

研究発表

Publications

Experimental Animal Division

Journals in English or non-Japanese (Peer reviewed)

Kasahara T, Abe K, Mekada K, Yoshiki A, Kato T, "Genetic variation of melatonin productivity in laboratory mice under domestication" *Proc Natl Acad Sci USA* 107: 6412-6417 (2010)

Oota S, Mekada K, Fujita Y, Humphries J, Fukami K, Obata Y, Rowe T, Yoshiki A, "Four-dimensional quantitative analysis of the ait of mutant mice using coarse-grained motion capture" in *Proc EMBS '09 31st Annual International Conference of the IEEE* 5227-5230 (2009)

Yoshiki A, "Dissemination of Advanced Mouse Resources and Technologies at RIKEN BioResource Center" *Interdisciplinary Bio Central* 2 15: 1-5 (2010)

Masuya H, Makita Y, Kobayashi N, Nishikata K, Yoshida Y, Mochizuki Y, Doi K, Takatsuki T, Waki K, Tanaka N, Ishii M, Matsushima A, Takahashi S, Hijikata A, Kozaki K, Furuichi T, Kawaji H, Wakana S, Nakamura Y, Yoshiki A, Murata T, Fukami K, Kobayashi K, Mohan S, Ohara O, Hayashizaki Y, Mizoguchi R, Obata Y, Toyoda T, "The RIKEN integrated database of mammals" *Nucleic Acids Res* 39: D861-870. Epub 2010 Nov 13 (2011)

Osipova DV, Kulikov AV, Mekada K, Yoshiki A, Moshkin MP, Kotenkova EV, Popova NK, "Distribution of the C1473G polymorphism in tryptophan hydroxylase 2 gene in laboratory and wild mice" *Genes Brain Behav* 9: 537-543 (2010)

Pan J, Nakade K, Huang YC, Zhu ZW, Masuzaki S, Hasegawa H, Murata T, Yoshiki A, Yamaguchi N, Lee CH, Yang WC, Tsai EM, Obata Y, Yokoyama K, "Suppression of cell-cycle progression by Jun dimerization protein-2 (JDP2) involves downregulation of cyclin-A2" *Oncogene* 29: 6245-6256. (2010)

Kitagawa Y, Tohya Y, Ike F, Kajita A, Park SJ, Ishii Y, Kyuwa S, Yoshikawa Y, "Indirect ELISA and indirect immunofluorescent antibody assay for detecting the antibody against murine norovirus S7 in mice" *Exp Anim* 59: 47-55 (2010)

Yamazaki Y, Akashi R, Banno Y, Endo T, Ezura H, Fukami-Kobayashi K, Inaba K, Isa T, Kamei K, Kasai F, Kobayashi M, Kurata N, Kusaba M, Matuzawa T, Mitani S, Nakamura T, Nakamura Y, Nakatsuji N, Naruse K, Niki H, Nitasaka E, Obata Y, Okamoto H, Okuma M, Sato K, Serikawa T, Shiroishi T, Sugawara H, Urushibara H, Yamamoto M, Yaoita Y, Yoshiki A, Kohara Y, "NBRP databases: databases of biological resources in Japan" *Nucleic Acids Research* 38: D26-D32 (2009)

International Conferences (Invited)

Yoshiki A, "The genetic quality and phenotypic data of genetically-modified mouse strains" 2010 KALAS International Symposium Busan Korea, Aug. 2010

Yoshiki A, "Dissemination of advanced mouse resources and technologies around Asia" 2nd Meeting of Asian Network of Research Resource Centers Tsukuba Japan, Oct. 2010

Yoshiki A, "The current status of mouse resources at RIKEN BioResource Center in 2010" 5th AMMRA Council Meeting Taipei Taiwan, Nov. 2010

Yoshiki A, "Advanced Mouse Resources at RIKEN BioResource Center" 4th AFLAS Congress Meeting/5th AMMRA Annual Meeting/11th CSLAS Annual Meeting Taipei Taiwan, Nov. 2010

Ike F, "Lymphocytic Choriomeningitis virus: What We Have Learned and What We Should Know" 4th AFLAS Congress Meeting/5th AMMRA Annual Meeting/11th CSLAS Annual Meeting Taipei Taiwan, Nov. 2010

Oota S, Yoshiki A, Yokota H, Obata Y, Nakamura Y, Himeno R, "Of Mice and Men: Biomechanical Modeling as a Tool to Translate Bone Biology Research into Clinical Practice" The 10th World Congress of Bioethics (WCB) Singapore, Jul. 2010

Yoshiki A, Obata Y, "RIKEN BRC Cre drivers production" 2nd CREATE Annual Workshop and International Coordination Group (ICG) Meeting Rome Italy, May 2010

Experimental Plant Division

Journals in English or non-Japanese (Peer reviewed)

Sugimoto K, Takeuchi Y, Ebana K, Miyao A, Hirochika H, Hara N, Ishiyama K, Kobayashi M, Ban Y, Hattori T, Yano M, "Molecular cloning of *Sdr4*, a regulator involved in seed dormancy and domestication of rice" *Proc Natl Acad Sci USA* 107: 5792-5797 (2010)

Hatakeyama K, Horisaki A, Niikura S, Narusaka Y, Abe H, Yoshiaki H, Ishida M, Fukuoka H, Matsumoto S, "Mapping of quantitative trait loci for high level of self-incompatibility in *Brassica rapa* L" *Genome* 53: 257-265 (2010)

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Kobayashi T, Nagayama Y, Higashi K, Kobayashi M, "Establishment of a tissue culture system for somatic embryogenesis from germinating embryos of it *Arabidopsis thaliana*" *Plant Biotech* 27: 359-364 (2010)

Kobayashi M, "Overview of *Arabidopsis* Resource Project in Japan" *Interdisciplinary Bio Central* 3 Article No. 2: 1-4 (2011)

Kurata N, Satoh H, Kitano H, Nagato Y, Endo T, Sato K, Akashi R, Ezura H, Kusaba M, Kobayashi M, Nitasaka E, Kasai F, Yamazaki Y, Yoshimura A, "NBRP, National Bioresource Project of Japan and plant bioresource management" *Breeding Science* 60: 461-468 (2010)

International Conferences (Invited)

Kobayashi M, Kondou Y, Higuchi M, Ichikawa T, Matsui M, "Japanese resource project on *Arabidopsis* - outlines and introduction of FOX lines" 21st International Conference on *Arabidopsis* Research (ICAR 2010) Yokohama Japan, Jun. 2010

Domestic Conferences (Invited)

Kobayashi M, "Arabidopsis resources established by 2010 Project and trends of plant research that should be considered in the next term of NBRP project" 2nd Plant Stress Science Symposium Kurashiki Japan, Mar. 2010

Cell Engineering Division

Journals in English or non-Japanese (Peer reviewed)

Danjoh I, Saijo K, Hiroshima T, Nakamura Y, "The Sonoda-Tajima Cell Collection a human genetics research resource with emphasis on South American indigenous populations" *Genome Biol Evol* 3: 272-283 (2011)

Masuya H, Makita Y, Kobayashi N, Nishikata K, Yoshida Y, Mochizuki Y, Doi K, Takatsuki T, Waki K, Tanaka N, Ishii M, Matsushima A, Takahashi S, Mizoguchi R, Kozaki K, Furuichi T, Kawaji H, Wakana S, Nakamura Y, Yoshiki A, Murata T, Fukami-Kobayashi K, Mohan S, Ohara O, Hayashizaki Y, Obata Y, Toyoda T, "The RIKEN integrated database of mammals" *Nucl Acids Res* 39: D861-870 (2011)

Nakamura Y, Hiroshima T, Miharada K, Kurita R, "Red blood cell production from immortalized progenitor cell line" *Int J Hematol* 93: 5-9 (2011)

Yoshino K, Saijo K, Noro C, Nakamura Y, "Development of a simple method to determine the mouse strain from which cultured cell lines originated" *Interdisciplinary Bio Central* 2 Article No. 14: 1-9 (2010)

Fujioka T, Shimizu N, Miyoshi H, Nakamura Y, "Establishment of induced pluripotent stem cells from human neonatal tissues" *Hum Cell* 23: 113-118 (2010)

Capes-Davis A, Theodosopoulos G, Atkin I, Drexler H.G, Kohara A, MacLeod R.A.F, Master J.R, Nakamura Y, Reid Y.A, Reddel R.R, Freshney R.I, "Check your cultures! A list of cross-contaminated or misidentified cell lines" *Int J Cancer* 127: 1-8 (2010)

Sudo K, Yasuda J, Nakamura Y, "Gene expression profiles of cryopreserved CD34+ human umbilical cord blood cells are related to their bone marrow reconstitution abilities in mouse xenografts" *Biochem Biophys Res Commun* 397: 697-705 (2010)

Yamazaki Y, Akashi R, Banno Y, Endo T, Ezura H, Fukami-Kobayashi K, Inaba K, Isa T, Kamei K, Kasai F, Kobayashi M, Kurata N, Kusaba M, Matsuzawa T, Mitani S, Nakamura T, Nakamura Y, Nakatsuji N, Naruse K, Niki H, Nitasaka E, Obata Y, Okamoto H, Okuma M, Sato K, Serikawa T, Shiroishi T, Sugawara H, Urushibara H, Yamamoto M, Yaoita Y, Yoshiki A, Kohara Y, "NBRP database: databases of biological resources in Japan" *Nucleic Acids Research* 38: D26-D32 (2010)

Dirks W.G, MacLeod R.A, Nakamura Y, Kohara A, Reid Y, Milch H, Drexler H.G, Mizusawa H, “Cell line cross-contamination initiative: an interactive reference database of STR profiles covering common cancer cell lines” Int J Cancer 126: 303-304 (2010)

Nakamura Y, “Induced pluripotent stem (iPS) cells offer a powerful new tool for the life sciences” J. Stem Cells Regen Med 6: 1-8 (2010)

Nakamura Y, “Bio-resource of human and animal-derived cell materials” Exp Anim 59: 1-7 (2010)

Ishigaki T, Sudo K, Hiroshima T, Miharada K, Ninomiya H, Chiba S, Nagasawa T, Nakamura Y, “Human hematopoietic stem cells can survive in vitro for several months” Adv Hematol 2009: ID936761 (open access journal) (2009)

Tamagawa T, Ishiwata I, Sato K, Nakamura Y, “Induced in vitro differentiation of pancreatic-like cells from human amnion-derived fibroblast-like cells” Hum Cell 22: 55-63 (2009)

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Andrews P W, Arias-Diaz J, Auerbach J, Alvarez M, Ahrlund-Richter L, Baker D, Benvenisty N, Ben-Josef D, Blin G, Borghese L, Borstlap J, Bruce K, Brustle O, Buckle R, Carter P, Camby C, Choo A, Chen W, Collins D, Colman A, Crombie C, Crook J, Cypess R, De Sousa P, Dhawan J, Douay L, Dvorak P, Dyke T, Eriksson L, Firpo M, Fitzgerald C, Glover C, Gokhale P, Greene M, Ha H-Y, Hampl A, Healy L, Hei D, Holm F, Hovatta O, Hunt C, Hwang S-M, Inamdar M, Isasi R, Iskowitz-Eldor J, Jessie N, Kim D-W, Kirzner R, Kitpongsang S, Knowles B, Kuo H-C, Laughlin M, Lavon N, Ludwig T, Lakov M, Lee D-R, Macauley J, McKay R, Menasche P, Menendez P, Michalska A, Mileikovsky M, Minger S, Mishra G, Moody J, Montgomery K, Morris C, Mummery C, Nagy A, Nakamura Y, Nakatsuji N, Nishikawa S-I, Nierras C, Oh S, Oh S K, Olson P, Otonkoski T, Patole M, Park H-S, Pei X, Pera M, Puceat M, Rajala K, Reubinoff B, Robbins A, Rooke H, Rumayor V, Scotmann H, Sherlock J, Simon C, Stacey G, Sipp, D, Skinner R, Smith D, Stefanovic S, Strehl R, Taft R, Takahashi T, Talib S, Terstegge S, Turner R, Tuuri T, Yu J, Zandstra P, Zapata A, Zeng F, Zhou Q, “International Stem Cell Banking Initiative. Consensus guidance for banking and supply of human embryonic stem cell lines for research purposes” Stem Cell Rev 5: 301–314 (2009)

International Conferences (Invited)

Nakamura Y, “in vitro Production of Transfusable Red Blood Cells” 23rd Transfusion Medicine Conference Kanagawa Japan, Jan. 2009

Nakamura Y, “Cell Bank in Japan” SNAP Meeting Kobe Japan, Feb. 2009

Nakamura Y, “Simple Sequence Length Polymorphism (SSLP) analysis to determine the mouse strain from which mouse cell lines are derived” 2009 in vitro Biology Meeting Charleston South Carolina USA, Jun. 2009

Nakamura Y, “Human Cell Resources in Japan” 1st ANRRC Seoul Korea, Sep. 2009

Nakamura Y, “Cell Bank in Japan” 1st ANRRC Seoul Korea, Sep. 2009

Nakamura Y, “in vitro Production of RBCs from Stem Cells & Stem Cell Banking in Japan” 4th Anniversary of Nichi-In Center for Regenerative Medicine Chennai India, Sep. 2009

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Nakamura Y, “in vitro Production of Transfusable Red Blood Cells” JSH International Symposium Akita Japan, Jul. 2010

Nakamura Y, “Human Cell Resources in RIKEN BRC” 2nd Meeting of Asian Network of Research Resource Centers Tsukuba Japan, Oct. 2010

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Gene Engineering Division

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Yokoyama K, Murata T, Pan Jianzhi, Nakade K, Kishikawa S, Ugai H, Kimura M, Kujime Y, Sakayori M, Masuzaki S, Yamasaki T, Kurihara C, Okubo M, Nakano Y, Kusa Y, Yoshikawa A, Inabe K, Ueno K, Obata Y, “Genetic Materials at

the Gene Engineering Division, RIKEN BioResource Center” Exp Anim 59: 115-124 (2010)

Nakade K, Wasylyk B, Yokoyama K, “Epigenetic regulation of p16^{Ink4a} and Arf by JDP2 in cellular senescence” BioMolecular Concepts 1: 49-58 (2010)

Nakade K, Pan J, Yamasaki T, Noguchi M, Masuzaki S, Kishikawa S, Murata T, Zhu Zhi Wei, Chen Xiao Yu, Hasegawa H, Yamaguchi N, Tsai Eing Mei, Lee Jan Nan, Yokoyama K, “Role of histone chaperone JDP2 in replicative senescence” Current Topics in Biochemical Research 11: 75-97 (2009)

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Masuya H, Makita Y, Kobayashi N, Nishikata K, Yoshida Y, Mochizuki Y, Doi K, Takatsuki T, Waki K, Tanaka N, Ishii M, Matsushima A, Takahashi S, Hijikata A, Kozaki K, Furuichi T, Kawaji H, Wakana S, Nakamura Y, Yoshiki A, Murata T, Fukami K, Sujatha S Mohan, Ohara O, Hayashizaki Y, Obata Y, Toyoda T, “The RIKEN integrated database of mammals” Nucleic Acids Research 39: D861-D870 (2011)

Microbe Division

Journals in English or non-Japanese (Peer reviewed)

Koyanagi T, Sakamoto M, Takeuchi Y, Ohkuma M, Izumi Y, “Analysis of microbiota associated with peri-implantitis using 16S rRNA gene clone library” J Oral Microbiol 2: 5104 (2010)

Yang Y, Itoh T, Yokobori S, Shimada H, Itahashi S, Satoh K, Ohba H, Narumi I, Yamagishi A, “*Deinococcus aetherius* sp. nov. isolated from the stratosphere” Int J Syst Evol Microbiol 60: 776-779 (2010)

Chamroensaksri N, Tanasupawat S, Akaracharaya A, Visessanguan W, Kudo T, Itoh T, “*Gracilibacillus thailandensis* sp. nov., from fermented fish (*pla-ra*)” Int J Syst Evol Microbiol 60: 944-948 (2010)

Burns D G, Janssen P H, Itoh T, Minegishi H, Usami R, Kamekura M, Dyall-Smith M L, “*Natronomonas moolapensis* sp. nov., non-alkaliphilic isolates recovered from a solar saltern crystallizer pond, and emended description of the genus

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Nakazawa Y, Suzuki R, Uchino M, Sagane Y, Kudo T, Nagai T, Sato H, Takano K, “Identification of actinomycetes producing phospholipase D with high transphosphatidylase activity” Curr Microbiol 60: 365-372 (2010)

Obata T, Goto Y, Kunisawa J, Sato S, Sakamoto M, Setoyama H, Matsuki T, Nonaka K, Shibata N, Gohda M, Kagiya Y, Nochi T, Yuki Y, Fukuyama Y, Mukai A, Shinzaki S, Fujihashi K, Sasakawa C, Iijima H, Goto M, Umesaki Y, Benno Y, Kiyono H, “Indigenous opportunistic bacteria inhabit mammalian gut-associated lymphoid tissues and share a mucosal antibody-mediated symbiosis” Proc Natl Acad Sci USA 107: 7419-7424 (2010)

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Nakase T, Imanishi Y, Ninomiya S, Takashima M, “*Candida rishirensis* sp. nov. a novel methylotrophic anamorphic yeast species isolated from soil on Rishiri Island in Japan” J Gen Appl Microbiol 56: 169-173 (2010)

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Sakamoto M, Ohkuma M, “Usefulness of the *hsp60* gene for the identification and classification of Gram-negative anaerobic rods” *J Med Microbiol* 59: 1293-1302 (2010)

Okabe S, Oshiki M, Kamagata Y, Yamaguchi N, Toyofuku M, Yawata Y, Tashiro Y, Nomura N, Ohta H, Ohkuma M, Hiraishi A, Minamisawa K, “A great leap forward in microbial ecology” *Microbes Environ* 25: 230-240 (2010)

Sakamoto M, Suzuki N, Benno Y, “*hsp 60* and 16S rRNA gene sequence relationships among species of the genus *Bacteroides* with the finding that *Bacteroides suis* and *Bacteroides tectus* are heterotypic synonyms of *Bacteroides pyogenes*” *Int J Syst Evol Microbiol* 60: 2984-2990 (2010)

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Minegishi H, Kamekura M, Itoh T, Echigo A, Usami R, Hashimoto T, “Further refinement of the phylogeny of the *Halobacteriaceae* based on the full-length RNA polymerase subunit B' (*rpoB'*) gene” *Int J Syst Evol Microbiol* 60: 2398-2408 (2010)

Shintani M, Takahashi Y, Yamane H, Nojiri H, “The behavior and significance of degradative plasmids belonging to Inc groups in *Pseudomonas* within natural environments and microcosms” *Microbes Environ* 25: 253-265 (2010)

Suzuki R, Zhang Yi, Iino T, Kosako Y, Komagata K, Uchimura T, “*Asaia astilbes* sp.nov. *Asaia platycodi* sp.nov., and *Asaia prunellae* sp.nov., novel acetic acid bacteria isolated from flowers in Japan” *J Gen Appl Microbiol* 56: 339-346 (2010)

Iino T, Mori K, Suzuki K, “*Methanospirillum lacunae* sp. nov. a methane-producing archaeon isolated from a puddly soil, and emended descriptions of the genus *Methanospirillum* and *Methanospirillum hungatei*” *Int J Syst Evol Microbiol* 60: 2563-2566 (2010)

Takeda T, Yun Choong-Soo, Shintani M, Yamane H, Nojiri H, “Distribution of genes encoding nucleoid-associated protein homologs in plasmids” *Int J Evol Biol* 2011: Article ID 685015 30pages (2011)

Namwong S, Tanasupawat S, Kudo T, Itoh T, “*Haloarcula salaria* sp.nov., and *Haloarcula tradensis* sp.nov., isolated from salt in Thai fish sauce” *Int J Syst Evol Microbiol* 61: 231-236 (2011)

International Conferences (Invited)

Itoh T, “Diversity and biogeographic view of thermophilic archaea isolated from terrestrial hot springs” 2010 International Meeting of the Microbiological Society of Korea Ulsan Korea, May 2010

Ohkuma M, “Improvement of the functions of JCM as a microbial BRC” International Symposium on Management and Utilization of Microbial Resources and Fungal DNA Barcoding Beijing China, Aug. 2010

Ohkuma M, “Complete genomes of uncultured bacterial endosymbionts of cellulolytic protists in the gut of termites” 12th International Conference on Culture Collections (ICCC 12) Florianopolis Brazil, Sep.-Oct. 2010

Ohkuma M, “Complete genome sequence of bacterial endosymbionts of termite-gut protists and exploiting yet-uncultured microbial resources” International Symposium for The Conservation and Sustainable Use of Asian Microbial Resources Tokyo Japan, Oct. 2010

Ohkuma M, “Recent activities of JCM to improve its functions as a microbial BRC” 2nd Meeting of Asian Network of Research Resource Centers Tsukuba Japan, Oct. 2010

Ohkuma M, “Symbioses of cellulolytic protists and their intracellular bacteria in the gut of termites” Microbial diversity and Asian ecosystems, 2nd Japan-Korea International Symposium on Microbial Ecology Tsukuba Japan, Nov. 2010

Itoh T, “Biogeography and genetic diversity of hyperthermophilic archaea, *Vulcanisaeta distributa* and related taxa” Anniversary Conference of the Institute of Biology Bucharest 50 Years of Academic Research in Biology Bucharest Romania, Sep.-Oct. 2010

Domestic Conferences (Invited)

Takashi I, “Fe(III)-reducing bacteria” International Institute for Advanced Studies The 3rd Workshop on Life in the Universe” Systematic Investigations and Research Strategy Kizugawa Japan, Jun. 2010

Takashi I, “Collections and exploitation of the unique microbial resources archaea and related bacteria” The 17th Meeting of Japan Society of Culture Collections Gifu Japan, Jun. 2010

Mitsuo S, “Molecular ecology of human oral microbiota” The 52nd Meeting of Japanese Association of Oral Biology Tokyo Japan, Sep. 2010

Books in English or non-Japanese

Sakamoto M, Tanner Anne, Benno Y, “Genus VII *Tannerella* Sakamoto, Suzuki, Umeda, Ishikawa and Benno 2002, 848” *Bergey's Manual of Systematic Bacteriology Second Edition Volume 4* 2010 12 Springer USA New York 78-85 (2010)

Bioresource Information Division

Journals in English or non-Japanese (Peer reviewed)

Oota S, Mekada K, Fujita Y, Humphries J, Fukami K, Obata Y, Rowe T, Yoshiki A, “Four-dimensional quantitative analysis of the ait of mutant mice using coarse-grained motion capture” in *Proc EMBS '09 31st Annual International Conference of the IEEE* 5227-5230 (2009)

International Conferences (Invited)

Oota S, Yoshiki A, Yokota H, Obata Y, Nakamura Y, Himeno R, “Of Mice and Men: Biomechanical Modeling as a Tool to Translate Bone Biology Research into Clinical Practice” World Congress on Biomechanics (WCB2010) Singapore Singapore, Aug. 2010

Domestic Conferences (Invited)

Oota S, Kawamura K, Kawai Y, Saitou N, “A new framework for studying the isochore evolution” 82nd Annual meeting of The Genetics Society of Japan Sapporo Japan, Sep. 2010

Bioresource Engineering Division

Journals in English or non-Japanese (Peer reviewed)

Kanatsu-Shinohara M, Ogonuki N, Miki H, Inoue K, Morimoto H, Takashima S, Ogura A, Shinohara T, “Genetic influences in mouse spermatogonial stem cell self-renewal” *J Reprod Dev* 56: 145-153 (2010)

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Goto M, Shimada K, Sato A, Takahashi E, Fukasawa T, Takahashi T, Ohka S, Taniguchi T, Honda E, Nomoto A, Ogura A, Kirikae T, Hanaki K, “Rapid detection of *Pseudomonas aeruginosa* in mouse feces by colorimetric loop-mediated isothermal amplification” *J Microbiol Methods* 81: 247-252 (2010)

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Honda A, Hirose M, Hatori M, Matoba S, Miyoshi H, Inoue K, Ogura A, “Generation of induced pluripotent stem cells in rabbits: potential experimental models for human regenerative medicine” *J Biol Chem* 285: 31362-31369 (2010)

Inoue K, Kohda T, Sugimoto M, Sado T, Ogonuki N, Matoba S, Shiura H, Ikeda R, Mochida K, Fujii T, Sawai K, Otte A, Tian Cindy, Yang Xiangzhong, Ishino F, Abe K, Ogura A, “Impeding Xist expression from the active X chromosome improves mouse somatic cell nuclear transfer” *Science* 330: 496-499 (2010)

Fulka H, Hirose M, Inoue K, Ogonuki N, Wakisaka N, Matoba S, Ogura A, Mosko T, Kott T, Fulka Josef, “Production of mouse embryonic stem cell lines from maturing oocytes by direct conversion of meiosis into mitosis” *Stem Cells* 29: 517-527 (2011)

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Mochida K, Ogura A, “Cryopreservation of embryos in laboratory species” *J Mamm Ova Res* 27: 87-92 (2010)

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Mochida K, Hasegawa A, Taguma K, Yoshiki A, Ogura A, "Cryopreservation of mouse embryos by ethylene glycol-based vitrification" *J Vis Exp* (in press)

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Books in Japanese

遺伝子の導入法とノックアウト法 小倉 淳郎, 井上 貴美子, 生命の誕生に向けて (第二版) 近代出版 東京 273-276 (2011)
Ogura A, Inoue K, "Gene transduction and knockout in Assisted Reproductive Technology (2nd edition)" *Kindai Shuppan Tokyo* 273-276 (2011)

顕微授精と体外受精の比較論 小倉 淳郎, 卵子学 (総編集者 森 崇英) 京都大学学術出版会 京都 (印刷中)
Ogura A, "Microinsemination and in vitro fertilization in Oocytology" *Kyoto University Press Kyoto* (in press)

International Conferences (Invited)

Ogura A, "Practical applications of round spermatid injection in mice" Joint Meeting: International Symposium for Immunology of Reproduction (ISIR-Osaka 2010) / 25th Annual Meeting of Japan Society for Immunology of Reproduction Suita Japan, Aug. 2010

Ogura A, Inoue K, "Improvement of somatic cell nuclear transfer in mice: Genetic and epigenetic approaches" Czeck-Japan Joint Symposium for Animal Reproduction :From Gametes To Stem Cells Liblice Czech, Sep. 2010

Ogura A, "Recent technical advancements of nuclear transfer in the mouse" 4th AFLAS Congress Meeting/5th AMMRA Annual Meeting/11th CSLAS Annual Meeting Taipei Taiwan, Nov. 2010

Ogura A, "Critical involvement of aberrant X chromosome inactivation in the defective development of cloned embryos" International Symposium on ``Epigenome Network, Development and Reprogramming of Germ Cells" Fukuoka Japan, Nov. 2010

Mochida K, Hasegawa A, Ogura A, "Novel vitrification method for mouse embryos using a high osmolality solution" The 7th Annual Conference of the Asian Reproductive Biotechnology Society Kuala Lumpur Malaysia, Nov. 2010

Domestic Conferences (Invited)

Ogura A, "The present status and future prospects of somatic cell cloning" Diabetes and Metabolism Research Seminar Kyoto Japan, Mar. 2010

Ogura A, "Isolation and culture of oocytes and soma derived from the ovarian tissue in mice" The 51st annual meeting of the Japanese Society of Mammalian Ova Research Niigata Japan, May. 2010

Ogura A, "Practical applications using germ cells and supporting cells derived from mouse prepubertal ovaries" The 28th annual meeting of the Japan Society of Fertilization and Implantation Yokohama Japan, Jul. 2010

Ogura A, "Twenty years with germ cells" The 5th meeting for germ cell association Hokuto Japan, Dec. 2010

Ogura A, "The present status and future prospects of somatic cell nuclear transfer" Seminar in the Institute of Medical Science University of Tokyo Tokyo Japan, Oct. 2010

Ogura A, "Mouse as a model for the study of somatic cell nuclear transfer" The 108th annual meeting of the Kansai Laboratory Animal Research Association Kyoto Japan, Dec. 2010

Honda A, "Development of techniques for establishment and use of new stem cell lines in laboratory animals" The 58th annual meeting of the Japanese Association for Laboratory Animal Science Tokyo Japan, Dec. 2010

Honda A, "Rabbit pluripotent stem cells" JST CREST/PRESTO Joint Symposium for iPS cells Tokyo Japan, Jan. 2011

Ogura A, "Aberrant expression of X-linked genes in cloned mouse embryos" NARO Symposium on Improvements of Somatic Cell Nuclear Transfer in Bovines Tsukuba Japan, Feb. 2011

Technology and Development Team for Mammalian Cellular Dynamics

Journals in English or non-Japanese (Peer reviewed)

Ebihara S, Tomida S, Mamiya T, Sakamaki H, Miura M, Aosaki T, Masuda M, Niwa M, Kameyama T, Kobayashi J, Iwaki Y, Imai S, Ishikawa A, Abe K, Yoshimura T, Nabeshima T, "Usp46, encoding a ubiquitin specific peptidase, is a quantitative trait gene underlying "behavioral despair" in mice" *Sleep Biol Rhythms* 8: 114-119 (2010)

Watanabe Y, Numata K, Murata S, Osada Y, Saito R, Nakaoka H, Yamamoto N, Watanabe K, Kato H, Abe K, Kiyosawa H, "Genome-wide analysis of expression modes and DNA methylation status at sense-antisense transcript loci in mouse" *Genomics* 96: 333-341 (2010)

Imamura M, Aoki T, Tokumasu A, Mise Nathan, Abe K, Yamanaka S, Noce T, "Induction of primordial germ cells from mouse induced pluripotent stem cells derived from adult hepatocytes" *Mol Reprod Dev* 77: 802-811 (2010)

Chow J, Ciaudo C, Fezzari M, Mise N, Servant N, Glass J, Attreed M, Avner P, Wutz A, Barillot E, Grealley J, Voinnet O, Heard E, "LINE-1 activity in facultative heterochromatin formation during X chromosome inactivation" *Cell* 141: 956-969 (2010)

Kobayashi S, Fujihara Y, Mise N, Kaseda K, Abe K, Ishino F, Okabe M, "The X-linked imprinted gene family *Fthl17* shows predominantly female expression following the two-cell stage in mouse embryos" *Nucleic Acids Res* 38: 3672-3681 (2010)

Wu G, Gentile L, Fuchikami T, Sutter J, Psathaki K, Scholer H, "Initiation of trophectoderm lineage specification in mouse embryos is independent of *Cdx2*" *Development* 137: 4159-4169 (2010)

Numata K, Kohama C, Abe K, Kiyosawa H, "Highly parallel SNP genotyping reveals high-resolution landscape of mono-allelic *Ube3a* expression associated with locus-wide antisense transcription" *Nucleic Acids Res* 39: 2649-2657 (2010)

Inoue K, Kohda T, Sugimoto M, Sado T, Ogonuki N, Matoba S, Shiura H, Ikeda R, Mochida K, Fujii T, Sawai K, Otte AP, Tian XC, Yang X, Ishino F, Abe K, Ogura A, "Impeding *Xist* expression from the active X chromosome improves mouse somatic cell nuclear transfer" *Science* 330: 496-499 (2010)

Ando T, Semba K, Suda H, Sei A, Mizuta H, Araki M, Abe K, Imai K, Nakagata N, Araki K, Yamamura K, "The floor plate is sufficient for development of the sclerotome and spine without the notochord" *Mech Dev* 128: 129-140 (2010)

Saito R, Kohno K, Okada Y, Osada Y, Numata K, Kohama C, Watanabe K, Nakaoka H, Yamamoto N, Kanai A, Yasue H, Murata S, Abe K, Tomita M, Ohkohchi N, Kiyosawa H, "Comprehensive Expressional Analyses of Antisense Transcripts in Colon Cancer Tissues Using Artificial Antisense Probes" *BMC Medical Genomics* in print (2011)

International Conferences (Invited)

Cao Liqin, Abe K, "Intravital molecular imaging of cellular processes in live mice" 4th AFLAS Congress Meeting/5th AMMRA Annual Meeting/11th CSLAS Annual Meeting Taipei Taiwan, Nov. 2010

Subteam for Biosignal Integration

Journals in English or non-Japanese (Peer reviewed)

Nakano H, Sakon-Komazawa S, Zheng D M, Yamashina S, Hanno E, Hara M, Kurihara H, Kojima Y, Pian J H, Ushio H, Doi T, Ueno T, Ezaki J, Pasparakis M, Yagita H, He YW, Okumura K, "Hepatocyte-specific c-Flip-deficient mice uncover a causal link between ROS and STAT3 via IL-11" *J Clin Invest* In press

International Conferences (Invited)

Doi T, Mise S, Fukazawa T, Obata Y, "NF- κ B/RelA is essential for regulatory T cell function through regulation of Foxp3 expression" 14th International Congress of Immunology Kobe Japan 8 2010

Mise S, Fukazawa T, Obata Y, Doi T, "Deficiency of NF- κ B/RelA molecule in hematopoietic cells impairs lymphocyte development and bone metabolism: a possibility on a damage of hematopoietic niche" 14th International Congress of Immunology Kobe Japan 8 2010

Fukazawa T, Mise S, Doi T, "In vitro differentiation of mouse embryonic stem cells to macrophages" 14th International Congress of Immunology Kobe Japan 8 2010

Subteam for Manipulation of Cell Fate

Journals in English or non-Japanese (Peer reviewed)

Ishikawa F, Miyoshi H, Nose K, Shibamura M, "Transcriptional induction of MMP-10 by TGF- β mediated by activation of MEF2A and downregulation of class IIa HDACs" *Oncogene* 29: 909-919 (2010)

Zhang X, Kondo M, Chen J, Miyoshi H, Suzuki H, Ohashi T, Shida H, "Inhibitory effect of human TRIM5 α on HIV-1 production" *Microbes Infect* 12: 768-777 (2010)

Kitamura F, Kitamura N, Mori A, Tatsumi H, Nemoto S, Miyoshi H, Miyatake S, Hiroi T, Kaminuma O, "Selective down-regulation of Th2 cytokines by C-terminal binding protein 2 in human T cells" *Int Arch Allergy Immunol* 152: 18-21 (2010)

Inoue S, Noda S, Kashima K, Nakada K, Hayashi J, Miyoshi H, "Mitochondrial respiration defects modulate differentiation but not proliferation of hematopoietic stem and progenitor cells" *FEBS Lett* 584: 3402-3409 (2010)

Honda A, Hirose M, Hatori M, Matoba S, Miyoshi H, Inoue K, Ogura A, "Generation of induced pluripotent stem cells in rabbits: potential experimental models for human regenerative medicine" *J Biol Chem* 285: 31362-31369 (2010)

Fujioka T, Shimizu N, Yoshino K, Miyoshi H, Nakamura Y, "Establishment of induced pluripotent stem cells from human neonatal tissues" *Hum Cell* 23: 113-118 (2010)

Technology and Development Team for Mouse Phenotype Analysis: Japan Mouse Clinic

Journals in English or non-Japanese (Peer reviewed)

Wada Y, Furuse T, Yamada I, Masuya H, Kushida T, Shibukawa Y, Nakai Y, Kobayashi K, Kaneda H, Gondo Y, Noda T, Shiroishi T, Wakana S, "ENU mutagenesis screening for dominant behavioral mutations based on normal control data obtained in Home-cage activity Open-field, and passive avoidance tests" *Exp Anim* 59: 495-510 (2010)

Sato H, Suzuki T, Ikeda K, Masuya H, Sezutsu H, Kaneda H, Kobayashi K, Miura I, Kurihara Y, Yokokura S, Nishida K, Tamai M, Gondo Y, Noda T, Wakana S, "A monogenic dominant mutation in Rom1 generated by N-ethyl-N-nitrosourea mutagenesis causes retinal degeneration in mice" *Mol Vis* 16: 378-391 (2010)

Furuse T, Wada Y, Hattori K, Yamada I, Kushida T, Shibukawa Y, Masuya H, Kaneda H, Miura I, Seno N, Kanda T, Hirose R, Toki S, Nakanishi K, Kobayashi K, Sezutsu H, Gondo Y, Noda T, Yuasa S, Wakana S, "Phenotypic characterization of a new Grin1 mutant mouse generated by ENU mutagenesis" *Euro J Neurosci* 31: 1281-1291 (2010)

Tanaka N, Waki K, Kaneda H, Suzuki T, Yamada I, Furuse T, Kobayashi K, Motegi H, Toki H, Inoue M, Minowa O, Noda T, Takao K, Miyakawa T, Takahashi A, Koide T, Wakana S, Masuya H, "SDOP-DB: a comparative standardized-protocol database for mouse phenotypic analyses" *Bioinformatics* 26: 1133-1134 (2010)

Masuya H, Makita Y, Kobayashi N, Nishikata K, Yoshida Y, Mochizuki Y, Doi K, Takatsuki T, Waki K, Tanaka N, Ishii M, Matsushima A, Takahashi S, Hijikata A, Kozaki K, Furuichi T, Kawaji H, Wakana S, Nakamura Y, Yoshiki A, Murata T, Fukami K, Kobayashi N, Sujatha Mohan, Ohara O, Hayashizaki Y, Mizoguchi R, Obata Y, Toyoda T, "The RIKEN integrated database of mammals" *Nucleic Acids Res* 39: D861-D870 (2010)

Journals in Japanese (Peer reviewed)

Furuse T, Yamada I, Wakana S, "Current progress of international integration in mouse behavior phenotype analyses" *Japanese Journal of Animal Psychology* 60: 119-127 (2010)

International Conferences (Invited)

Wakana S, "Systematic pathological analysis and data capture in the Japan mouse clinic" Pathology of the laboratory mouse: An international workshop on challenges for high throughput phenotyping Bordeaux France, Sep.-Oct. 2010

Masuya H, Suzuki T, "Modified-SHIRPA: High-Throughput screen method to analyze mouse morphology and behavior phenotypes" 4th AFLAS Congress Meeting/5th AMMRA Annual Meeting/11th CSLAS Annual Meeting Taipei Taiwan, Nov. 2010

Wakana S, "Introduction of the Japan Mouse Clinic" 4th AFLAS Congress Meeting/5th AMMRA Annual Meeting/11th CSLAS Annual Meeting Taipei Taiwan, Nov. 2010

Wakana S, "Recent Activity of IMPC and AMPC initiative" 4th AFLAS Congress Meeting/5th AMMRA Annual Meeting/11th CSLAS Annual Meeting Taipei Taiwan, Nov. 2010

Wakana S, "The current progress of Japan Mouse Clinic" EUMODIC 4th annual meeting Barcelona Spain, Mar. 2011

Domestic Conferences (Invited)

Shigeharu W, "Trend in standardization of mouse phenotyping program and the Japan Mouse Clinic" The 168th Tsukuba Brain Science Seminar Tsukuba Japan, Jan. 2010

Shigeharu W, "Development and standardization of mouse phenotyping program" The Open seminar in National Institute of Genetics [New trends in Mouse Forward Genetics] Mishima Japan, Apr. 2010

Orimoto K, Shigeharu W, "The provision against an animal allergy in RIKEN Tsukuba Institute" The 44th Annual Meeting of Japanese Experimental Animal Technologists Asahikawa Japan, Sep. 2010

Tomohiro S, "Standardization of mouse phenotyping program and the Japan Mouse Clinic" The 19th Reproductive and Developmental Toxicology Seminar Tokyo Japan, Oct. 2010

Furuse T, Shigeharu W, "Development of animal model for ADHD disorders in mouse ENU mutagenesis program" The Third Symposium on Human Disease Models Tokyo Japan, Nov. 2010

Wakana S, "Standardization of mouse phenotyping platform and the Japan Mouse Clinic" The 5th Bio Forum 2010 in Kyoto Sangyo University Faculty of Life Sciences Kyoto Japan, Oct. 2010

Shigeharu W, "Standardization of mouse phenotyping platform and the Japan Mouse Clinic" Division of Neuroscience Up-to-date Seminar in Kanazawa University Graduate School of Medical Science Kanazawa Japan, Jan. 2011

Shigeharu W, "Trend in standardization of mouse phenotyping program and the Japan Mouse Clinic" The 10th Exp Anim Seminar in National Institute of Radiological Sciences Chiba Japan, Mar. 2011

Team for Advanced Development and Evaluation of Human Disease Models

Journals in English or non-Japanese (Peer reviewed)

Wada Y, Furuse T, Yamada I, Masuya H, Kushida T, Shibukawa Y, Nakai Y, Kobayashi K, Kaneda H, Gondo Y, Noda T, Shiroishi T, Wakana S, "ENU mutagenesis screening for dominant behavioral mutations based on normal control data obtained in Home-cage activity Open-field and passive avoidance tests" *Exp Anim* 59: 495-510 (2010)

Sato H, Suzuki T, Ikeda K, Masuya H, Sezutsu H, Kaneda H, Kobayashi K, Miura I, Kurihara Y, Yokokura S, Nishida K, Tamai M, Gondo Y, Noda T, Wakana S, "A monogenic dominant mutation in Rom1 generated by N-ethyl-N-nitrosourea mutagenesis causes retinal degeneration in mice" *Mol Vis* 16: 378-391 (2010)

Furuse T, Wada Y, Hattori K, Yamada I, Kushida T, Shibukawa Y, Masuya H, Kaneda H, Miura I, Seno N, Kanda T, Hirose R, Toki S, Nakanishi K, Kobayashi K, Sezutsu H, Gondo Y, Noda T, Yuasa S, Wakana S, "Phenotypic characterization of a new Grin1 mutant mouse generated by ENU mutagenesis" *Euro J Neurosci* 31: 1281-1291 (2010)

Tanaka N, Waki K, Kaneda H, Suzuki T, Yamada I, Furuse T, Kobayashi K, Motegi H, Toki H, Inoue M, Minowa O, Noda T, Takao K, Miyakawa T, Takahashi A, Koide T, Wakana S, Masuya H, "SDOP-DB: a comparative standardized-protocol database for mouse phenotypic analyses" *Bioinformatics* 26: 1133-1134 (2010)

Mutagenesis and Genomics Team

Journals in English or non-Japanese (Peer reviewed)

Sato H, Suzuki T, Ikeda K, Masuya H, Sezutsu H, Kaneda H, Kobayashi K, Miura I, Kurihara Y, Yokokura S, Nishida K, Tamai M, Gondo Y, Noda T, Wakana S, "A monogenic dominant mutation in Rom1 generated by N-ethyl-N-nitrosourea mutagenesis causes retinal degeneration in mice" *Mol Vis* 16: 378-391 (2010)

Furuse T, Wada Y, Hattori K, Yamada I, Kushida T, Shibukawa Y, Masuya H, Kaneda H, Miura I, Seno N, Kanda T, Hirose R, Toki S, Nakanishi K, Kobayashi K, Sezutsu H, Gondo Y, Noda T, Yuasa S, Wakana S, "Phenotypic characterization of a new Grin1 mutant mouse generated by ENU mutagenesis" *Euro J Neurosci* 31: 1281-1291 (2010)

Gondo Y, "Now and future of mouse mutagenesis for human disease models" *J Genet Genomics* 37: 559-572 (2010)

Gondo Y, Fukumura R, Murata T, Makino S, "ENU-based gene-driven mutagenesis in the mouse: a next-generation gene-targeting system" *Exp Anim* 59: 537-548 (2010)

Wada Y, Furuse T, Yamada I, Masuya H, Kushida T, Shibukawa Y, Nakai Y, Kobayashi K, Kaneda H, Gondo Y, Noda T, Shiroishi T, Wakana S, "ENU mutagenesis screening for dominant behavioral mutations based on normal control data obtained in Home-cage activity, Open-field, and passive avoidance tests" *Exp Anim* 59: 495-510 (2010)

Janes D, Chapus C, Gondo Y, Clayton D, Sinha S, Blatti C, Organ C, Fujita M, Balakrishnan C, Edwards S, "Reptiles and

mammals have differentially retained long conserved noncoding sequences from the amniote ancestor" *Genome Biol Evol* 3: 102-113 (2011)

Gondo Y, Murata T, Makino S, Fukumura R, Ishitsuka Y, "Mouse mutagenesis and disease models for neuropsychiatric disorders" *Current Topics in Behavior and Neurosciences* 7: 1-35 (2011)

International Conferences (Invited)

Murata T, Makino S, Fukumura R, Gondo Y, "New sterile model mouse from RIKEN ENU-based gene-driven mutagenesis" 24th International Mammalian Genome Conference (IMGC2010) Crete Greece, Oct. 2010 (Outstanding Poster Presentation Award at the 24th International Mammalian Genome Conference)

Gondo Y, "Toward the development of new epistatic mouse model resources with the next-generation sequencers" 4th AFLAS Congress Meeting/5th AMMRA Annual Meeting/11th CSLAS Annual Meeting Taipei Taiwan, Nov. 2010

Gondo Y, "Mutant mouse: bona fide biosimulator with various next-generation technologies for new information biology" The 9th Asia Pacific Bioinformatics Conference (APBC2011) Incheon Korea, Jan. 2011

Gondo Y, Fukumura R, Murata T, Makino S, "New reverse genetics with ENU mutant mouse library as a tool to identify epistatic interactions" International Conference Gene Targeting Vienna Austria, Feb. 2011 (Selected for platform presentation)

Gondo Y, Fukumura R, "Target sequencing of whole mouse exome: new bioresources for modeling human genome analyses" International Conference on the Status of Plant and Animal Genome Research (PAG-XIX) San Diego USA, Jan. 2011

Domestic Conferences (Invited)

Gondo Y, "Analysis of whole mouse exome by ultra-throughput sequencer: toward the comprehensive discovery of functional mutations and SNPs" 2010 Agilent Genomics Forum Tokyo Japan, Jun. 2010

Gondo Y, Fukumura R, Murata T, Makino S, "Model mouse resource to elucidate the gene-to-gene interaction based on a next-generation gene-targeting system" The 82nd Annual Meeting of the Genetics Society of Japan Sapporo Japan, Sep. 2010 (Best Paper Award)

Murata T, Makino S, Fukumura R, Gondo Y, "Novel infertility model mice established by gene-driven mutagenesis" The 24th Molossinus Colloquium, Minami-Aso Kumamoto Japan, Sep. 2010 (Selected for platform presentation)

Katsuragi Y, Anraku J, Nishikawa A, Nakatomi M, Ida H, Ohshima H, Gondo Y, Kominami R, "Bcl11b/Rit1 controls the differentiation of ameloblast cells in eyeteeth" The 24th Molossinus Colloquium Minami-Aso Kumamoto Japan, Sep. 2010 (Selected for platform presentation)

Makino S, Murata T, Fukumura R, Ishitsuka Y, Kotaki H, Hui Chi-Chung, Gondo Y, "Analysis of intracellular Hedgehog signal transduction using a mouse hypomorphic mutation in Sufu" The 33rd Annual Meeting of Molecular Biology Society of Japan/83rd Annual Meeting of the Japanese Biochemical Society (BMB2010) Kobe Japan, Dec. 2010 (Selected for Workshop Presentation)

Gondo Y, "Development of model mice encompassing gene-to-gene interactions" The 558th Kitazato Medical Society Science Seminar Sagami-hara Japan, Mar. 2011

Books in English or non-Japanese

Gondo Y, "Do Long and Highly Conserved Noncoding Sequences in Vertebrates Have Biological Functions?" *Evolutionary Biology: Concepts Molecular and Morphological Evolution* 0 0 Springer Germany Heidelberg 187-206 (2010)

Books in Japanese

"ENUマウスミュータジェネシス" 福村 龍太郎, 権藤 洋一, 生物機能モデルと新しいリソース・リサーチツール 日本 0 0 エル・アイ・シー 日本 東京 445-453 (2011)

Fukumura R, Gondo Y, "ENU Mouse Mutagenesis" *Animal Models* 0 0 LIC Tokyo Japan 445-453 (2011)

Technolpgy and Development Unit for Knowledge Base of Mouse Phenotype

Journals in English or non-Japanese (Peer reviewed)

Tanaka N, Waki K, Kaneda H, Suzuki T, Yamada I, Furuse T, Kobayashi K, Motegi H, Toki H, Inoue M, Minowa O, Noda T,

Takao K, Miyakawa, Takahashi A, Koide T, Wakana S, Masuya H, "SDOP-DB: a comparative standardized-protocol database for mouse phenotypic analyses" *Bioinformatics* 26: 1133-1134 (2010)

Masuya H, Makita Y, Kobayashi N, Nishikata Y, Yoshida Y, Mochizuki K, Doi T, Takatsuki K, Waki N, Tanaka M, Ishii A, Matsushima S, Takahashi A, Hijikata K, Kozaki T, Furuichi H, Kawaji H, Wakana S, Nakamura Y, Yoshiki A, Murata T, Fukami K, Kobayashi K, Sujatha Mohan, Ohara O, Hayashizaki Y, Mizoguchi R, Obata Y, Toyoda T, "The RIKEN integrated database of mammals" *Nucleic Acids Res* 39: D861-D870 (2010)

Wada Y, Furuse T, Yamada I, Masuya Hi, Kushida T, Shibukawa Y, Nakai Y, Kobayashi K, Kaneda H, Gondo Y, Noda T, Shiroishi T, Wakana S, "ENU mutagenesis screening for dominant behavioral mutations based on normal control data obtained in Home-cage activity, Open-field, and passive avoidance tests" *Exp Anim* 59: 495-510 (2010)

Sato H, Suzuki T, Ikeda K, Masuya H, Sezutsu H, Kaneda H, Kobayashi K, Miura I, Kurihara Y, Yokokura S, Nishida K, Tamai M, Gondo Y, Noda T, Wakana S, "A monogenic dominant mutation in Rom1 generated by N-ethyl-N-nitrosourea mutagenesis causes retinal degeneration in mice" *Mol Vis* 16: 378-391 (2010)

Furuse T, Wada Y, Hattori K, Yamada I, Kushida T, Shibukawa Y, Masuya H, Kaneda H, Miura I, Seno N, Kanda T, Hirose R, Toki S, Nakanishi K, Kobayashi K, Sezutsu H, Gondo Y, Noda T, Yuasa S, Wakana S, "Phenotypic characterization of a new Grin1 mutant mouse generated by ENU mutagenesis" *Euro J Neurosci* 31: 1281-1291 (2010)

International Conferences (Invited)

Masuya H, Wakana S, "Japan Mouse Clinic (JMC): The comprehensive mouse phenotyping platform" 1st KGEMC symposium Daejeon Korea, Sep. 2010

Masuya H, "The semantic web based integration of mammalian bio-resources" 9th Asia Pacific Bioinformatics Conference (APBC2011) Incheon Korea, Jan. 2011

Masuya H, "Testing of data coordination between Japan Mouse Clinic's SOP and EMPReSSslim" EUMODIC 4th annual meeting Barcelona Spain, Mar. 2011

Domestic Conferences (Invited)

Masuya H, "How to handling various data about mouse phenotype: networking and international standardization of information" Mishima Japan, Apr. 2010

Masuya H, Tanaka N, Waki K, Kushida T, Hurusaki K, Mizoguchi R, "A inquiry of the methodology to describe biological measurements with top-level ontologies" Nagasaki Japan, Jun. 2010

Masuya H, "Standardization and integration of phenotype at the information-level" Sapporo Japan, Sep. 2010

Tanaka N, "Practical use of the RIKEN integrated database for mammals" Tsukuba Japan, Dec. 2010

Masuya H, "The integrated approach to the development of model animal and determination of the cause of osteoarthritis" Tokyo Japan, Dec. 2010

Ishii Research Collaborative Group**Journals in English or non-Japanese (Peer reviewed)**

Jones DC, Schweitzer MN, Wein M, Sigrist K, Takagi T, Ishii S, Climcher LH, "Uncoupling of growth plate maturation and bone formation in mice lacking both Schnurri-2 and Schnurri-3" Proc Natl Acad Sci USA 107: 8254-8258 (2010)

Egoh A, Kanesashi S, Ishii C, Nomura T, Ishii S, "Ribosomal protein L4 positively regulates activity of a c-myc proto-oncogene product" Genes Cells 15: 829-841 (2010)

Seong KH, Akimaru H, Dai P, Nomura T, Okada M, Ishii S, "Inhibition of the nuclear import of cubitus interruptus by roadkill in the presence of strong hedgehog signal" PLoS One 5: e15365 (2010)

Nagao M, Saita Y, Hanyu R, Hemmi H, Notomi T, Hayata T, Nakamoto T, Nakashima K, Kaneko K, Kurosawa H, Ishii S, Ezura Y, Noda M, "Schnurri-2 deficiency counteracts against bone loss induced by ovariectomy" J Cell Physiol 226: 573-578 (2011)

Hou X, Omi M, Harada H, Ishii S, Takahashi Y, Nakamura H, "Conditional knockdown of target gene expression by

tetracycline regulated transcription of double strand RNA" Dev Growth Differ 53: 69-75 (2011)

International Conferences (Invited)

Ishii S, "Epigenetic regulation by ATF-2 family of transcription factors in response to various stresses" Symposium on "Epigenetic inheritance and genome reprogramming", The 62nd Annual Meeting of the Japan Society for Cell Biology Osaka Japan, May 2010

Shinozaki Research Collaborative Group**Journals in English or non-Japanese (Peer reviewed)**

Sato A, Sato Y, Fukao Y, Fujiwara M, Umezawa T, Shinozaki K, Hibi T, Taniguchi M, Miyake H, Goto D, Uozumi N, "Threonine at position 306 of the KAT1 potassium channel is essential for channel activity and is a target site for ABA-activated SnRK2/OST1/SnRK2.6 protein kinase" Biochem J 424: 439-448 (2009)

Mizoguchi M, Umezawa T, Nakashima K, Kidokoro S, Takasaki H, Fujita Y, Shinozaki K, Shinozaki K, "Two closely related subclass II SnRK2 protein kinases cooperatively regulate drought-inducible gene expression" Plant Cell Physiol 51: 842-847 (2010)

Yoshida T, Fujita Y, Sayama H, Kidokoro S, Maruyama K, Mizoi J, Shinozaki K, Shinozaki K, "AREB1, AREB2, and ABF3 are master transcription factors that cooperatively regulate ABRE-dependent ABA signaling involved in drought stress tolerance and require ABA for full activation" Plant J 61: 672-685 (2010)

Hirayama T, Shinozaki K, "Research on plant abiotic stress responses in the post-genome era: past present and future" Plant J 61: 1041-1052 (2010)

Urano K, Kurihara Y, Seki M, Shinozaki K, "Omics' analyses of regulatory networks in plant abiotic stress responses" Curr Opin Plant Biol 13: 132-138 (2010)

Osakabe Y, Mizuno S, Tanaka H, Maruyama K, Osakabe K, Todaka D, Fujita Y, Kobayashi M, Shinozaki K, Shinozaki K, "Overproduction of the membrane-bound receptor-like protein kinase 1 RPK1 enhances abiotic stress tolerance in *Arabidopsis*"

J Biol Chem 285: 9190-9201 (2010)

Matsukura S, Mizoi J, Yoshida T, Todaka D, Ito Y, Maruyama K, Shinozaki K, Shinozaki K, "Comprehensive analysis of rice *DREB2*-type genes that encode transcription factors involved in the expression of abiotic stress-responsive genes" Mol Genet Genomics 283: 185-196 (2010)

Takasaki H, Maruyama K, Kidokoro S, Ito Y, Fujita Y, Shinozaki K, Shinozaki K, Nakashima K, "The abiotic stress-responsive NAC-type transcription factor OsNAC5 regulates stress-inducible genes and stress tolerance in rice" Mol Genet Genomics 284: 173-183 (2010)

Shinozaki K, "The ICAR201 for development of Arabidopsis research beyond 2010" J Plant Res 123: 625-266 (2010)

Takasaki H, Maruyama K, Kidokoro Sa, Ito Y, Fujita Y, Shinozaki K, Shinozaki K, Nakashima K, "The abiotic stress-responsive NAC-type transcription factor OsNAC5 regulates stress-inducible genes and stress tolerance in rice" Mol Genet Genomics 284: 173-183 (2010)

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