

研究発表

Publications

Experimental Animal Division

Journals in English or non-Japanese (Peer reviewed)

Araki K, Takeda N, Yoshiki A, Obata Y, Nakagata N, Shiroishi T, Moriwaki K, Yamamura K, "Establishment of germline-competent embryonic stem cell lines from the MSM/Ms strain" *Mammalian Genome* Vol.20 pp14-20 (2009)

Miki H, Hirose M, Ogonuki N, Inoue K, Kezuka F, Honda A, Mekada K, Hanaki K, Iwafune H, Yoshiki A, Ishino F, Ogura A, "Efficient production of androgenetic embryos by round spermatid injection" *Genesis* Vol.47 pp155-160 (2009)

Yoshiki A, Ike F, Mekada K, Kitaura Y, Nakata H, Hiraiwa N, Mochida K, Ijuin M, Kadota M, Murakami A, Ogura A, Abe K, Moriwaki K, Obata Y, "The mouse resources at the RIKEN BioResource Center" *Experimental Animals* Vol.58 pp85-96 (2009)

Moriwaki K, Miyashita N, Mita A, Gotoh H, Tsuchiya K, Kato H, Mekada K, Noro C, Oota S, Yoshiki A, Obata Y, Yonekawa H, Shiroishi T, "Unique Inbred Strain MSM/Ms Established from the Japanese Wild Mouse" *Experimental Animals* Vol.58 pp123-134 (2009)

Mekada K, Abe K, Murakami A, Nakamura S, Nakata H, Moriwaki K, Obata Y, Yoshiki A, "Genetic differences among C57BL/6 substrains" *Experimental Animals* Vol.58 pp141-149 (2009)

Ogonuki N, Inoue K, Hirose M, Miura I, Mochida K, Sato T, Mise N, Mekada K, Yoshiki A, Abe K, Kurihara H, Wakana S, Ogura A, "A high-speed congenic strategy using firstwave male germ cells" *PLoS One* Vol.4 ppe4943-1-e4943-7 (2009)

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Inoue K, Ogonuki N, Mekada K, Yoshiki A, Sado T, Ogura A, "Sex-reversed somatic cell cloning in the mouse" *Journal of Reproduction and Development* Vol.55 pp 566-569 (2009)

Numata K, Osada Y, Okada Y, Saito R, Hiraiwa N, Nakaoka H, Yamamoto N, Watanabe K, Okubo K, Kohama C, Kanai A, Abe K, Kiyosawa H, "Identification of novel endogenous antisense transcripts by DNA microarray analysis targeting complementary strand of annotated genes" *BMC Genomics* Vol.10 pp1-12 (2009)

International Conferences (Invited)

Ike F, "Introduction of sentinel mice monitoring system and the advantages and disadvantages comparison" NLAC Seminar Tainan Taiwan 1 2009

Mekada K, "Mouse colony management in RIKEN BRC and genetic diversity of mouse inbred strains" NLAC Seminar Tainan Taiwan 1 2009

Yoshiki A, Ike F, Mekada K, Nakata H, Hiraiwa N, Mochida K, Ogura A, Nakamura Y, Fukami-Kobayashi K, Abe K, Moriwaki K, and Obata Y, "Current status of Japan mouse resources: The 2009 progress report of mouse resources at the RIKEN BRC" 4th AMMRA Annual Meeting Kumamoto Japan 12 2009

Domestic Conferences (Invited)

Yoshiki A, "Genetic control of inbred strains: Genetic control of breeding colony of mice and rats" The 43rd Annual Meeting of Japanese Association for Experimental Animal Technologists Niigata Japan 10 2009

Yoshiki A, "Establishment of genetically engineered mouse resources based on seeds and needs of research community" Mutant resources provided by NBRP, NBRP symposium, The 32nd Annual Meeting of the Molecular Biology Society of Japan Yokohama Japan 12 2009

Experimental Plant Division

Journals in English or non-Japanese (Peer reviewed)

Urano K, Maruyama K, Ogata Y, Morishita Y, Takeda M, Sakurai N, Suzuki H, Saito K, Shibata D, Kobayashi M, Yamaguchi-Shinozaki K, Shinozaki K, "Characterization of the ABA-regulated global responses to dehydration in Arabidopsis by metabolomics" *The Plant Journal* Vol.57 pp1065-1078 (2009)

Sawaki Y, Iuchi S, Kobayashi Y, Kobayashi Y, Ikka T, Sakurai N, Fujita M, Shinozaki K, Shibata D, Kobayashi M, Koyama H, "STOP1 regulates multiple genes that protect Arabidopsis from proton and aluminum toxicities" *Plant Physiology* Vol.150 pp281-294 (2009)

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Ichikawa H, Toki S, "Inefficient double-strand DNA break repair is associated with increased fasciation in *Arabidopsis* BRCA2 mutants" *Journal of Experimental Botany* Vol.60 pp2751-2761 (2009)

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Leon-Reyes A, Spoel S, De Lange E, Abe H, Kobayashi M, Tsuda S, Millenaar F, Welschen R, Ritsema C, "Ethylene modulates the role of nonexpressor of pathogenesis-related genes1 in cross talk between salicylate and jasmonate signaling" *Plant Physiology* Vol.149 pp1797-1809 (2009)

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Fujita Y, Nakashima K, Yoshida T, Katagiri T, Kidokoro S, Kanamori N, Umezawa T, Fujita M, Maruyama K, Ishiyama K, Kobayashi M, Nakasone S, Yamada K, Ito T, Shinozaki K, Yamaguchi-Shinozaki K, "Three SnRK2 protein kinases are the main positive regulators of abscisic acid signaling in response to water stress in *Arabidopsis*" *Plant and Cell Physiology* Vol.50 pp2123-2132 (2009)

Yamazaki Y, Akashi R, Banno Y, Endo T, Ezura H, Fukami K, Inaba K, Isa T, Kamei K, Kasai F, Kobayashi M, Kurata N, Kusaba M, Mizusawa T, Mitani S, Nakamura T, Nakamura Y, Nakatsuji N, Naruse K, Niki H, Nitasaka E, Obata Y, Okamoto H, Ohkuma 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* Vol.38 ppD26-D32 (2010)

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" *Proceedings of the National Academy of Sciences of the United States of America* Vol.107 pp5792-5797 (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 selfincompatibility in *Brassica rapa* L." *Genome* Vol.53 pp257-265 (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" *Journal of Biological Chemistry* Vol.285 pp9190-9201 (2010)

Katori T, Ikeda A, Iuchi S, Kobayashi M, Shinozaki K, Maehashi K, Sakata Y, Tanaka S, Taji T, "Dissecting the genetic control of natural variation in salt tolerance of *Arabidopsis thaliana* accessions" *Journal of Experimental Botany* Vol.61 pp1125-1138 (2010)

International Conferences (Invited)

Kobayashi M, "Plant Resource Project in RIKEN BRC" 1st ANRRC & Asian Chapter Meeting of ISBER Seoul Korea 9 2009

Domestic Conferences (Invited)

Kobayashi M, "Arabidopsis resources prepared and provided through the 2010 Project, and research trends toward the succeeding projects." 2nd Symposium on Plant Stress Research Kurashiki Japan 3 2010

Cell Engineering Division

Journals in English or non-Japanese (Peer reviewed)

Ishigaki T, Sudo K, Hiroyama T, Miharada K, Ninomiya H, Chiba S, Nagasawa T, Nakamura Y, "Human hematopoietic stem cells can survive in vitro for several months" *Advances in Hematology* Vol.2009 pp1-7 (2009)

Suzuki H, Forrest A, Daub C, Lassmann T, Hasegawa Y, De Hoon M, Katayama S, Carninci P, Tomaru Y, Katayama M, Kubosaki A, Ando Y, Arner E, Bertin N, Bulger E, Furuno M, Okada M, Hashimoto T, Ishihara R, Kawaji H, Kimura Y, Kondo S, Lennartsson A, Lizio M, Maeda N, Nakano M, Okazaki Y, Okuda H, Plessy C, Severin J, Suzuki M, Suzuki T, Waki K, Waterhouse A, Yamaguchi K, Yasuda J, The FANTOM C, Arakawa T, Fukuda S, Imamura K, Kai C, Kaiho A, Kawashima T, Suzuki C, Kitazume Y, Kojima M, Miura H, Murakami K, Murata M, Fukuda N, Sueki H, Noma S, Ogawa C, Sano T, Simon C, Tagami M, Takahashi Y, Kawai J, Hayashizaki Y, "The transcriptional network that controls growth arrest and differentiation in a human myeloid leukemia cell line" *Nature Genetics* Vol.41 pp553-562 (2009)

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Tamagawa T, Ishiwata I, Sato K, Nakamura Y, "Induced in

vitro differentiation of pancreatic-like cells from human amnion-derived fibroblast-like cells" *Human Cell* Vol.22 pp55-63 (2009)

Takahashi Y, Forrest A, Maeno E, Hashimoto T, Daub C, Yasuda J, "MiR-107 and MiR-185 Can Induce Cell Cycle Arrest in Human Non Small Cell Lung Cancer Cell Lines" *PLoS One* Vol.4 ppe6677-1-e6677-9 (2009)

Nakamura Y, "Bio-Resource of human and animalderived cell materials" *Experimental Animals* Vol.59 pp1-7 (2010)

Yamazaki Y, Akashi R, Banno Y, Endo T, Ezura H, Fukami K, Inaba K, Isa T, Kamei K, Kasai F, Kobayashi M, Kurata N, Kusaba M, Mizusawa T, Mitani S, Nakamura T, Nakamura Y, Nakatsuji N, Naruse K, Niki H, Nitasaka E, Obata Y, Okamoto H, Ohkuma 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* Vol.38 ppD26-D32 (2010)

International Conferences (Invited)

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 6 2009

Nakamura Y, "Cell Bank in RIKEN BRC" 1st ANRRC & Asian Chapter Meeting of ISBER Seoul Korea 9 2009

Nakamura Y, "Human Resources in RIKEN BRC" 1st ANRRC & Asian Chapter Meeting of ISBER Seoul Korea 9 2009

Nakamura Y, "Stem cell bank and in vitro production of red blood cells from ES and iPS cells" the 4th anniversary of Nichi-In center for regenerative medicine Chennai India 10 2009

Nakamura Y, "In vitro production of transfusible red blood cells" International Society for Blood Transfusion (ISBT) 20th Regional Congress, Asia Nagoya Japan 11 2009

Gene Engineering Division

Journals in English or non-Japanese (Peer reviewed)

Fukuda K, Abei M, Ugai H, Kawashima R, Seo E, Wakayama M, Murata T, Endo S, Hamada H, Yokoyama K, "E1A, E1B double-restricted replicative adenovirus at low dose greatly augments tumor-specific suicide gene therapy for gallbladder cancer" *Cancer Gene Therapy* Vol.16 pp126-136 (2009)

Sato I, Obata Y, Kasahara K, Nakayama Y, Fukumoto Y, Yamasaki T, Yokoyama K, Saito T, Yamaguchi N, "Differential trafficking of Src, Lyn, Yes, and Fyn is specified by the state of palmitoylation in the SH4 domain" *Journal of Cell Science*

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Yamasaki T, Takahashi A, Pan J, Yamaguchi N, Yokoyama K, "Phosphorylation of activation transcription factor-2 at serine 121 by protein kinase C controls c-Jun-mediated activation of transcription" *The Journal of Biological Chemistry* Vol.284 pp8567-8581 (2009)

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Yokoyama K, Murata T, Pan J, 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" *Experimental Animals* Vol.59 pp115-124 (2010)

Nakade K, Waslyk B, Yokoyama K, "Epigenetic regulation of p16Ink4a and Arf by JDP2 in cellular senescence" *BioMolecular Concepts* Vol.1 pp49-58 (2010)

Books in English or non-Japanese (Peer reviewed)

0111835 Book, Proc. (in English or non-Japanese) Hirano T, Yokoyama K, "Role of extrachromosomal elements in HL-60 human leukemia cells" *The Human Genome: Features, Variations and Genetic Disorders* pp91-100 (2009)

Microbe Division

Journals in English or non-Japanese (Peer reviewed)

Sakamoto M, Kumada H, Hamada N, Takahashi Y, Okamoto M, Bakir M, Benno Y, "Prevotella falsenii sp. nov., a Prevotella intermedia-like organism isolated from monkey dental plaque" *International Journal of Systematic and Evolutionary Microbiology* Vol.59 pp319-322 (2009)

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Noda S, Mantini C, Bordereau C, Kitade O, Dolan M, Viscogliosi E, Ohkuma M, "Molecular phylogeny of parabasalids with emphasis on the order Cristamonadida and its complex morphological evolution" *Molecular Phylogenetics and Evolution* Vol.52 pp217-224 (2009)

Noda S, Hongoh Y, Sato T, Ohkuma M, "Complex coevolutionary history of symbiotic Bacteroidales bacteria of various protists in the gut of termites" *BMC Evolutionary Biology* Vol.9 pp158 (2009)

Promnuan Y, Kudo T, Chantawannakul P, "Actinomycetes isolated from beehives in Thailand" *World Journal Microbiology and Biotechnology* Vol.25 pp1685-1689 (2009)

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Takashima M, Sugita T, Toriumi Y, Nakase T, "Cryptococcus tepidarius sp. nov., a thermotolerant yeast species isolated from a stream from a hot-spring area in Japan" *International Journal of Systematic and Evolutionary Microbiology* Vol.59 pp181-185 (2009)

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Sugiyama Y, Ito Y, Suzuki M, Hirota A, "Indole derivatives from a marine sponge-derived yeast as DPPH radical scavengers" *Journal of Natural Products* Vol.72 pp2069-2071 (2009)

Mantini C, Dalia-Cornette J, Noda S, Van Der Heijden H, Capron M, Dei-Cas E, Landman W, Ohkuma M, Viscogliosi E, "Molecular identification and phylogenetic relationships of trichomonad isolates of galliform birds inferred from nuclear small subunit rRNA gene sequences" *Parasitology Research* Vol.106 pp163-170 (2009)

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Kurtzman C, Suzuki M, "Phylogenetic analysis of ascomycete yeasts that form coenzyme Q-9 and the proposal of the new genera Babjeviella, Meyerozyma, Millerozyma, Priceomyces, and Scheffersomyces" *Mycoscience* Vol.51 pp2-14 (2010)

Koyanagi T, Sakamoto M, Takeuchi Y, Ohkuma M, Izumi Y, "Analysis of Microbiota Associated with Peri-Implantitis using 16S rRNA Gene Clone Library" *Journal of Oral Microbiology* Vol.2 pp51041-51047 (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" *International Journal of Systematic and Evolutionary Microbiology* Vol.60 pp776-779 (2010)

Chamroensaksri N, Tanasupawat S, Akaracharaya A, Visessanguan W, Kudo T, Itoh T, "Gracilibacillus Thailandensis sp. nov., from Fermented Fish(Pla-ra)" *International Journal of Systematic and Evolutionary Microbiology* Vol.60 pp944-948 (2010)

Burns D, Janssen P, Itoh T, Minegishi H, Usami R, Kamekura M, Dyall-Smith M, "Natronomonas Moolapensis sp.nov., Non-Alkaliphilic Isolates Recovered from a Solar Saltern Crystallizer Pond, and Emended Description of the Genus Natronomonas" *International Journal of Systematic and Evolutionary Microbiology* Vol.60 pp1173-1176 (2010)

Burns D, Janssen P, Itoh T, Kamekura M, Echigo A, Dyall-Smith M, "Halonotius Pteroides Gen.nov.sp.nov.an Extremely Halophilic Archaeon Recovered from a Saltern Crystallizer"

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Obata T, Goto Y, Kunisawa J, Sato S, Sakamoto M, Setoyama H, Matsuki T, Nonaka K, Shibata N, Gohda M, Kagiyama 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" *Proceedings of the National Academy of Sciences of the United States of America* Vol.107 pp7419-7424 (2010)

Vishniac H, Takashima M, "Rhodotorula arctica sp. nov., a basidiomycetous yeast from Arctic soil" *International Journal of Systematic and Evolutionary Microbiology* Vol.60 pp1215-1218 (2010)

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" *The Journal of General and Applied Microbiology* Vol.56 pp169-173 (2010)

International Conferences (Invited)

Ohkuma M, "Symbioses of flagellates and bacteria for efficient digestion in termite gut" Canadian Institute for Advanced Research Integrated Microbial Biodiversity Program 2009 Annual General Meeting Asilomar USA 6 2009

Ohkuma M, "Symbioses in the gut microbial community of termites for efficient cellulose digestion" SIM Annual Meeting and Exhibition Toronto Canada 7 2009

Takashima M, Ohkuma M, "Japan Collection of Microorganisms: Activity of RIKEN BRC-JCM" 1st ANRRC & Asian Chapter Meeting of ISBER Seoul Korea 9 2009

Takashima M, Ohkuma M, "Microbial Diversity and the Role of RIKEN BRC-JCM" 1st ANRRC & Asian Chapter Meeting of ISBER Seoul Korea 9 2009

Itoh T, "How culture collections support microbial research in the 21st century" Workshop on Characterization of Microbial Communities Associated with Polluted Environments using Polyphasic Approach Chandigarh India 2 2010

Itoh T, "A perspective of diversity and speciation in thermophilic archaea" Workshop on Characterization of Microbial Communities Associated with Polluted Environments using Polyphasic Approach Chandigarh India 2 2010

Domestic Conferences (Invited)

Ohkuma M, "Genome analyses of multiplex symbiotic microbial community in the gut of termites" The Society for Biotechnology, Japan / Annual Meeting 2009 Nagoya Japan 9 2009

Ohkuma M, "Genome analyses of microbial symbionts of termites and efficient utilization of cellulose" The 25th Japanese Society of Microbial Ecology Higashi-Hiroshima Japan 11 2009

Ohkuma M, "Approaches to yet-uncultivated microorganisms in the symbiotic community of the termite gut" The 29th annual meeting of Japan Society for Microbial Systematics Kisarazu Japan 11 2009

Takashima M, "Nomenclature of fungi with the emphasis on medically mycology" The 30th regional symposium for medical mycology Tokyo Japan 11 2009

Kosako Y, "Achievement of Prof. Hideko Yabuuchi and present status of taxonomy of the genus Pseudomonas" The 44th meeting of Society of Pseudomonas Infectious Disease Tokyo Japan 2 2010

Bioresource Information Division

Journals in English or non-Japanese (Peer reviewed)

Moriwaki K, Miyashita N, Mita A, Gotoh H, Tsuchiya K, Kato H, Mekada K, Noro C, Oota S, Yoshiki A, Obata Y, Yonekawa H, Shiroishi T, "Unique Inbred Strain MSM/Ms Established from the Japanese Wild Mouse" *Experimental Animals* Vol.58 pp123-134 (2009)

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Technology and Development Team for Mammalian Cellular Dynamics

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Subteam for BioSignal Integration

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Team for Advanced Development and Evaluation of Human Disease Models

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Technology and Development Unit for Knowledge Base of Mouse Phenotype

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Ishii Research Collaborative Group

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適切な運営に向けた取り組み

Initiatives for the Better Management of the RIKEN BioResource Center

