

## Bioresource Engineering Division

### Journals in English or non-Japanese (Peer reviewed)

Motomura K, Inoue K, Ogura A, “Selection of accurate reference genes in mouse trophoblast stem cells for reverse transcription–quantitative polymerase chain reaction” *J Reprod Dev* (in press)

Hasegawa A, Mochida K, Inoue H, Noda Y, Endo T, Watanabe G, Ogura A, “High-yield superovulation in adult mice by anti-inhibin serum treatment combined with estrous cycle synchronization” *Biol Reprod* 94: 21 (1-8), 2016.

Hatanaka Y, Inoue K, Oikawa M, Kamimura S, Ogonuki N, Kodam E, Ohkawa Y, Tsukada Y, Ogura A, “Histone chaperone CAF-1 mediates repressive histone modifications to protect preimplantation mouse embryos from endogenous retrotransposon” *Proc Natl Acad Sci USA* 112:14641-14646, 2015.

Inoue K, Ogura A, “In quest of genomic treasure” *J Reprod Dev* 61: 489-493, 2015.

Sato T, Sakuma T, Yokonishi T, Katagiri K, Kamimura S, Ogonuki N, Ogura A, Yamamoto T, Ogawa T, “Genome Editing in Mouse Spermatogonial Stem Cell Lines Using TALEN and Double-Nicking CRISPR/Cas9” *Stem Cell Reports* 5: 75-82, 2015.

Kuroki S, Akiyoshi M, Ideguchi K, Kitano S, Miyachi H, Hirose M, Mise N, Abe K, Ogura A, Tachibana M, “Development of a general-purpose method for cell purification using Cre/loxP-mediated recombination” *Genesis* 53:387-393, 2015.

### International Conferences (Invited)

Hatanaka Y, Shimizu N, Morita K, Satoh M, Honda A, Hirose M, Kamimura S, Ogonuki N, Nakamura T, Inoue K, Hosoi Y, Nakano T, Matsumoto K, Ogura A, “Histone H3R17me2a Mark Recruits Tet3 to Initiate Active DNA Demethylation in mouse Zygotes” THE 40th NAITO CONFERENCE “Epigenetics — From Histone Code to Therapeutic Strategy”, Sapporo, September 2015

Matoba S, Liu Y, Lu F, Iwabuchi K, Shen L, Inoue A, Zhang Y, “Histone H3-Lysine 9 Trimethylation Is an Epigenetic Barrier for Somatic Cell Nuclear Transfer Reprogramming” The 40th Naito Conference on Epigenetics—From Histone Code to Therapeutic Strategy, Sapporo, Japan, September 2016

Ogura A, “Development of reproductive engineering techniques in mice” The 3rd Symposium of Thai Society for Animal

Reproduction, Bangkok, Thailand, January 2016

Ogura A, “Nuclear transfer in the study of developmental epigenetic” International Symposium for RIKEN Epigenetics Program 2016, Wako, Japan, February 2016

Ogura A, “Epigenetic dynamics in embryos during the periimplantation period: comparison of fertilization-derived and SCNT-derived embryos” International Symposium on Epigenome Dynamics and Regulation in Germ Cells, Kyoto, Japan, February 2016

Ogura A, “Nuclear transfer for the study of developmental epigenetic ” International Symposium on the Future of Nuclear Transfer and Nuclear Reprogramming, Yamanashi, Japan, February 2016

### International Conferences (Participants): 6

#### Domestic Conferences (Invited)

Hatanaka Y, “Identification of the Molecular Mechanisms for Active DNA Demethylation in Zygotes”, 60th Annual Meeting of JSRM Yokohama, April 2015

Mochida K, “Technical tips of reproductive and developmental engineering - in vitro fertilization”, the 17th REG meeting Tokyo November 2015

#### Domestic Conferences (Participants): 13

## Technology and Development Team for Mammalian Cellular Dynamics

### Journals in English or non-Japanese (Peer reviewed)

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)

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* 4, 744-757 (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* 5, 10127 (2015)

Mizutani E, Oikawa M, Kasai 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* 92, 1-11 (2015)

Kuroki S, Akiyoshi M, Ideguchi K, Kitano S, Miyachi H, Mise N, Abe K, Ogura A, Tachibana M, “Development of a general-purpose method for cell purification using Cre/loxP-mediated recombination” *Genesis* 53, 387-393 (2015)

Suzuki S, Nozawa Y, Tsukamoto S, Kaneko T, Imai H, Minami N, “CHD1 acts via the Hmgpi pathway to regulate mouse early embryogenesis” *Development* 142, 2375-2384 (2015)

Suzuki S, Nozawa Y, Tsukamoto S, Kaneko T, Imai H, Minami N, “Histone methyltransferase Smyd3 regulates early embryonic lineage commitment in the mouse” *Reproduction* 150, 21-30 (2015)

Suzuki S, Tsukiyama T, Kaneko T, Imai H, Minami N, “A hyperactive piggyBack transposon system is an easy-to-implement method for introducing foreign genes into mouse preimplantation embryos” *J Reprod Dev* 61, 241-244 (2015)

#### International Conferences (Participants): 2

#### Domestic Conferences (Invited)

阿部訓也 “tw5 and mouse early embryogenesis: developmental genetics of t-complex”

“tw5 遺伝子とマウス初期発生：t-コンプレックスの発生遺伝学”

日本発生生物学会第48回大会 つくば市 5月2015年

#### Domestic Conferences (Participants): 10

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

#### Journals in English or non-Japanese (Peer reviewed)

Kimura M, Ichimura S, Sasaki K, Masuya H, Suzuki T, Wakana S, Ikegawa S, Furuichi, “Endoplasmic reticulum stress-mediated apoptosis contributes to a skeletal dysplasia resembling platyspondylic lethal skeletal dysplasia, Torrance type, in a novel Col2a1 mutant mouse line” *Biochem Biophys Res Commun* 468 86-91 (2015)

Irie M, Yoshikawa M, Ono R, Iwafune H, Furuse T, Yamada I, Wakana S, Yamashita Y, Abe T, Ishino F, Kaneko-Ishino T, “Cognitive Function Related to the Sirh11/Zcchc16 Gene Acquired from an LTR Retrotransposon in Eutherians” *PLoS*

*Genet* Vol.11, e1005521 (2015)

Konno D, Kasukawa T, Hashimoto K, Itoh T, Suetsugu T, Miura I, Wakana S, Carninci P, Matsuzaki F “STAP cells are derived from ES cells” *Nature* 525 E4-5 (2015)

Uchimura A, Higuchi M, Minakuchi Y, Ohno M, Toyoda A, Fujiyama A, Miura I, Wakana S, Nishino J, Yagi T “Germline mutation rates and the long-term phenotypic effects of mutation accumulation in wild-type laboratory mice and mutator mice” *Genome Res* 25 1124-1134 (2015)

Maier H, Schütt C, Steinkamp R, Hurt A, Schneltzer E, Gormanns P, Lengger C, Griffiths M, Melvin D, Agrawal N, Alcantara R, Evans A, Gannon D, Holroyd S, Kipp C, Raj NP, Richardson D, LeBlanc S, Vasseur L, Masuya H, Kobayashi K, Suzuki T, Tanaka N, Wakana S, Walling A, Clary D, Gallegos J, Fuchs H, de Angelis MH, Gailus-Durner V, “Principles and application of LIMS in mouse clinics” *Mamm Genome* 26 467-81 (2015)

Nakamura A, Funaya H, Uezono N, Nakashima K, Ishida Y, Suzuki T, Wakana S, Shibata T, “Low-cost Three-Dimensional Gait Analysis System for Mice with an Infrared Depth Sensor” *Neurosci Res* 100 55-62 (2015)

Tamura M, Shiroishi T. “GSDM family genes meet autophagy” *Biochem J*, 469 e5-e7 (2015)

Kamimura D, Katsunuma K, Arima Y, Atsumi T, Jiang JJ, Bando H, Meng J, Sabharwal L, Stofkova A, Nishikawa N, Suzuki H, Ogura H, Ueda N, Tsuruoka M, Harada M, Kobayashi J, Hasegawa T, Yoshida H, Koseki H, Miura I, Wakana S, Nishida K, Kitamura H, Fukada T, Hirano T, Murakami M. “KDEL receptor 1 regulates T-cell homeostasis via PP1 that is a key phosphatase for ISR” *Nat Commun* 6 7474 (2015)

Karp NA, Meehan TF, Morgan H, Mason JC, Blake A, Kurbatova N, Smedley D, Jacobsen J, Mott RF, Iyer V, Matthews P, Melvin DG, Wells S, Flenniken AM, Masuya H, Wakana S, White JK, Lloyd KC, Reynolds CL, Paylor R, West DB, Svenson KL, Chesler EJ, de Angelis MH, Tocchini-Valentini GP, Sorg T, Herault Y, Parkinson H, Mallon AM, Brown SD, “Applying the ARRIVE Guidelines to an In Vivo Database” *PLoS Biol* 13 e1002151 (2015)

Hirawatari K, Hanzawa N, Miura I, Wakana S, Gotoh H, “A Cascade of epistatic interactions regulating teratozoospermia in mice” *Mamm Genome* 26 248-256 (2015)

Kawaai K, Mizutani A, Shoji H, Ogawa N, Ebisui E, Kuroda Y,

Wakana S, Miyakawa T, Hisatsune C, Mikoshiba K, “IRBIT regulates CaMKII $\alpha$  activity and contributes to catecholamine homeostasis through tyrosine hydroxylase phosphorylation”, *PNAS* 112 5515-5520 (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* 55 92-98 (2015)

#### International Conferences (Invited)

Wakana S, “A comprehensive mouse phenotyping platform in the Japan Mouse Clinic” 2015 The 30th anniversary KALAS Internaional Symposium, Incheon Korea, August 2015

#### International Conferences (Participants): 15

#### Domestic Conferences (Invited)

Tamura M, “Development and application of the soft tissue imaging method using the micro-CT”, The 37th Annual Meeting of the Japanese Society for Biomaterials, Kyoto Terrs, Kyoto, November 2015

Wakana S, “Systematic phenotyping in Japan Mouse Clinic: Comparative phenotype among the AhR deficient mutant mouse” The 1st Seminar of the Disease Prevention Laboratory in Graduate School of Human Sciences, Waseda University, Tokorozawa, July 2015

Tamura M, “Development of CT imaging technology for the mouse phenotyping” The 48th Annual Meeting of the Japanese Society of Developmental Biologists/ Asia Pacific Developmental Biology Network, International Congress Center Epochal Tsukuba, Tsukuba, June 2015

Tamura M, “Imaging technology changes animal experiments; application of micro-CT imaging to the 3Rs” The 62nd Annual Meeting of Japanese Association for Laboratory Animal Science, Kyoto Terrs, Kyoto, May 2015

#### Domestic Conferences (Participants): 26

## Team for Advanced Development and Evaluation of Human Disease Models

#### Journals in English or non-Japanese (Peer reviewed)

Motegi H, Tsuboi Y, Saga A, Kagami T, Inoue M, Toki H, Minowa O, Noda T, Kikuchi J, “Identification of reliable components in multivariate curve resolution-alternating least

squares (MCR-ALS): a data-driven approach across metabolic processes” *Sci Rep* 5 15710 (2015)

Anzai T, Fukunaga I, Hatakeyama K, Fujimoto A, Kobayashi K, Nishikawa A, Aoki T, Noda T, Minowa O, Ikeda K, Kamiya K, “Deformation of the outer hair cells and the accumulation of caveolin-2 in connexin 26 deficient mice” *PLoS One* 10 e0141258 (2015)

#### International Conferences (Participants): 1

#### Domestic Conferences (Participants): 3

## Mutagenesis and Genomics Team

#### Journals in English or non-Japanese (Peer reviewed)

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* 27 205-215 (2015)

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  $\gamma$ -irradiation through Wnt/ $\beta$ -catenin pathway” *Carcinogenesis* 36 622-631 (2015)

Shibata N, Ohoka N, Sugaki Y, Onodera C, Inoue M, Sakuraba Y, Takakura D, Hashii N, Kawasaki N, Gondo Y, Naito M, “Degradation of stop codon read-through mutant proteins via the ubiquitin-proteasome system causes hereditary disorders” *J Biol Chem* 290 28428-28437 (2015)

Mun HS, Saab BJ, Ng E, McGirr A, Lipina TV, Gondo Y, Georgiou J, Roder JC, “Self-directed exploration provides a Ncs1-dependent learning bonus” *Sci Rep* 5 17697 (2015) <http://www.nature.com/articles/srep17697> (doi: 10.1038/srep17697)

Kim YJ, Kang Y, Park HY, Lee JR, Yu DY, Murata T, Gondo Y, Hwang JH, Kim YH, Lee CH, Rhee M, Han PL, Chung BH, Lee HJ, Kim KS, “STEP signaling pathway mediates psychomotor stimulation and morphine withdrawal symptoms, but not for reward, analgesia and tolerance” *Exp Molec Med* (2015) in press. (doi: 10.1038/emm.2016.1)

## International Conferences (Invited)

Murata T, Makino S, Fukumura R, Kaneda H, Toki H, Wakana S, Noda T, Yamada G, Gondo Y, “New Infertile Mouse Model for Mayer–Rokitansky–Küster–Hauser syndrome (MRKH)” IFFS/JSRM International Meeting 2015 Yokohama Japan, April 2015 (Invited, Award nominated presentation)

Gondo Y, “Detection of spontaneous mutations in mammalian genomes” Biological and Medical Science based on Physics, Kyoto, Japan, November 2014 (Opening Session Keynote Presentation)

Gondo Y, “Genetics, mutagenesis and genomics with standardized mouse inbred strains.” Fudan University School of Pharmacy Seminar, Shanghai, China, December 2015 (Invited presentation)

## International Conferences (Participants): 6

## Domestic Conferences (Invited)

権藤洋一, “次世代シーケンシングに基づく新しいマウス遺伝学の展開” 東海医学会、伊勢原市、2015年4月28日 (招待講演)

Gondo Y, “Advancement for new mouse genetics based on next-generation sequencing” Tokai Medical Association Symposium Isehara Japan, April 2015 (invited)

権藤洋一, “ゲノム時代における遺伝学のこれから” 2015年度神奈川生物教育研究会総会、横浜市、2015年6月20日 (招待基調講演)

Gondo Y, “Now and future of genetics in the genome era” Annual Meeting Symposium of Kanagawa Biological Education Association Yokohama Japan, June 2015 (invited)

## Technology and Development Unit for Knowledge Base of Mouse Phenotype

## Journals in English or non-Japanese (Peer reviewed)

Karp NA, Meehan TF, Morgan H, Mason JC, Blake A, Kurbatova N, Smedley D, Jacobsen J, Mott RF, Iyer V, Matthews P, Melvin DG, Wells S, Flenniken AM, Masuya H, Wakana S, White JK, Lloyd KC, Reynolds CL, Paylor R, West DB, Svenson KL, Chesler EJ, de Angelis MH, Tocchini-Valentini GP, Sorg T, Herault Y, Parkinson H, Mallon AM, Brown SD, “Applying the ARRIVE Guidelines to an In Vivo Database” *PLoS Biol* 13 e1002151 (2015)

Maier H, Schütt C, Steinkamp R, Hurt A, Schneltzer E,

Gormanns P, Lengger C, Griffiths M, Melvin D, Agrawal N, Alcantara R, Evans A, Gannon D, Holroyd S, Kipp C, Raj NP, Richardson D, LeBlanc S, Vasseur L, Masuya H, Kobayashi K, Suzuki T, Tanaka N, Wakana S, Walling A, Clary D, Gallegos J, Fuchs H, de Angelis MH, Gailus-Durner V, “Principles and application of LIMS in mouse clinics” *Mamm Genome* 26, 467-81 (2015)

Kimura M, Ichimura S, Sasaki K, Masuya H, Suzuki T, Wakana S, Ikegawa S, Furuichi, “Endoplasmic reticulum stress-mediated apoptosis contributes to a skeletal dysplasia resembling platyspondylic lethal skeletal dysplasia, Torrance type, in a novel Col2a1 mutant mouse line” *Biochem Biophys Res Commun* 468 86-91 (2015)

## International Conferences (Invited)

Masuya H, “Development of an integrated phenotype database of experimental animals” 2015 The 30th anniversary KALAS Internaional Symposium, Incheon Korea, August 2015

## International Conferences (Participants): 6

## Domestic Conferences (Participants): 10

## Ishii Research Collaborative Group

## Journals in English or non-Japanese (Peer reviewed)

Yoshida K, Maekawa T, Zhu Y, Renard-Guillet C, Chatton B, Inoue K, Uchiyama T, Ishibashi K, Yamada T, Ohno N, Shirahige K, Okada-Hatakeyama M, Ishii S, “The transcription factor ATF7 mediates lipopolysaccharide-induced epigenetic changes in macrophages involved in innate immunological memory” *Nat Immunol* 16 1034-1043 (2015)

Padavattan S, Shinagawa T, Hasegawa K, Kumasaka T, Ishii S, Kumarevel T, “Structural and functional analyses of nucleosome complexes with mouse histone variants TH2a and TH2b, involved in reprogramming” *Biochem Biophys Res Commun* 464 929-935 (2015)

Choi JK, Zhu A, Jenkins BG, Hattori S, Kil KE, Takagi T, Ishii S, Miyakawa T, Brownell AL, “Combined behavioral studies and in vivo imaging of inflammatory response and expression of mGlu5 receptors in schnurri-2 knockout mice” *Neurosci. Lett* 609 159-164 (2015)

Huynh ML, Shinagawa T, Ishii S, “Two histone variants TH2A and TH2B enhance human iPS cell generation” *Stem Cells Dev* 25 251-258 (2016)

Liu B, Maekawa T, Ishii S, “In utero TNF- $\alpha$  treatment induces telomere shortening in young adult mice in an ATF7-dependent manner” *FEBS Open Bio* In press (2016)

Yoshida K, Renard-Guillet C, Inoue K, Shirahige K, Okada-Hatakeyama M, Ishii S, “Microarray expression analysis of genes involved in innate immune memory in peritoneal macrophages” *Genomics Data* in press (2016)

#### International Conferences (Invited)

Shunsuke Ishii, “Epigenome changes induced by environmental factors and their inheritance” The 40th Naito Conference on Epigenetics — From Histone Code to Therapeutic Strategy. Sapporo, Sep 15-18, 2015

Shunsuke Ishii, “Epigenetic changes are key to innate immunological memory” International Symposium on Immune Regulation, Ooarai, Oct 29-30, 2015

#### International Conferences (Participants): 3

#### Domestic Conferences (Invited)

石井 俊輔, 環境要因によるエピゲノム変化と疾患、第33回内分泌代謝学サマーセミナー、柳川、7月9-11日、2015

石井 俊輔, Epigenome changes induced by environmental factors and their memory. シンポジウム Maintenance and plasticity of epigenetic memory. 第38回日本分子生物学会年会、神戸、12月4日、2015

#### Domestic Conferences (Participants): 3

## Shinozaki Research Collaborative Group

#### Journals in English or non-Japanese (Peer reviewed)

Todaka D, Shinozaki K, Yamaguchi-Shinozaki K, “Recent advances in the dissection of drought-stress regulatory networks and strategies for development of drought-tolerant transgenic rice plants” *Front Plant Sci* 6 84 (2015)

Ramadan A, Nemoto K, Seki M, Shinozaki K, Takeda H, Takahashi H, Sawasaki T, “Wheat germ-based protein libraries for the functional characterisation of the Arabidopsis E2 ubiquitin conjugating enzymes and the RING-type E3 ubiquitin ligase enzymes” *BMC Plant Biol* 15 275 (2015)

Onda Y, Mochida K, Yoshida T, Sakurai T, Seymour R S,

Umekawa Y, Pirintsos S A, Shinozaki K, Ito K, “Transcriptome analysis of thermogenic *Arum concinatum* reveals the molecular components of floral scent production” *Sci Rep* 5 8753 (2015)

Takei Y, Mochida K, Sakurai T, Yoshida T, Shinozaki K, Shimada Y, “Transcriptome analysis of hormone-induced gene expression in *Brachypodium distachyon*” *Sci Rep* 5 14476 (2015)

Hori K, Nonoue Y, Ono N, Shibaya T, Ebana K, Matsubara K, Ogiso-Tanaka E, Tanabata T, Sugimoto K, Taguchi-Shiobara F, Yonemaru J-i, Mizobuchi R, Uga Y, Fukuda A, Ueda T, Yamamoto S-i, Yamanouchi U, Takai T, Ikka T, Kondo K, Hoshino T, Yamamoto E, Adachi S, Nagasaki H, Shomura A, Shimizu T, Kono I, Ito S, Mizubayashi T, Kitazawa N, Nagata K, Ando T, Fukuoka S, Yamamoto T, Yano M, “Genetic architecture of variation in heading date among Asian rice accessions” *BMC Plant Biol* 15 115 (2015)

Higashi Y, Okazaki Y, Myouga F, Shinozaki K, Saito K, “Landscape of the lipidome and transcriptome under heat stress in *Arabidopsis thaliana*” *Sci Rep* 5 10533 (2015)

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* 38 35-49 (2015)

Takahashi F, Tilbrook J, Trittermann C, Berger B, Roy S J, Seki M, Shinozaki K, Tester M, “Comparison of Leaf Sheath Transcriptome Profiles with Physiological Traits of Bread Wheat Cultivars under Salinity Stress” *PloS One* 10 e0133322 (2015)

Onda Y, Hashimoto K, Yoshida T, Sakurai T, Sawada Y, Hirai M Y, Toyooka K, Mochida K, Shinozaki K, “Determination of growth stages and metabolic profiles in *Brachypodium distachyon* for comparison of developmental context with Triticeae crops” *Proceedings Biological sciences / The Royal Society*, 282 (2015)

Nemoto K, Takemori N, Seki M, Shinozaki K, Sawasaki T, “Members of the Plant CRK-superfamily are Capable of trans-/auto-Phosphorylation of Tyrosine Residues” *J Biol Chem* 290 16665-16677 (2015)

Ito T, Kondoh Y, Yoshida K, Umezawa T, Shimizu T, Shinozaki K, Osada H, “Novel Abscisic Acid Antagonists Identified with Chemical Array Screening” *Chembiochem* 16 2471-2478

(2015)

Takasaki H, Maruyama K, Takahashi F, Fujita M, Yoshida T, Nakashima K, Myouga F, Toyooka K, Yamaguchi-Shinozaki K, Shinozaki K, “SNAC-As, stress-responsive NAC transcription factors, mediate ABA-inducible leaf senescence” *Plant J* 84 1114-1123 (2015)

Ohama N, Kusakabe K, Mizoi J, Zhao H, Kidokoro S, Koizumi S, Takahashi F, Ishida T, Yanagisawa S, Shinozaki K, Yamaguchi-Shinozaki K, “The transcriptional cascade in the heat stress response of Arabidopsis is strictly regulated at the expression levels of transcription factors” *Plant Cell* in press (2016)

Sato H, Todaka D, Kudo M, Mizoi J, Kidokoro S, Zhao Y, Shinozaki K, Yamaguchi-Shinozaki K, “The Arabidopsis transcriptional regulator DPB3-1 enhances heat stress tolerance without growth retardation in rice” *Plant Biotechnol J* in press (2016)

#### International Conferences (Invited)

Shinozaki K, Yamaguchi-Shinozaki K, “Regulatory systems in drought stress responses and adaptation” 2015 International Symposium on Plant Science & Annual Conference of the Korean Society of Plant Biologists, Daejeon Korea, November 5-6 2015 (\*Keynote Lecture)

#### International Conferences (Participants): 7

#### Domestic Conferences (Invited)

Fujita M, “Development of research platform for plant phenotyping” The 4th Bracypodium Workshop, Tsukuba November 9 2015

Umezawa T, Honda Y, Sugiyama N, Anderson J, Peck S, Takezawa D, Sakata Y, Shinozaki K, “Identification of SnRK2 substrates with phospho-proteomics approach” The 57th Annual Meeting of The Japanese Society of Plant Physiologists, Morioka March 18-20 2016

#### Domestic Conferences (Participants): 35

