仙波 憲太郎

Y. Tezuka, K. Semba, 他 6 名、6 番目. Potential anti-tumor effect of IFN- $\lambda$ 2 (IL-28A) against human lung cancer cells. *Lung Cancer*, 78(3), 2012, 185-92.

A. Matsui, K. Semba, 他 11 名、10 番目. Murakami. CXCL17 expression by tumor cells recruits CD11b+Gr1 high F4/80- cells and promotes tumor progression. *PLoS One*, 7(8), 2012, e44080.

M. Saito, K. Semba, 他 18 名、19 番目. Expression screening of 17q12-21 amplicon reveals GRB7 as an ERBB2-dependent oncogene. *FEBS Lett.*, 586(12), 2012, 1708-14.

S. Yoshikawa, K. Semba, 他 18 名、18 番目. Structural basis for the altered drug sensitivities of non-small cell lung cancer-associated mutants of human epidermal growth factor receptor. *Oncogene*, 32(1), 2013, 27-38.

K. Horiguchi, K. Semba, 他 9 名、4 番目. TGF- $\beta$  drives epithelial-mesenchymal transition through  $\delta$ EF1-mediated downregulation of ESRP. *Oncogene*, 1(26), 2012, 3190-201.

高西 淳夫

S. Sessa, A. Takanishi, 他 4 名、6 番目. A Methodology for the Performance Evaluation of Inertial Measurement Units. *Journal of Intelligent & Robotic Systems*, 2012, DOI10.1007/s10846-012-9772-8.

L. Bartolomeo, A. Takanishi, 他 4 名、6 番目. Online magnetic calibration of a cutting edge 9-axis wireless Inertial Measurement Unit. *International Journal of Applied Electromagnetics and Mechanics*, 39(1-4), 2012, 779-785.

H. Ishii, A. Takanishi, 他 9 名、11 番目. A novel method to develop an animal model of depression using a small mobile robot. *Advanced Robotics*, 27(1), 2012, 61-69.

永井美鈴, 高西淳夫, 他 2 名、4 番目. 気管チューブカフにより気管壁に作用する圧力測定の試み, *医工学治療*, 24(3), 2012, 185-189.

G. G. Muscolo, A. Takanishi, 他 3 名、5 番目. Towards an Improvement of the SABIAN Humanoid Robot: from Design to Optimisation, *Journal of Mechanical Engineering and Automation*, 2(4), 2012, 80-84.

武田 直也

Y. Edagawa, N. Takeda, 他 2 名、4 番目. Spatiotemporally Controlled Navigation of Neurite Outgrowth in Sequential Steps on the Dynamically Photo-Patternable Surface. *Colloids and Surfaces B: Biointerfaces*, 99, 2012, 20-26.

K. Nagase, N. Takeda, 他 5 名、6 番目. Dynamically Cell Separating Thermo-Functional Biointerfaces with Densely Packed Polymer Brushes. *Journal of Materials Chemistry*, 22, 2012, 19514-19522.

竹山 春子

C. S. Del Castillo, H. Takeyama, 他 8 名、9 番目. Comparative Sequence Analysis of a Multidrug-Resistant Plasmid from *Aeromonas hydrophila*. *Antimicrob Agents Chemother.*, 57(1), 2013, 120–129.

J-I. Hikima, H. Takeyama, 他 8 名、8 番目. LGP2 Expression is Enhanced by Interferon Regulatory Factor 3 in Olive Flounder, *Paralichthys olivaceus.*, *PLoS ONE*, 7(12), 2012, e51522.

S. Kurokawa, H. Takeyama, 他 11 名、12 番目. Bacterial Classification of Fish-Pathogenic Mycobacterium Species by Multigene Phylogenetic Analyses and MALDI Biotyper Identification System. *Mar Biotechnol (NY)*, 2012, In press.

M. Ohtani, H. Takeyama, 他 5 名、6 番目. Variable domain antibodies specific for viral hemorrhagic septicemia virus (VHSV) selected from a randomized IgNAR phage display library. *Fish Shellfish Immunol.*, 34(2), 2012, 724-728.

R. O'Rorke, H. Takeyama, 他 7 名、4 番目. Determining the Diet of Larvae of Western Rock Lobster (*Panulirus cygnus*) Using High-Throughput DNA Sequencing Techniques. *PLoS ONE*, 7(8), 2012, e42757.

K. Nishi, H. Takeyama, 他 4 名、5 番目. Immunochromatographic assay of cadmium levels in oysters. *Talanta*, 97, 2012, 262–266.

竹山春子、「微細藻類によるエネルギー生産と事業展望」 竹山春子 監修の巻頭言として「はじめに」、シーエムシー、2012、巻頭言.

竹山春子、「遺伝子工学」 近藤 昭彦・芝崎 誠司 編著、(分担執筆：第 11 章 バイオ計測の項)、化学同人、2012、156-169.

竹山春子、「生命科学概論 環境・エネルギーから医療まで」 早稲田大学先進理工学部生命医科学科 (編)、(分担執筆：応用編 2 -医療- 第 11 章 先端バイオ計測の項)、朝倉書店、2012、106-111.

筒井 和義

F. Maekawa, K. Tsutsui, 他 17 名、7 番目. Ohki-Hamazaki. A genetically female brain is required for a regular reproductive cycle in chicken brain chimeras. *Nat. Commun.*, 4, 2013, article number 1372.

Y. Shima, K. Tsutsui, 他 10 名、11 番目. Contribution of Leydig and Sertoli cells to testosterone production in mouse fetal testes. *Mol. Endocrinol.*, 27, 2013, 63-73.

S. Haraguchi, K. Tsutsui, 他 3 名、5 番目. Possible role of pineal allopregnanolone in Purkinje cell survival. *Proc. Natl. Acad. Sci. USA.*, 109, 2012, 21110-21115.

S. Anjum, K. Tsutsui, 他 2 名、4 番目. Localization of gonadotropin-releasing hormone (GnRH), gonadotropin-inhibitory hormone (GnIH), kisspeptin and GnRH receptor and their possible roles in testicular activities from birth to senescence in mice. *J. Exp. Zool. Part A.*, 9999A, 2012, 1-15.

F. Toyoda, K. Tsutsui, 他 4 名、5 番目. Involvement of a neurosteroid, 7 $\alpha$ -hydroxypregnenolone in the courtship behavior performed by the male newt, *Cynops pyrrhogaster*. *Horm. Behav.*, 62, 2012, 375-380.

S. M. Losa-Ward, K. Tsutsui, 他 4 名、5 番目. Disrupted organization of RFamide pathways in the hypothalamus is associated with advanced puberty in female rats neonatally exposed to Bisphenol A. *Biol. Reprod.*, 87, 2012, 1-9.

D. Daukss, K. Tsutsui, 他 4 名、5 番目. Effects of lamprey PQRamide peptides on brain gonadotropin-releasing hormone concentrations and pituitary gonadotropin- $\beta$  mRNA expression. *Gen. Comp. Endocrinol.*, 177, 2012, 215-219.

V. S. Chowdhury, K. Tsutsui, 他 5 名、6 番目. Hypothalamic gonadotropin-inhibitory hormone precursor mRNA is increased during depressed food intake in heat-exposed chicks. *Comp. Biochem. Physiol. Part A.*, 162, 2012, 227-233.

T. Osugi, K. Tsutsui, 他 5 名、7 番目. Evolutionary origin of the structure and function of gonadotropin-inhibitory hormone: Insights from lampreys. *Endocrinology*, 153, 2012, 2362-2374.

N. Treen, K. Tsutsui, 他 9 名、10 番目. Mollusc gonadotropin-releasing hormone directly regulates gonadal functions: A primitive endocrine system controlling reproduction. *Gen. Comp. Endocrinol.*, 176, 2012, 167-72.

Y. L. Son, K. Tsutsui, 他 2 名、4 番目. Gonadotropin-inhibitory hormone inhibits GnRH-induced gonadotropin subunit gene transcriptions by inhibiting AC/cAMP/PKA-dependent ERK pathway in L $\beta$ T2 cells. *Endocrinology*, 153, 2012, 2332-2343.

Y. Morita, K. Tsutsui, 他 13 名、14 番目. Resveratrol promotes expression of SIRT1 and StAR in rat ovarian granulosa cells: an implicative role of SIRT1 in the ovary. *Reprod. Biol. Endocrinol.*, 10, 2012, 14-24.

H. Oishi, K. Tsutsui, 他 6 名、5 番目. The human gonadotropin-inhibitory hormone ortholog RFamide-related peptide-3 suppresses gonadotropin-induced progesterone production in human granulosa cells. *Endocrinology*, 153, 2012, 3435-3445.

T. Iwasa, K. Tsutsui, 他 9 名、11 番目. Developmental changes in the mammalian gonadotropin-inhibitory hormone (GnIH) ortholog RFamide-related peptide (RFRP) and its cognate receptor GPR147 in the rat hypothalamus. *Int. J. Dev. Neurosci.*, 30, 2012, 31-37.

T. Ubuka, K. Tsutsui, 他 12 名、12 番目. RNA interference of gonadotropin-inhibitory hormone gene induces arousal in songbirds. *PLoS ONE*, 7, 2012, e30202.

S. Haraguchi, K. Tsutsui, 他 7 名、9 番目. Acute stress increases the synthesis of 7 $\alpha$ -hydroxypregnenolone, a new key neurosteroid stimulating locomotor activity, through corticosterone action. *Endocrinology*, 153, 2012, 794-805.

T. Ubuka, K. Tsutsui, 他 3 名、5 番目. Identification, expression, and physiological functions of Siberian hamster gonadotropin-inhibitory hormone. *Endocrinology*, 153, 2012, 373-385.

- K. Tsutsui, 他 3 名. Review: Regulatory mechanisms of gonadotropin-inhibitory hormone (GnIH) synthesis and release in photoperiodic animals. *Front. Endocrinol.*, 2013, in press
- T. Ubuka, K. Tsutsui, 他 1 名、3 番目. Review: Neuroendocrine regulation of gonadotropin secretion in seasonally breeding birds. *Front. Endocrinol.*, 2013, in press
- K. Tsutsui, 他 3 名. Review:  $7\alpha$ -Hydroxypregnenolone, a new key stimulator of locomotor activity: biosynthesis, mode of action and functional significance. *Front. Neuroendocrinol.*, 2013, in press
- K. Ukena, K. Tsutsui, 他4名、6番目. Minireview: Identification, localization and function of a novel neuropeptide, 26RFa, and its cognate receptor, GPR103 in the avian hypothalamus. *Gen. Comp. Endocrinol.*, 2013, in press
- T. Ubuka, K. Tsutsui, 他3名、5番目. Minireview: Gonadotropin-inhibitory hormone (GnIH), GnIH receptor and cell signaling. *Gen. Comp. Endocrinol.*, 2013, in press
- T. Ubuka, K. Tsutsui, 他 4 名、6 番目. Review: RNA interference of gonadotropin-inhibitory hormone gene induces aggressive and sexual behaviors in birds. *Gen. Comp. Endocrinol.*, 181, 2013, 179-186.
- V. S. Chowdhury, K. Tsutsui, 他 1 名、3 番目. Review: Melatonin stimulates the synthesis and release of gonadotropin-inhibitory hormone in birds. *Gen. Comp. Endocrinol.*, 181, 2013, 175-178.
- K. Tsutsui. Review: Create new research directions in comparative endocrinology from Asia and Oceania. *Gen. Comp. Endocrinol.*, 181, 2013, 192-196.
- H. Vaudry and K. Tsutsui. Editorial: Research Topic on Neurosteroids. *Front. Endocrinol.*, 3, 2012, article 126, 1.
- T. Ubuka, K. Tsutsui, 他 2 名、4 番目. Review: Gonadotropin-inhibitory hormone action in the brain and pituitary. *Front. Endocrinol.*, 3, 2012, article 148, 1-13.

K. Tsutsui, 他 3 名. Review: Gonadotropin-inhibitory hormone (GnIH): discovery, progress and prospect. *Gen. Comp. Endocrinol.*, 177, 2012, 305-314.

K. Tsutsui. Review: Neurosteroid biosynthesis and action during cerebellar development. *Cerebellum*, 11, 2012, 414-415.

S. Haraguchi, K. Tsutsui, 他4名、6番目. Review: Estradiol promotes Purkinje dendritic growth, spinogenesis and synaptogenesis during neonatal life by inducing the expression of BDNF. *Cerebellum*, 11, 2012, 416-417.

K. Tsutsui, 他 5 名. Review: Control of circadian activity of birds by the interaction of melatonin with  $7\alpha$ -hydroxypregnenolone, a newly discovered neurosteroid stimulating locomotion. *J. Ornitol.*, 153 (Suppl), 2012, S235-S243.

K. Tsutsui, 他 5 名. Review:  $7\alpha$ -Hydroxypregnenolone, a new key regulator of amphibian locomotion: discovery, progress and prospect. *Gen. Comp. Endocrinol.*, 176, 2012, 440-447.

J. L. Do Rego, K. Tsutsui, 他 8 名、8 番目. Review: Regulation of neurosteroid biosynthesis by neurotransmitters and neuropeptides. *Front. Endocrinol.*, 3, 2012, article 4, 1-15.

K. Tsutsui. Neurosteroids and synaptic formation in the cerebellum. *In: Handbook of Cerebellum and Cerebellar Disorders*, M. Manto, 他 4 名 (eds), Springer, 2013, pp. 993-1012.

K. Tsutsui and T. Ubuka. Gonadotropin-inhibitory hormone (GnIH). *In: The Handbook of Biologically Active Peptides (2nd edition)*, A. J. Kastin (ed), Elsevier publisher, 2013, pp. 802-811.

J. Leprince, K. Tsutsui, 他 7 名、8 番目. 26RFa. *In: The Handbook of Biologically Active Peptides (2nd edition)*, A. J. Kastin (ed), Elsevier publisher, 2013, pp. 917-923.



H. Vaudry and K. Tsutsui. *The E-Book of Neurosteroids: Frontiers Research Topic*. Published by Frontiers in Endocrinology., 2012, 476 pp.

<http://flashbook.frontiersin.org/clients/Frontiers/Neurosteroids/EBook.html>

筒井和義, *Kokua* 総説：生殖を制御する新規脳ホルモンの作用機構と発現制御機構 *Current Topics* 「New Insights of Molecular Genetics on Growth Disorders」, ファイザー社, 2012, 7: 13.

筒井和義, 他 4 名. 比較内分泌学 総説:生殖を制御する新規脳ホルモン GnIH の起源と分子進化, *38*, 2012, 76-83.

筒井和義, *Clinical Neuroscience* 「ニューロペプチド-update」生殖腺刺激ホルモン放出抑制ホルモン, 30 巻 2 号, 中外医学社, 223-225.

常田 聡

K. A. Salam, S. Tsuneda, 他 10 名、4 番目. Inhibition of hepatitis C virus NS3 helicase by manoalide, *J. Nat. Prod.*, 75(4), 2012,650-654.

A. Terada, S. Tsuneda, 他 3 名、4 番目. The effect of surface charge property on *Escherichia coli* initial adhesion and subsequent biofilm formation, *Biotechnol. Bioeng.*, 109(7), 2012,1745-1754.

T. Osaka, S. Tsuneda, 他 4 名、5 番目. Temperature dependence for anammox bacteria enriched from freshwater sediments, *J. Biosci. Bioeng.*, 114(4), 2012,429-434.

Y. Fujimoto, S. Tsuneda, 他 19 名、16 番目. Inhibition of both protease and helicase activities of hepatitis C virus NS3 by an ethyl acetate extract of marine sponge *Amphimedon sp.*, *PLoS ONE*, 7(11), 2012, e48685

Y. Tamura, S. Tsuneda, 他 6 名、6 番目. Detection of pre-mRNA splicing in vitro by an RNA-templated fluorogenic reaction, *Bioorganic & Medicinal Chemistry Letters*, 22(23), 2012, 7248-7251.

土肥 多惠子

T. Okada, T. Dohi, 他15名、17番目. Microbiota derived lactate accelerates colon epithelial cell turnover in starvation-refed mice. *Nature Communications*, 2013, In press.

A. Son, T. Dohi, 他10名、12番目. TWEAK/Fn14 pathway promotes a T helper 2-type chronic colitis with fibrosis in mice. *Mucosal Immunol*, 2013, In press.

K. Inagaki-Ohara, T. Dohi, 他7名、7番目. Enhancement of leptin receptor signaling by SOCS3 deficiency induces development of gastric tumors in mice. *Oncogene*, 2013, In press.

D. Tsubokawa, T. Dohi, 他10名、9番目. The monoclonal antibody HCM31 specifically recognises the Sda tetrasaccharide in goblet cell mucin. *FEBS Open Bio*, 2, 2012, 223-233.

K. Miyazaki, T. Dohi, 他10名、11番目. Colonic epithelial cells express specific ligands for mucosal macrophage immunosuppressive receptors siglec-7 and -9. *J. Immunol*, 188, 2012, 4690-700.

R. Kawashima, T. Dohi, 他6名、8番目. Comprehensive analysis of chemokines and cytokines secreted in the peritoneal cavity during laparotomy. *J Immunoassay Immunochem*, 33, 2012, 291-301.

T. Dohi, LC. Burkly. The TWEAK/Fn14 pathway as an aggravating and perpetuating factor in inflammatory diseases; focus on inflammatory bowel diseases. *J Leukoc Biol*, 92, 2012, 265-279.

中村 正久

M. Nakamura. Is a sex-determining gene necessary for sex determination in amphibians? -steroid hormones may be the key factor(Review). *Sex Dev*, 7, 2013, 104-114.

T. A. Thamamongood, M. Nakamura, 他3名、3番目. Expression of osteoblastic and osteoclastic genes during spontaneous regeneration and autotransplantation of goldfish scale: a new tool to study intramembranous bone regeneration. *Bone*, 50, 2012, 1240-1249.

松田 浩珍・田中 あかね

Y. Amagai, A. Tanaka, H. Matsuda, 他 7 名、2, 9 番目. Increased expression of the antiapoptotic protein MCL1 in canine mast cell tumors. *J Vet Med Sci.*, 2013, In press.

Y. Amagai, A. Tanaka, H. Matsuda, 他 4 名、2, 6 番目. The Phosphoinositide 3-kinase pathway is crucial for the growth of canine mast cell tumors. *J Vet Med Sci.*, 2013, In press.

A. Tanaka, H. Matsuda, 他 9 名、1, 11 番目. Daily intake of Jeju groundwater improves the skin condition of the model mouse for human atopic dermatitis. *J Dermatol.*, 40(3), 2013, 193–200.

Y. Amagai, A. Tanaka, H. Matsuda, 他 4 名、2, 6 番目. Stem cell factor contributes to tumorigenesis of mast cells via an autocrine/paracrine mechanism. *J Leukoc Biol.*, 93(2), 2013, 245–250.

T. Furusaka, A. Tanaka, H. Matsuda, 他 3 名、3, 4 番目. Superselective intra-arterial chemotherapy for laryngeal preservation in carcinoma of the anterior oropharyngeal wall. *Acta Otolaryngol.*, 133(2), 2013, 194–202.

G. Ahn, H. Matsuda, A. Tanaka, 他 8 名、6, 7 番目. The JNK/NFκB pathway is required to activate murine lymphocytes induced by a sulfated polysaccharide from *Ecklonia cava*. *Biochim Biophys Acta.*, 1830(3), 2012, 2820–2829.

K. Ohmori, A. Tanaka, H. Matsuda, 他 8 名、9, 10 番目. Circadian rhythms and the effect of glucocorticoids on expression of the clock gene period1 in canine peripheral blood mononuclear cells. *Vet J.*, S1090-0233(12), 2012, 00432-7.

T. Furusaka, A. Tanaka, H. Matsuda, 他 3 名、3, 4 番目. Efficacy of multidrug superselective intra-arterial chemotherapy (docetaxel, cisplatin, and 5-fluorouracil) using the Seldinger technique for tongue cancer. *Acta Otolaryngol.*, 132(10), 2012, 1108-14.

A. Matsuda, A. Tanaka, H. Matsuda, 他 12 名、2, 14 番目. Supplementation of the fermented soy product ImmuBalance™ effectively reduces itching behavior of atopic NC/Tnd mice. *J Dermatol Sci.*, 67(2), 2012, 130-9.

A. Tanaka, H. Matsuda, 他 2 名、1, 4 番目. Recent findings in mouse models for human atopic dermatitis. *Exp Anim.*, 61(2), 2012, 77-84.

南沢 亨

Q. Jiao, S. Minamisawa, 他 2 名、4 番目. Sarcalumenin plays a critical role in age-related cardiac dysfunction due to decreases in SERCA2a expression and activity. *Cell Calcium*. 51(1), 2012, 31-9.

U. Yokoyama, S. Minamisawa, 他 16 名、17 番目. Inhibition of EP4 signaling attenuates aortic aneurysm formation. *PLoS One*. 7(5), 2012,e36724.

T. Yokota, S. Minamisawa, 他 4 名、6 番目. Low-dose thromboxane A2 receptor stimulation promotes closure of the rat ductus arteriosus with minimal adverse effects. *Pediatr Res*. 72(2),2012,129-36.

横山詩子、南沢亨、他 3 名、4 番目. 三次元血管モデルを用いた動脈硬化性疾患の機序解明. *科学と工業* 86(9), 2012, 329-35. (解説) .

宮浦 千里

Y. Nishide, C. Miyaura, 他 6 名、7 番目. Possible role of S-equol on bone loss via amelioration of inflammatory indices in ovariectomized mice. *J. Clin. Biochem. Nutr.*, 2013, In press

C. Matsumoto, C. Miyaura, 他 8 名、10 番目. The protective effects of  $\beta$ -cryptoxanthin on inflammatory bone resorption in a mouse experimental model of periodontitis. *Biosci. Biotechnol. Biochem.*, 2013, In press

Y. Nishide, C. Miyaura, 他 3 名、4 番目. Bi-phasic effect of equol on adipocyte differentiation of MC3T3-L1 cells. *Biosci. Biotechnol. Biochem.*, 77, 2013, 201-204.

S. Miyamoto, C. Miyaura, 他 6 名、7 番目. Bombyx mori silk fibroin scaffolds for bone regeneration studied by bone differentiation experiment. *J. Biosci. Bioeng.*, JBIOSC-D-12-00566R2, 2012

C. Matsumoto, C. Miyaura, 他 5 名、6 番目. Toll-like receptor 2 heterodimers, TLR2/6 and TLR2/1, induce prostaglandin E production by osteoblasts, osteoclast formation and inflammatory periodontitis. *Biochem. Biophys. Res. Commun.*, 428(1), 2012, 110-115.

J. Abe, C. Miyaura, 他 10 名、11 番目. Synthesis of vitamin D(3) derivatives with nitrogen-linked substituents at A-ring C-2 and evaluation of their vitamin D receptor-mediated transcriptional activity. *Org Biomol Chem.*, 10, 2012, 7826-7839.

T. Tominari, C. Miyaura, 他 3 名、5 番目. Polymethoxy flavonoids, nobiletin and tangeretin, prevent lipopolysaccharide-induced inflammatory bone loss in an experimental model for periodontitis. *J. Pharmacol. Sci.*, 119, 2012, 390-394.

M. Kobayashi, C. Miyaura, 他 4 名、6 番目. The correlation between postmenopausal osteoporosis and inflammatory periodontitis regarding bone loss in experimental models. *Exp. Anim.*, 61(2), 2012, 183-187.

M. Kobayashi, C. Miyaura, 他 6 名、8 番目. Capsaicin, a TRPV1 ligand, suppresses bone resorption by inhibiting the prostaglandin E production of osteoblasts, and attenuates the inflammatory bone loss induced by lipopolysaccharide. ISRN. *Pharmacol.*, 439860, 2012