

Mizutani E, Oikawa M, Kassai H, Inoue K, Shiura H, Hirasawa R, Kamimura S, Matoba S, Ogonuki N, Nagatomo H, Abe K, Wakayama T, Aiba A, Ogura A "Generation of cloned mice from adult neurons by direct nuclear transfer" Biol Reprod (in press)

Kurotaki Y, Hatanaka Y, Kamimura S, Oikawa M, Inoue H, Ogonuki N, Inoue K, Ogura A "Impaired active DNA demethylation in zygotes generated by round spermatid injection" Hum Reprod (in press)

Ohtsuka M, Miura H, Mochida K, Hirose M, Hasegawa A, Ogura A, Mizutani R, Kimura M, Isotani A, Ikawa M, Sato M, Gurumurthy CB "One-step generation of multiple transgenic mouse lines using an improved Pronuclear Injection-based Targeted Transgenesis (i-PITT)" BMC Genomics (in press)

Itou D, Shiromoto Y, Shin-Ya Y, Ishii C, Nishimura T, Ogonuki N, Ogura A, Hasuwa H, Fujihara Y, Kuramochi-Miyagawa S, Nakano T "Induction of DNA methylation by artificial piRNA production in male germ cells" Curr Biol (in press)

Inoue K, Oikawa M, Kamimura S, Ogonuki N, Nakamura T, Nakano T, Abe K, Ogura A "Trichostatin A specifically improves the aberrant expression of transcription factor genes in embryos produced by somatic cell nuclear transfer" Sci Rep (in press)

International Conferences (Invited)

Ogura A, "Recent technical advancements of somatic cell nuclear transfer in mice" The 6th congress of The Asian Federation of Laboratory Animal Science Kuala Lumpur Malaysia, November 2014

Mochida K, "Transportation of cryopreserved embryos and spermatozoa" The 6th congress of The Asian Federation of Laboratory Animal Science Kuala Lumpur Malaysia, November 2014

Ogura A, "Epigenetic abnormalities associated with somatic cell nuclear transfer in mice" at Symposium "Programming/Reprogramming Stem Cell Fate", The 37th Annual Meeting of the Molecular Biology Society of Japan Yokoyama, November 2014

Honda A, "The order of differentiation capacity in rabbit pluripotent stem cell is maintained even after naïve-like conversion" The 2014 3rd Korea-China-Japan Symposium on Animal Reproduction (KCJ Joint Symposium), at Jeju National University, Jeju Island Korea, July 2014

International Conferences (Participants): 1

Domestic Conferences (Invited)

Ogura A, "Recent developmental engineering in laboratory animals - Technical development and research in BioResource Center" Chromosome Engineering Research Center Seminar Yonago, June 2014

Ogura A, "Developmental epigenetics analyzed by nuclear transfer techniques" the 2nd Symposium of MEXT Grant-in-Aid for Scientific Research on Innovative Areas "Epigenome dynamics and regulation in germ cells" Fukuoka, October 2014

Honda A, Hirose M, Sankai T, Yasmin L, Yuzawa K, Honsho K, Izu H, Ikawa M, Ogura A, "Disruption of rabbit tyrosinase gene using CRISPR/Cas9" The 37th Annual Meeting of the Molecular Biology Society of Japan Kanagawa, Nov 2014

Ogonuki N, "The reproductive capacity of spermatogenic cells retrieved from simply frozen reproductive organs or whole bodies without cryoprotection" the 32th Annual Meeting of Japan Society of Fertilization and Implantation Tokyo, July 2014

Domestic Conferences (Participants): 12

Technology and Development Team for Mammalian Cellular Dynamics

Journals in English or non-Japanese (Peer reviewed)

Yukawa M, Akiyama T, Franke V, Mise N, Isagawa T, Suzuki Y, Suzuki MG, Vlahovicek K, Abe K, Aburatani H, Aoki F "Genome-wide analysis of the chromatin composition of histone H2A and H3 variants in mouse embryonic stem cells" PLoS One 9 e92689 (2014)

Kitamura T, Pignatelli M, Suh J, Kohara K, Yoshiki A, Abe K, Tonegawa S, "Regulation of temporal association memory by a distinct cortico-hippocampal circuit" Science 343 896-901 (2014)

Sato A, Abe K, Yuzuriha M, Fujii S, Takahashi N, Teramoto S, Aoyama H, "A novel mutation in the thyroglobulin gene that causes goiter and dwarfism in Wistar Hannover GALAS rats" Mutation Research 762 17-23 (2014)

Shiura H, Okamoto A, Sasaki H and Abe K "A novel technique

for simultaneous visualization of specific DNA methylation and protein/RNA expression” PLoS One. 9 e95750 (2014)

Kimura T, Kaga Y, Sekita Y, Fujikawa K, Nakatani T, Odamoto M, Funaki S, Ikawa M, Abe K and Nakano T “Pluripotent stem cells derived from mouse primordial germ cells by small molecule compounds” Stem Cells 33 45-55 (2015)

Oikawa M, Inoue K, Shiura H, Matoba S, Abe K, Ishino F, Ogura A, “Understanding the X chromosome inactivation cycle in mice: A comprehensive view provided by nuclear transfer” Epigenetics in press (2014)

Kono H, Tamura M, Osada N, Suzuki H, Abe K, Moriwaki K, Ohta K, Shiroishi T, “Prdm9 polymorphism unveils mouse evolutionary tracks” DNA Research in press (2014)

Sugimoto M, Kondo M, Koga Y, Shiura H, Ikeda R, Hirose M, Ogura A, Murakami A, Yoshiki A, Chuva de Sousa Lopes S, Abe K. “A simple and robust method for establishing homogeneous mouse epiblast stem cell lines by Wnt inhibition” Stem Cell Reports in press (2015)

Inoue K, Oikawa M, Kamimura S, Ogonuki N, Nakamura T, Nakano T, Abe K, Ogura A. “Trichostatin A specifically improves the aberrant expression of transcription factor genes in embryos produced by somatic cell nuclear transfer” Scientific Reports in press (2015)

Domestic Conferences (Invited)

阿部訓也 哺乳類発生過程におけるエピゲノム動態解析
第28回環境ホルモン学会 東京 6月19日 2014

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

Journals in English or non-Japanese (Peer reviewed)

Okumura K, Saito M, Isogai E, Miura I, Wakana S, Kominami R, Wakabayashi Y “Congenic mapping and allele-specific alteration analysis of *Stmm1* locus conferring resistance to early-stage chemically induced skin papillomas” PLoS ONE Vol.9 e97201 (2014)

Saito M, Okumura K, Miura I, Wakana S, Kominami R, Wakabayashi Y “Identification of *Stmm3* locus conferring resistance to late-stage chemically induced skin papillomas on mouse chromosome 4 by congenic mapping and allele-specific alteration analysis” Exp Anim Vol.63 339-348 (2014)

Tamura M, Amano T, Shiroishi T “The Hand2 gene dosage effect in developmental defects and human congenital disorders” Curr Top Dev Biol Vol.110 129-152 (2014)

Toki H, Inoue M, Minowa O, Motegi H, Saiki Y, Wakana S, Masuya H, Gondo Y, Shiroishi T, Yao R, Noda T “Novel retinoblastoma mutation abrogating the interaction to E2F2/3, but not E2F1, led to selective suppression of thyroid tumors” Cancer Sci Vol.105 1360-1368 (2014)

Murata T, Ishitsuka Y, Karouji K, Kaneda H, Toki H, Nakai Y, Makino S, Fukumura R, Kotaki H, Wakana S, Noda T, Gondo Y “ β -Catenin^{C429S} mice exhibit sterility consequent to spatiotemporally sustained Wnt signalling in the internal genitalia” Sci Rep vol.4 6959 (2014)

Naruse M, Ono R, Irie M, Nakamura K, Furuse T, Hino T, Oda K, Kashimura M, Yamada I, Wakana S, Yokoyama M, Ishino F, Kaneko-Ishino T “Sirh7/Ldoc1 knockout mice exhibit placental P4 overproduction and delayed parturition” Development Vol.141 4763-4771 (2014)

Arime Y, Fukumura R, Miura I, Mekada K, Yoshiki A, Wakana S, Gondo Y, Akiyama K “Effects of background mutations and single nucleotide polymorphisms (SNPs) on the Disc1 L100P behavioral phenotype associated with schizophrenia in mice” Behav Brain Funct Vol.10 45 (2014)

Mishima Y, Shinoda Y, Sadakata T, Kojima M, Wakana S, Furuchi T. “Lack of stress responses to long-term effects of corticosterone in Caps2 knockout mice” Sci Rep vol.5 8932 (2015)

Hirawatari K, Hanzawa N, Kuwahara M, Aoyama H, Miura I, Wakana S, Gotoh H “Polygenic Expression of Teratozoospermia and Normal Fertility in B10.MOL-TEN1 Mouse Strain” Congenit Anom (Kyoto) in press (2015)

International Conferences (Invited)

Wakana S “Challenging to RDoC matrix chart in the phenotypes of Grin1Rgsc174 mouse” KOMP2/IMPC Annual Consortium Meeting Washington DC USA, July 2014

*Wakana S “Trends in standardization of mouse phenotyping and introduction of the Japan Mouse Clinic” Seoul Korea, September 2014

*Wakana S “Trends in standardization of mouse phenotyping and introduction of the Japan Mouse Clinic” Seoul National University Seminar Seoul Korea, September 2014

*Wakana S “Introduction of the Japan Mouse Clinic and challenging of mouse behavior phenotyping” KRIBB Seminar Daejeon Korea, September 2014

*Wakana S “Trends in standardization of mouse phenotyping and introduction of the Japan Mouse Clinic” Korea Institute of Toxicology Seminar Daejeon Korea, September 2014

Suzuki T, Kaneda H, Kobayashi K, Miura I, Furuse T, Yamada I, Minowa O, Toki H, Tanaka N, Tamura M, Masuya H, Wakana S “RIKEN BRC Japan Mouse Clinic: Comprehensive mouse phenotyping for research supports and for IMPC” Towards precision medicine - Phenotyping human diseases in mice Canberra Australia, October 2014

*Wakana S “Trends in standardization of mouse phenotyping and the Japan Mouse Clinic”, AMMRA-AMPC Student Workshop Canberra Australia, October 2014

International Conferences (Participants): 3

Domestic Conferences (Invited)

中村彰宏、船谷浩之、鈴木智広、古瀬民生、若菜茂晴、柴田智広。“赤外線深度センサを用いた足跡解析システムの開発”、日本実験動物科学技術さっぽろ 2014、札幌、May 2014

田中信彦、土岐秀明、茂木浩未、鈴木智広、金田秀貴、三浦郁生、山田郁子、古瀬民生、小林喜美男、井上麻紀、美野輪治、野田哲生、若菜茂晴、樹屋啓志。“新規の疾患モデルマウスや生命現象の発見を目的としたデータマイニング：ワークフローの検討”、日本実験動物科学技術さっぽろ 2014、札幌、May 2014

美野輪治、相良嘉彦、加賀美智子、岡英治、土岐秀明、野田哲生、若菜茂晴。“日本マウスクリニックにおける循環呼吸器系表現型解析バッテリーの構築”、日本実験動物科学技術さっぽろ 2014、札幌、May 2014

Domestic Conferences (Participants): 33

Team for Advanced Development and Evaluation of Human Disease Models

Journals in English or non-Japanese (Peer reviewed)

Toki H, Inoue M, Minowa O, Motegi H, Saiki Y, Wakana S, Masuya H, Gondo Y, Shiroishi T, Yao R, Noda T, “Novel retinoblastoma mutation abrogating the interaction to E2F2/3, but not E2F1, led to selective suppression of thyroid tumors” Cancer Sci 105 1360-1368 (2014)

but not E2F1, led to selective suppression of thyroid tumors” Cancer Sci Vol.105 1360-1368 (2014)

Yao R, Kondoh Y, Natsume Y, Yamanaka H, Inoue M, Toki H, Takagi R, Shimizu T, Yamori T, Osada H, Noda T, “A small compound targeting TACC3 revealed its different spatiotemporal contributions for spindle assembly in cancer cells” Oncogene Vol.33 4242-4252 (2014)

Murata T, Ishitsuka Y, Karouji K, Kaneda H, Toki H, Nakai Y, Makino S, Fukumura R, Kotaki H, Wakana S, Noda T, Gondo Y, “ β -Catenin^{C429S} mice exhibit sterility consequent to spatiotemporally sustained Wnt signalling in the internal genitalia” Scientific Reports Vol.4: 6959 (2014)

Iizuka T, Kamiya K, Gotoh S, Suginami Y, Suzuki M, Noda T, Minowa O, Ikeda K. “Perinatal Gjb2 gene transfer rescues hearing in a mouse model of hereditary deafness.” Hum Mol Genet. 2015 Mar 23. pii: ddv109. [Epub ahead of print]

International Conferences (Participants): 4

Domestic Conferences (Participants): 4

Mutagenesis and Genomics Team

Journals in English or non-Japanese (Peer reviewed)

Ohno M, Sakumi K, Fukumura R, Furuichi M, Iwasaki Y, Hokama M, Ikemura T, Tsuzuki T, Gondo Y, Nakabeppu Y, “8-oxoguanine causes spontaneous de novo germline mutations in mice” Sci Rep 4 4689 (2014)

Ohnishi T, Murata T, Watanabe A, Hida A, Ohba H, Iwayama Y, Mishima K, Gondo Y, Yoshikawa T, “Defective craniofacial development and brain function in a mouse model for depletion of intracellular inositol synthesis” J Biol Chem 289 10785-10796 (2014)

SEQC/MAQC-III Consortium, “A comprehensive assessment of RNA-seq accuracy, reproducibility and information content by the Sequencing Quality Control Consortium” Nat Biotechnol 32 903-914 (2014)

Toki H, Inoue M, Minowa O, Motegi H, Saiki Y, Wakana S, Masuya H, Gondo Y, Shiroishi T, Yao R, Noda T “Novel retinoblastoma mutation abrogating the interaction to E2F2/3, but not E2F1, led to selective suppression of thyroid tumors” Cancer Sci 105 1360-1368 (2014)

Murata T, Ishitsuka Y, Karouji K, Kaneda H, Toki H, Nakai Y, Makino S, Fukumura R, Kotaki H, Wakana S, Noda T, Gondo Y, “ β -catenin^{C429S} mice exhibit sterility consequent to spatiotemporally sustained Wnt signalling in the internal genitalia” Sci Rep 4 6953 (2014)

Arime Y, Fukumura R, Miura I, Mekada K, Yoshiki A, Wakana S, Gondo Y, Akiyama K, “Effects of background mutations and single nucleotide polymorphisms (SNPs) on the Disc1 L100P behavioral phenotype associated with schizophrenia in mice” Behav Brain Funct 10 45 (2014)

Makino S, Zhulyn O, Mo R, Puvindran V, Zhang X, Murata T, Fukumura R, Ishitsuka Y, Kotaki H, Matsumaru D, Ishii S, Hui CC, Gondo Y, “T396I Mutation of Mouse Sufu Reduces the Stability and Activity of Gli3 Repressor” PLoS One 10 e0119455 (2015)

Hirose S, Touma M, Go R, Katsuragi Y, Sakuraba Y, Gondo Y, Abe M, Sakimura K, Mishima Y, Kominami R, “Bcl11b prevents the intrathymic development of innate CD8 T cells in a cell intrinsic manner” Int Immunol, in press (Epub ahead of print, 2014/11/24)

Sakamaki A, Katsuragi Y, Otsuka K, Tomita M, Obata M, Iwasaki T, Abe M, Sato T, Ochiai M, Sakuraba Y, Aoyagi Y, Gondo Y, Sakimura K, Nakagama H, Mishima Y, Kominami R, “Bcl11b SWI/SNF-complex subunit modulates intestinal adenoma and regeneration after γ -irradiation through Wnt/ β -catenin pathway” Carcinogenesis, in press (Epub ahead of print, 2015/3/31)

International Conferences (Invited)

Murata T, Makino S, Fukumura R, Yamada G, Gondo Y, “Caudal Wolffian duct with abnormally sustained Wnt/ β -catenin signal prevents upper vaginal elongation, which causes vaginal atresia in the *Ctnnb1*^{C429S} mouse” The 47th Annual Meeting of the Society for the Study of Reproduction (SSR2014) Grand Rapids USA, July 2014

Gondo Y, “Genomics and mutagenesis for bioresource development” The 3rd RIKEN BRC/Nanjing University MARC International Summer Intensive Course of the Mouse 2014 Tsukuba Japan, July 2014

Gondo Y, Fukumura R, “Mouse WES and WGS provide standardized assessment system for NGS analysis pipelines.” 6th Annual Next Generation Sequencing Congress & 2nd Annual Single Cell Analysis Congress London UK, November 2014

International Conferences (Participants): 4

Domestic Conferences (Invited)

権藤洋一、”ENU誘発変異マウスリソース：新しい疾患モデルとしての利用” 第31回定例基礎棟セミナー、栃木県下都賀郡壬生町、2014年4月14日

権藤洋一、”単一遺伝子疾患モデルから多因子疾患モデル開発へ：ENU変異マウスライブラリーの可能性” 福島県立医科大学医学部セミナー、福島市、2014年6月27日

権藤洋一、”NGS解析に基づく変異検出とマウス集団遺伝学への展開” 日本遺伝学会第86回大会、長浜市、2014年9月17日

作見邦彦、大野みづき、福村龍太郎、権藤洋一、岩崎裕貴、池村淑道、續輝久、中別府雄作、”DNA酸化損傷修復欠損マウスの継代実験で捉えられた遺伝現象” 日本遺伝学会第86回大会、長浜市、2014年9月17日

権藤洋一、”マウスの未知突然変異の検出と実験集団遺伝学” 日本動物遺伝育種学会第15回大会、和光市、2014年10月31日

作見邦彦、大野みづき、福村龍太郎、権藤洋一、岩崎裕貴、池村淑道、續輝久、中別府雄作、”8-oxoguanineに起因して新たに生じた生殖細胞突然変異の解析” 第37回日本分子生物学会年会、横浜市、2014年11月25日

増村健一、豊田尚美、権藤洋一、能美健彦、本間正充、”マウス全エクソンシークエンス解析による経世代突然変異の測定” 日本環境変異原学会第43回大会 東京、2014年12月4日

Domestic Conferences (Participants): 18

Technology and Development Unit for Knowledge Base of Mouse Phenotype

Journals in English or non-Japanese (Peer reviewed)

Toki H, Inoue M, Minowa O, Motegi H, Saiki Y, Wakana S, Masuya H, Gondo Y, Shiroishi T, Yao R, Noda T “Novel retinoblastoma mutation abrogating the interaction to E2F2/3, but not E2F1, led to selective suppression of thyroid tumors” Cancer Sci Vol.105 1360-1368 (2014)

Sarntivijai S, Lin Y, Xiang Z, Meehan T F, Diehl D A, Vempati U D, Schürer S C, Pang C, Malone J, Parkinson H, Liu Y,

Takatsuki T, Saijo K, Masuya H, Nakamura Y, Brush M H, Haendel M A, Zheng J, Stoeckert C J, Peters B, Mungall C J, Carey T E, States D J, Athey B D, He Y “CLO: The cell line ontology” Journal of Biomedical Semantics Vol.5 37 (2014)

International Conferences (Invited)

*Masuya H “Bioinformatics –Mouse Phenotyping Databases” AMMRA-AMPC Student Workshop Canberra Australia, October 2014

*Masuya H “Development of the mouse phenotype database” The 11th KOGO Winter Symposium 2015 Hongcheon Korea, February 2015

Domestic Conferences (Invited)

榎屋啓志、高月照江、齋藤実香子、高山英紀、吉田有子、蒔田由布子、望月芳樹、土井考爾、小林紀郎、豊田哲郎。“セマンティックWeb技術を用いた、生物表現型統合データベース”、JSAl2014 人口知能学会全国大会（第28回）、松山、May 2014

Domestic Conferences (Participants): 10

Ishii Research Collaborative Group

Journals in English or non –Japanese (Peer reviewed)

Shinagawa T, Huynh ML, Takagi T, Tsukamoto D, Tomaru C, Kwak HG, Dohmae N, Noguchi J, Ishii S, “Disruption of Th2a and Th2b genes causes defects in spermatogenesis” Development 142 1287-1292 (2015)

Makino S, Zhulyn O, Mo R, Puvindran V, Zhang X, Murata T, Fukumura R, Ishitsuka Y, Kotaki H, Matsumaru D, Ishii S, Hui CC, Gondo Y, “T396I mutation of mouse Sufu reduces the stability and activity of Gli3 repressor” PLOS One 10 e0119455 (2015)

Domestic Conferences (Participant): 3

Shinozaki Research Collaborative Group

Journals in English or non –Japanese (Peer reviewed)

Saito A, Tanabata S, Tanabata T, Tajima S, Ueno M, Ishikawa S, Ohtake N, Sueyoshi K, Ohyama T, “Effect of Nitrate on Nodule

and Root Growth of Soybean (*Glycine max* (L.) Merr.)” International journal of molecular sciences 15 4464-4480 (2014)

Okamoto M, Higuchi-Takeuchi M, Shimizu M, Shinozaki K, Hanada K, “Substantial expression of novel small open reading frames in *Oryza sativa*” Plant Signal Behav 9 e27848 (2014)

Esfahani M N, Sulieman S, Schulze J, Yamaguchi-Shinozaki K, Shinozaki K, Tran L S, “Approaches for enhancement of N(2) fixation efficiency of chickpea (*Cicer arietinum* L.) under limiting nitrogen conditions” Plant biotechnology journal 12 387-397 (2014)

Yoshida T, Fujita Y, Maruyama K, Mogami J, Todaka D, Shinozaki K, Yamaguchi-Shinozaki K, “Four *Arabidopsis* AREB/ABF transcription factors function predominantly in gene expression downstream of SnRK2 kinases in abscisic-acid signaling in response to osmotic stress” Plant Cell Environ (2014)

Yamamoto E, Iwata H, Tanabata T, Mizobuchi R, Yonemaru J, Yamamoto T, Yano M, “Effect of advanced intercrossing on genome structure and on the power to detect linked quantitative trait loci in a multi-parent population: a simulation study in rice” BMC genetics 15 50 (2014)

Ota Y, Ishiguro S, Aoyama E, Aiba R, Iwashiro R, Tanabata T, Takamure I, Fujino K, Kishima Y, “Isolation of a major genetic interaction associated with an extreme phenotype using assorted F2 population in rice” Molecular Breeding 33 997-1003 (2014)

Maruyama K, Urano K, Yoshiwara K, Morishita Y, Sakurai N, Suzuki H, Kojima M, Sakakibara H, Shibata D, Saito K, Shinozaki K, Yamaguchi-Shinozaki K, “Integrated analysis of the effects of cold and dehydration on rice metabolites, phytohormones, and gene transcripts” Plant Physiol 164 1759-1771 (2014)

Kuromori T, Sugimoto E, Shinozaki K, “Inter-tissue signal transfer of abscisic acid from vascular cells to guard cells” Plant Physiol 164 1587-1592 (2014)

Himuro Y, Ishiyama K, Mori F, Gondo T, Takahashi F, Shinozaki K, Kobayashi M, Akashi R, “*Arabidopsis* galactinol synthase *AtGolS2* improves drought tolerance in the monocot model *Brachypodium distachyon*” J Plant Physiol 171 1127-1131 (2014)

Sato H, Mizoi J, Tanaka H, Maruyama K, Qin F, Osakabe Y, Morimoto K, Ohori T, Kusakabe K, Nagata M, Shinozaki K, Yamaguchi-Shinozaki K, “Arabidopsis DPB3-1, a DREB2A

Interactor, Specifically Enhances Heat Stress-Induced Gene Expression by Forming a Heat Stress-Specific Transcriptional Complex with NF-Y Subunits” Plant Cell 26 4954-4973 (2014)

Goto S, Sasakura-Shimoda F, Suetsugu M, Selvaraj M, Ishitani M, Shimono M, Sugano S, Matsushita A, Tanabata T, Takatsuj H, “Development of disease-resistant rice by optimized expression of WRKY45” Plant Biotechnology Journal (2014)

Nakabayashi R, Yonekura-Sakakibara K, Urano K, Suzuki M, Yamada Y, Nishizawa T, Matsuda F, Kojima M, Sakakibara H, Shinozaki K, Michael A J, Tohge T, Yamazaki M, Saito K, “Enhancement of oxidative and drought tolerance in Arabidopsis by overaccumulation of antioxidant flavonoids” Plant J 77 367-379 (2014)

Nakashima K, Jan A, Todaka D, Maruyama K, Goto S, Shinozaki K, Yamaguchi-Shinozaki K, “Comparative functional analysis of six drought-responsive promoters in transgenic rice” Planta 239 47-60 (2014)

Satou M, Enoki H, Oikawa A, Ohta D, Saito K, Hachiya T, Sakakibara H, Kusano M, Fukushima A, Kobayashi M, Nagata N, Myouga F, Shinozaki K, Motohashi R, “Integrated analysis of transcriptome and metabolome of Arabidopsis albino or pale green mutants with disrupted nuclear-encoded chloroplast proteins” Plant Mol Biol 85 411-428 (2014)

Koizumi S, Ohama N, Mizoi J, Shinozaki K, Yamaguchi-Shinozaki K, “Functional analysis of the Hikeshi-like protein and its interaction with HSP70 in Arabidopsis” Biochem Biophys Res Commun 450 396-400 (2014)

Nasr Esfahani M, Sulieman S, Schulze J, Yamaguchi-Shinozaki K, Shinozaki K, Tran L S, “Mechanisms of physiological adjustment of N₂ fixation in *Cicer arietinum* L. (chickpea) during early stages of water deficit: single or multi-factor controls” Plant J 79 964-980 (2014)

小木 芳恵, 七夕 高也, 富田 桂, 小林 麻子, “スキヤナと画像解析ソフトを用いた炊飯米の白さの測定法” 育種学研究 16 115-120 (2014)

Miyaji T, Kuromori T, Takeuchi Y, Yamaji N, Yokosho K, Shimazawa A, Sugimoto E, Omote H, Ma J F, Shinozaki K, Moriyama Y, “AtPHT4;4 is a chloroplast-localized ascorbate transporter in Arabidopsis” Nature Commun 6 5928 (2015)

Kidokoro S, Watanabe K, Ohori T, Moriawaki T, Maruyama K, Mizoi J, Myint Phyu Sin Htwe N, Fujita Y, Sekita S, Shinozaki K, Yamaguchi-Shinozaki K, “Soybean DREB1/CBF-type

transcription factors function in heat and drought as well as cold stress-responsive gene expression” Plant J 81 505-518 (2015)

Mogami J, Fujita Y, Yoshida T, Tsukiori Y, Nakagami H, Nomura Y, Fujiwara T, Nishida S, Yanagisawa S, Ishida T, Takahashi F, Morimoto K, Kidokoro S, Mizoi J, Shinozaki K, Yamaguchi-Shinozaki K, “Two Distinct Families of Protein Kinases Are Required for Plant Growth under High External Mg²⁺ Concentrations in Arabidopsis” Plant Physiol (2015)

International Conferences (Invited)

Tanabata T, “Development of phenotyping technology for rice breeding” International colloquium on plant phonemics TOYOTA Commemorative Musium of Industry and Technology Nagoya, Japan, May 30 2014

Mizoi J, Qin F, Kidokoro S, Shinozaki K, Yamaguchi-Shinozaki K, “Functional analysis of the negative regulatory domain in the post-translational regulation of the AP2/ERF-type transcription factor DREB2A in Arabidopsis” Gordon Research Conference on Plant Molecular Biology New Hampshire USA, July 20-25 2014

Osakabe Y, Shinozaki K, “Genetic engineering of abiotic stress response and plant growth in Arabidopsis” The 25th International Conference on Arabidopsis Research (ICAR) Vancouver, Canada, July 28 to August 1 2014

Shinozaki K, “Regulatory gene network in drought stress response and tolerance” International Association of Plant Biotechnology Congress 2014 Melbourne, Australia, August 10-15 2014

Nakabayashi R, Yonekura-Sakakibara K, Urano K, Suzuki M, Yamada Y, Nishizawa T, Matsuda F, Kojima M, Sakakibara H, Shinozaki K, Michael A J, Tohge T, Yamazaki M, Saito K, “Oxidative and Drought Stress Tolerance by Flavonoid Overaccumulation in *Arabidopsis thaliana*” The XXVIIth International Conference on Polyphenols & The 8th Tannin Conference Nagoya Japan, Sep 2-6 2014

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