

001 Estevez J, Cantero A, Romero C, Kawaide H, Jimenez L, Kuzuyama T, Seto H, Kamiya Y, Leon P, "Analysis of the expres-sion of *CLA1*, a gene that encodes the 1-deoxyxylulose 5-phos-phate synthase of the 2-C-methyl-D-erythritol-4-phosphate pathway in Arabidopsis" *Plant Physiology* **124** 95-103 (2000)

002 Fukazawa J, Sakai T, Ishida S, Yamaguchi I, Kamiya Y, Taka-hashi Y, "Repression of Shoot Growth, a bZIP transcriptional activator, regulates cell elongation by controlling the level of gibberellins" *The Plant Cell* **12** 901-915 (2000)

003 Fukuda H, "Programmed cell death of tracheary elements as a paradigm in plants" *Plant Molecular Biology* **44** 245-253 (2000)

004 Ghassemian M, Nambara E, Cutler S, Kawaide H, Kamiya Y, McCourt P, "Regulation of abscisic acid signaling by the ethyl-ene response pathway in Arabidopsis" *The Plant Cell* **12** 1117-1126 (2000)

005 Jones R, Harberd N, Kamiya Y, "Gibberellins 2000" *Trends in Plant Science* **5** 320-321 (2000)

006 Min X, Okada K, Brockmann B, Koshiba T, Kamiya Y, "Molecu-lar cloning and expression patterns of three putative func-tional aldehyde oxidase genes and isolation of two aldehyde oxidase pseudogenes in tomato" *Biochimica et Biophysica Acta* **1493** 337-341 (2000)

007 Nakashima J, Takabe K, Fujita M, Fukuda H, "Autolysis during in vitro tracheary element differentiation: Formation and lo-cation of the perforation" *Plant Cell Physiology* **41** 1267-1271 (2000)

008 Nambara E, Hayama R, Tsuchiya Y, Nishimura M, Kawaide H, Kamiya Y, Naitou S, "The role of *ABI3* and *FUS3* loci in *Arabi-dopsis thaliana* on phase transition from late embryo develop-ment to germination" *Developmental Biology* **220** 412-423 (2000)

009 Sang S, Lao A, Chen Z, Uzawa J, Fujimoto Y, "Three new triter-penoid saponins from the seeds of *Vaccaria segetalis*" *Journal of Asian Natural Products Research* **2** 187-193 (2000)

010 Sang S, Lao A, Leng Y, Gu Z, Chen Z, Uzawa J, Fujimoto Y, "Segetoside F a new triterpenoid saponin with inhibition of luteal cell from the seeds of *Vaccaria segetalis*" *Tetrahedron Letters* **41** 9205-9207 (2000)

011 Seo M, Koiwai H, Akaba S, Komano T, Oritani T, Kamiya Y, Koshiba T, "Abscisic aldehyde oxidase in leaves of *Arabidopsis thaliana*" *The Plant Journal* **23** 481-488 (2000)

012 Seo M, Peeters A, Koiwai H, Oritani T, Marion-Poll A, Zeevaart J, Koornneef M, Kamiya Y, Koshiba T, "The *Arabidopsis* alde-hyde oxidase 3 (*AAO3*) gene product catalyzes the final step in abscisic acid biosynthesis in leaves" *Proceedings of the Na-tional Academy of Sciences of the United States of America* **97** 12908-12913 (2000)

013 Sugiyama M, Ito J, Aoyagi S, Fukuda H, "Endonucleases" *Plant Molecular Biology* **44** 387-397 (2000)

014 Arai Y, Nakashita H, Doi Y, Yamaguchi I, "Plastid targeting of polyhydroxybutyrate biosynthetic pathway in tobacco" *Plant Biotechnology* **18** 289-293 (2001)

015 Asami T, Mizutani M, Fujioka S, Goda H, Min Y, Shimada Y, Nakano T, Takatsuto S, Matsuyama T, Nagata N, Sakata K, Yoshida S, "Selective interaction of triazole derivatives with DWF4, a cytochrome P450 monooxygenase of the brassino-steroid biosynthetic pathway, correlates with brassinosteroid deficiency in *Planta*" *The Journal of Biological Chemistry* **276** 25687-25691 (2001)

016 Bhaya D, Takahashi A, Grossman A, "Light regulation of type IV pilus-dependent motility by chemosensor-like elements in *Synechocystis* PCC6803" *Proceedings of the National Acad-emy of Sciences of the United States of America* **98** 7540-7545 (2001)

017 Bhaya D, Takahashi A, Shahi P, Grossman A, "Novel motility mutants of *Synechocystis* strain PCC 6803 generated by in vitro transposon mutagenesis" *Journal of Bacteriology* **183** 6140-6143 (2001)

018 Brockmann B, Smith M, Zarainsky A, Harrison K, Okada K, Kamiya Y, "Subcellular localization and targeting of glucocor-ticoid receptor protein fusions expressed in transgenic *Arabi-dopsis thaliana*" *Plant Cell Physiology* **42** 942-951 (2001)

019 Eckardt N, Araki T, Benning C, Cubas P, Goodrich J, Jacobsen S, Masson P, Nambara E, Simon R, Somerville S, Wasteneys G, "Arabidopsis research 2001" *The Plant Cell* **13** 1973-1982 (2001)

020 Eizuka T, Sato T, Chida T, Yamaguchi I, "Simple method for monitoring the sensitivity of *Pyricularia oryzae* to fthalide" *Journal of Pesticide Science* **26** 385-389 (2001)

021 Endo S, Demura T, Fukuda H, "Inhibition of proteasome activ-ity by the TED4 protein in extracellular space: A novel mecha-nism for protection of living cells from injury caused by dying cells" *Plant Cell Physiology* **42** 9-19 (2001)

022 Grossman A, Takahashi H, "Macronutrient utilization by pho-tosynthetic eukaryotes and the fabric of interactions" *Annual Review of Plant Physiology Plant Molecular Biology* **52** 163-210 (2001)

023 Hamamoto H, Hasegawa K, Nakaune R, Lee Y, Akutsu K, Hibi T, "PCR-based detection of sterol demethylation inhibitor-resistant strains of *Penicillium digitatum*" *Pest Management Science* **57** 839-843 (2001)

024 Hamamoto H, Nawata O, Hasegawa K, Nakaune R, Lee Y, Makizumi Y, Akutsu K, Hibi T, "The role of the ABC transport-er gene *PMR1* in demethylation inhibitor resistance in *Penicil-lium digitatum*" *Pesticide Biochemistry and Physiology* **70** 19-26 (2001)

025 Kagawa T, Sakai T, Suetsugu N, Oikawa K, Ishiguro S, Kato T, Tabata S, Okada K, Wada M, "*Arabidopsis* NPL1: A phototro-pin homolog controlling the chloroplast high-light avoidance response" *Science* **291** 2138-2141 (2001)

026 Kim H, Yamaguchi I, Cho K, "The secondary effects of Pen-cycuron on the formation of giant protoplasts and the lipid peroxidation of *Rhizoctonia solani* AG4" *The Plant Pathology Journal* **17** 36-39 (2001)

027 Kimura M, Anzai H, Yamaguchi I, "Microbial toxins in plant-pathogen interactions: Biosynthesis, resistance mechanisms, and significance" *The Journal of General and Applied Micro-biology* **47** 149-160 (2001)

028 Maruyama-Nakashita A, Saito K, Ishizawa K, "β-Cyanoalanine synthase and cysteine synthase from potato: Molecular clon-ing, biochemical characterization, and spatial and hormonal regulation" *Plant Molecular Biology* **46** 749-760 (2001)

029 Matsuoka K, Schekman R, Orci L, Heuser J, "Surface structure of the COPII-coated vesicle" *Proceedings of the National Acad-emy of Sciences of the United States of America* **98** 13705-13709 (2001)

030 Motose H, Sugiyama M, Fukuda H, "An arabinogalactan protein(s) is a key component of a fraction that mediates lo-cal intercellular communication involved in tracheary element differentiation of zinnia mesophyll cells" *Plant Cell Physiology* **42** 129-137 (2001)

031 Motose H, Sugiyama M, Fukuda H, "Cell-cell interactions dur-ing vascular development" *Journal of Plant Research* **114** 473-481 (2001)

032 Nagata N, Asami T, Yoshida S, "Brassinazole, an inhibitor of brassinosteroid biosynthesis, inhibits development of second-ary xylem in cress plants (*Lepidium sativum*)" *Plant and Cell Physiology* **42** 1006-1011 (2001)

033 Nagatsuka Y, Kasama T, Ohashi Y, Uzawa J, Ono Y, Shimizu K, Hirabayashi Y, "A new phosphoglycerolipid, 'phosphatidylglu-cose', found in human cord red cells by multi-reactive mono-clonal anti-i cold agglutinin, mAb GL-1/GL-2" *FEBS Letters* **497** 141-147 (2001)

034 Nakajima N, Hiradate S, Fujii Y, "Plant growth inhibitory activ-ity of L-canavanine and its mode of action" *Journal of Chemi-cal Ecology* **27** 19-31 (2001)

035 Nakashita H, Arai Y, Shikanai T, Doi Y, Yamaguchi I, "Introduc-tion of bacterial metabolism into higher plants by polycys-tronic transgene expression" *Bioscience Biotechnology and Biochemistry* **65** 1688-1691 (2001)

036 Nakayama T, Sato T, Fukui Y, Sakakibara K, Hayashi H, Tanaka Y, Kusumi T, Nishino T, "Specificity analysis and mechanism of aurone synthesis catalyzed by aureusidin synthase, a polyphe-nol oxidase homolog responsible for flower coloration" *FEBS Letters* **499** 107-111 (2001)

037 Nishitani C, Demura T, Fukuda H, "Primary phloem-specific expression of a *Zinnia elegans* homeobox gene" *Plant Cell Physiology* **42** 1210-1218 (2001)

038 Noji M, Takagi Y, Kimura N, Inoue K, Saito M, Horikoshi M, Saito F, Takahashi H, Saito K, "Serine acetyltransferase in-volved in cysteine biosynthesis from spinach: Molecular clon-ing, characterization and expression analysis of cDNA encod-ing a plastidic isoform" *Plant Cell Physiology* **42** 627-634 (2001)

039 Nomura T, Sato T, Bishop G, Kamiya Y, Takatsuto S, Yokota T, "Accumulation of 6-deoxocathasterone and 6-deoxo-castasterone in *Arabidopsis*, pea and tomato is suggestive of common rate-limiting steps in brassinosteroid biosynthesis" *Phytochemistry* **57** 171-178 (2001)

040 Obara K, Kuriyama H, Fukuda H, "Direct evidence of active and rapid nuclear degradation triggered by vacuole rupture during programmed cell death in zinnia" *Plant Physiology* **125** 615-626 (2001)

041 Obara M, Kajiura M, Fukuta Y, Yano M, Hayashi M, Yamaya T, Sato T, "Mapping of QTLs associated with cytosolic glutamine synthetase and NADH - glutamate synthase in rice (*Oryza sa-tiva* L.)" *Journal of Experimental Botany* **52** 1209-1217 (2001)

042 Oikawa H, Toyomasu T, Toshima H, Ohashi S, Kawaide H, Ka-miya Y, Ohtsuka M, Shinoda S, Mitsuhashi W, Sassa T, "Cloning and functional expression of cDNA encoding aphidicolan-16 β-ol synthase: A key enzyme responsible for formation of an unusual diterpene skeleton in biosynthesis of aphidicolin" *Journal of the American Chemical Society* **123** 5154-5155 (2001)

043 Ozaki T, Ambe S, Minai Y, Enomoto S, Yatagai F, Abe T, Yo-shida S, Makide Y, "Effects of ionic valency of interacting metal elements in ion uptake by carrot (*Daucus carota* cv. U.S. harumakigosun)" *Biological Trace Element Research* **84** 197-211 (2001)

044 Saijo Y, Kinoshita N, Ishiyama K, Hata S, Kyozen J, Hayakawa T, Nakamura T, Shimamoto K, Yamaya T, Izui K, "A Ca²⁺-de-pendent protein kinase that endows rice plants with cold- and salt-stress tolerance functions in vascular bundles" *Plant Cell Physiology* **42** 1228-1233 (2001)

045 Saikawa Y, Okamoto H, Inui T, Makabe M, Okuno T, Suda T, Hashimoto K, Nakata M, "Toxic principles of a poisonous mushroom *Podostroma cornu-damae*" *Tetrahedron* **57** 8277-8281 (2001)

046 Sakai T, Kagawa T, Kasahara M, Swartz T, Christie J, Briggs W, Wada M, Okada K, "*Arabidopsis* nph1 and npl1: Blue light receptors that mediate both phototropism and chloroplast relocation" *Proceedings of the National Academy of Sciences of the United States of America* **98** 6969-6974 (2001)

047 Sakurai N, Katayama Y, Yamaya T, "Overlapping expression of cytosolic glutamine synthetase and phenylalanine ammonia-lyase in immature leaf blades of rice" *Physiologia Plantarum* **113** 400-408 (2001)

048 Shimada Y, Fujioka S, Miyauchi N, Kushiro M, Takatsuto S, Nomura T, Yokota T, Kamiya Y, Bishop G, Yoshida S, "Brassi-nosteroid-6-oxidases from Arabidopsis and tomato catalyze multiple C-6 oxidations in brassinosteroid biosynthesis" *Plant Physiology* **126** 770-779 (2001)

049 Shimada Y, Ohbayashi M, Nakano-Shimada R, Okinaka Y, Ki-yokawa S, Kikuchi Y, "Genetic engineering of the anthocyanin biosynthetic pathway with flavonoid-3',5'-hydroxylase: spe-cific switching of the pathway in petunia" *Plant Cell Reports* **20** 450-462 (2001)

050 Silverstone A, Jung H, Dill A, Kawaide H, Kamiya Y, Sun T, "Re-pressing a repressor: Gibberellin-induced rapid reduction of the RGA protein in Arabidopsis" *The Plant Cell* **13** 1555-1565 (2001)

051 Someya N, Nakajima M, Hirayae K, Hibi T, Akutsu K, "Synergis-tic antifungal activity of chitinolytic enzymes and prodigiosin produced by biocontrol bacterium, *Serratia marcescens* strain B2 against gray mold pathogen, *Botrytis cinerea*" *Journal of General Plant Pathology* **67** 312-317 (2001)

052 Suzuki H, Nakayama T, Sakakibara K, Fukui Y, Nakamura N, Nakao M, Tanaka Y, Yamaguchi M, Kusumi T, Nishino T, "Mal-onyl-CoA:Anthocyanin 5-O-glucoside-6'''-O-malonyltransfer-

ase from scarlet sage (*Salvia splendens*) flowers" *The Journal of Biological Chemistry* **276** 49013-49019 (2001)

053 Takahashi H, Braby C, Grossman A, "Sulfur economy and cell wall biosynthesis during sulfur limitation of *Chlamydomonas reinhardtii*" *Plant Physiology* **127** 665-673 (2001)

054 Takei K, Sakakibara H, Sugiyama T, "Identification of genes encoding adenylate isopentenyltransferase, a cytokinin biosynthesis enzyme, in *Arabidopsis thaliana*" *The Journal of Biological Chemistry* **276** 26405-26410 (2001)

055 Takei K, Sakakibara H, Tanigutchi M, Sugiyama T, "Nitrogen-dependent accumulation of cytokinins in root and the translocation to leaf: Implication of cytokinin species that induces gene expression of maize response regulator" *Plant and Cell Physiology* **42** 85-93 (2001)

056 Tobin A, Yamaya T, "Cellular compartmentation of ammonium assimilation in rice and barley" *Journal of Experimental Botany* **52** 591-604 (2001)

057 Yamada H, Suzuki T, Terada K, Takei K, Ishikawa K, Miwa K, Yamashino T, Mizuno T, "The Arabidopsis AHK4 histidine kinase is a cytokinin-binding receptor that transduces cytokinin signals across the membrane" *Plant and Cell Physiology* **42** 1017-1023 (2001)

058 Yamaguchi S, Kamiya Y, Sun T, "Distinct cell-specific expression patterns of early and late gibberellin biosynthetic genes during *Arabidopsis* seed germination" *The Plant Journal* **28** 443-453 (2001)

059 Yamaguchi T, Fukada-Tanaka S, Inagaki Y, Saito N, Sakakibara K, Tanaka Y, Kusumi T, Iida S, "Genes encoding the vacuolar Na⁺/H⁺ exchanger and flower coloration" *Plant Cell Physiology* **42** 451-461 (2001)

060 Yamamoto R, Fujioka S, Demura T, Takatsuto S, Yoshida S, Fukuda H, "Brassinosteroid levels increase drastically prior to morphogenesis of tracheary elements" *Plant Physiology* **125** 556-563 (2001)

061 Ambe S, Sekido S, Ozaki T, Yamaguchi I, "Uptake of trace elements by rice plants inoculated with *Pyricularia oryzae*" *Applied Radiation and Isotopes* **56** 473-476 (2002)

062 Asahina M, Iwai H, Kikuchi A, Yamaguchi S, Kamiya Y, Kamada H, Satoh S, "Gibberellin produced in the cotyledon is required for cell division during tissue reunion in the cortex of cut cucumber and tomato hypocotyls" *Plant Physiology* **129** 201-210 (2002)

063 Cheng W, Endo A, Zhou L, Penney J, Chen H, Arroyo A, Leon P, Nambara E, Asami T, Seo M, Koshiba T, Sheen J, "A unique short-chain dehydrogenase/reductase in *Arabidopsis* glucose signaling and abscisic acid biosynthesis and functions" *The Plant Cell* **14** 2723-2743 (2002)

064 Deji A, Sakakibara H, Okumura S, Matsuda T, Ishida Y, Yamada S, Komari T, Kubo T, Yamaya T, Sugiyama T, "Accumulation of maize response regulator proteins in mesophyll cells after cytokinin treatment" *Bioscience Biotechnology and Biochemistry* **66** 1853-1858 (2002)

065 Demura T, Tashiro G, Horiguchi G, Kishimoto N, Kubo M, Matsuoka N, Minami A, Nagata-Hiwatashi M, Nakamura K, Okamura Y, Sassa N, Suzuki S, Yazaki J, Kikuchi S, Fukuda H, "Visualization by comprehensive microarray analysis of gene expression programs during transdifferentiation of mesophyll cells into xylem cells" *Proceedings of the National Academy of Sciences of the United States of America* **99** 15794-15799 (2002)

066 Endo M, Matsubara H, Kokubun T, Masuko H, Takahata Y, Tsuchiya T, Fukuda H, Demura T, Watanabe M, "The advantages of cDNA microarray as an effective tool for identification of reproductive organ-specific genes in a model legume, *Lotus japonicus*" *FEBS Letters* **514** 229-237 (2002)

067 Goda H, Shimada Y, Asami T, Fujioka S, Yoshida S, "Microarray analysis of brassinosteroid-regulated genes in *Arabidopsis*" *Plant Physiology* **130** 1319-1334 (2002)

068 Hashimoto K, Matsumoto T, Nakamura K, Ohwada S, Ohuchi T, Horikawa M, Konno K, Shirahama H, "Molecular orbital calculation for the model compounds of kainoid amino acids, agonists of excitatory amino acid receptors. Does the kainoid C4-substituent directly interact with the receptors?" *Bioorganic & Medicinal Chemistry* **10** 1373-1379 (2002)

069 Hatakeyama T, Matsuo N, Aoyagi H, Sugawara H, Uchida T, Kurisu G, Kusunoki M, "Crystallization and preliminary crystallographic study of an invertebrate C-type lectin, CEL-I, from the marine invertebrate *Cucumaria echinata*" *Acta Crystallographica Section D* **58** 143-144 (2002)

070 Hatakeyama T, Matsuo N, Shiba K, Nishinohara S, Yamasaki N, Sugawara H, Aoyagi H, "Amino acid sequence and carbohydrate-binding analysis of the *N*-acetyl-D-galactosamine-specific C-type lectin, CEL-I, from the holothuroidea, *Cucumaria echinata*" *Bioscience Biotechnology and Biochemistry* **66** 157-163 (2002)

071 Hayashi M, Nito K, Takei-Hoshi R, Yagi M, Kondo M, Suenaga A, Yamaya T, Nishimura M, "Ped3p is a peroxisomal ATP-binding cassette transporter that might supply substrates for fatty acid β -oxidation" *Plant Cell Physiology* **43** 1-11 (2002)

072 Higashibayashi S, Hashimoto K, Nakata M, "Synthetic studies on the thiostrepton family of peptide antibiotics: synthesis of the tetrasubstituted dehydropiperidine and piperidine cores" *Tetrahedron Letters* **43** 105-110 (2002)

073 Higashibayashi S, Mori T, Shinko K, Hashimoto K, Nakata M, "Synthetic studies on thiostrepton family of peptide antibiotics: Synthesis of the tetrasubstituted dihydroquinoline portion of siomycin D₁" *Heterocycles* **57** 111-122 (2002)

074 Ito J, Fukuda H, "ZEN1 is a key enzyme in the degradation of nuclear DNA during programmed cell death of tracheary elements" *The Plant Cell* **14** 3201-3211 (2002)

075 Kamabe M, Miyazaki T, Hashimoto K, Shirahama H, "Formal synthesis of FPA, a kainoid amino acid, via ketyl radical cyclization" *Heterocycles* **56** 105-111 (2002)

076 Kang H, Jun S, Kim J, Kawaide H, Kamiya Y, An G, "Cloning of gibberellin 3 β -hydroxylase cDNA and analysis of endogenous gibberellins in the developing seeds in watermelon" *Plant Cell Physiology* **43** 152-158 (2002)

077 Kasahara H, Hanada A, Kuzuyama T, Takagi M, Kamiya Y, Yamaguchi S, "Contribution of the mevalonate and methylerythritol phosphate pathways to the biosynthesis of gibberellins in *Arabidopsis*" *The Journal of Biological Chemistry* **277** 45188-45194 (2002)

078 Kim H, Min J, Choi G, Kim J, Kim B, Chung B, Kim B, Kim Y, Yamaguchi I, Cho K, "Synthesis of a new 1,2,4-oxadiazol-5-one derivative, KC10017, and its controlling activity against rice blast disease caused by *Magnaporthe grisea*" *Journal of Pesticide Science* **27** 229-234 (2002)

079 Kimura M, Furuichi M, Yamamoto M, Kumasaka T, Mizuno H, Miyano M, Yamaguchi I, "The flexible C-terminal region of *Aspergillus terreus* blasticidin S deaminase: Identification of its functional roles with deletion enzymes" *Biochemical and Biophysical Research Communications* **290** 421-426 (2002)

080 Kuriyama H, Fukuda H, "Developmental programmed cell death in plants" *Current Opinion in Plant Biology* **5** 568-573 (2002)

081 Makizumi Y, Takeda S, Matsuzaki Y, Nakaune R, Hamamoto H, Akutsu K, Hibi T, "Cloning and selective toxicant-induced expression of *BMR1* and *BMR3*, novel ABC transporter genes in *Botrytis cinerea*" *Journal of General Plant Pathology* **68** 338-341 (2002)

082 Motoyama T, Nakasako M, Yamaguchi I, "Crystallization of scytalone dehydratase F162A mutant in the unligated state and a preliminary X-ray diffraction study at 37 K" *Acta Crystallographica Section D* **58** 148-150 (2002)

083 Nagata N, Suzuki M, Yoshida S, Muranaka T, "Mevalonic acid partially restores chloroplast and etioplast development in *Arabidopsis* lacking the non-mevalonate pathway" *Planta* **216** 345-350 (2002)

084 Nakanomyo I, Kost B, Chua N, Fukuda H, "Preferential and asymmetrical accumulation of a Rac small GTPase mRNA in differentiating xylem cells of *Zinnia elegans*" *Plant Cell Physiology* **43** 1484-1492 (2002)

085 Nakaune R, Hamamoto H, Imada J, Akutsu K, Hibi T, "A novel ABC transporter gene, *PMR5*, is involved in multidrug resistance in the phytopathogenic fungus *Penicillium digitatum*" *Molecular Genetics and Genomics* **267** 179-185 (2002)

086 Nambara E, Suzuki M, Abrams S, McCarty D, Kamiya Y, McCourt P, "A screen for genes that function in abscisic acid signaling in *Arabidopsis thaliana*" *Genetics* **161** 1247-1255 (2002)

087 Nishitani C, Demura T, Fukuda H, "Analysis of early processes in wound-induced vascular regeneration using *Ted3* and *ZeHB3* as molecular markers" *Plant Cell Physiology* **43** 79-90 (2002)

088 Ochiai N, Fujimura M, Oshima M, Motoyama T, Ichiishi A, Yamada-Okabe H, Yamaguchi I, "Effects of iprodione and fludioxonil on glycerol synthesis and hyphal development in *Candida albicans*" *Bioscience Biotechnology and Biochemistry* **66** 2209-2215 (2002)

089 Ohashi-Ito K, Demura T, Fukuda H, "Promotion of transcript accumulation of novel *Zinnia* immature xylem-specific HD-Zip III homeobox genes by brassinosteroids" *Plant Cell Physiology* **43** 1146-1153 (2002)

090 Ohkama N, Takei K, Sakakibara H, Hayashi H, Yoneyama T, Fujiwara T, "Regulation of sulfur-responsive gene expression by exogenously applied cytokinins in *Arabidopsis thaliana*" *Plant Cell Physiology* **43** 1493-1501 (2002)

091 Okada K, Kawaide H, Kuzuyama T, Seto H, Curtis I, Kamiya Y, "Antisense and chemical suppression of the nonmevalonate pathway affects *ent*-kaurene biosynthesis in *Arabidopsis*" *Planta* **215** 339-344 (2002)

092 Okano Y, Mizohata E, Xie Y, Matsumura H, Sugawara H, Inoue T, Yokota A, Kai Y, "X-ray structure of *Galdieria* Rubisco complexed with one sulfate ion per active site" *FEBS Letters* **527** 33-36 (2002)

093 Oshima M, Fujimura M, Banno S, Hashimoto C, Motoyama T, Ichiishi A, Yamaguchi I, "A point mutation in the two-component histidine kinase *BcOS-1* gene confers dicarboximide resistance in field isolates of *Botrytis cinerea*" *Phytopathology* **92** 75-80 (2002)

094 Putalun W, Tanaka H, Muranaka T, Shoyama Y, "Determination of aculeatisides based on immunoassay using a polyclonal antibody against aculeatiside A" *Analyst* **127** 1328-1332 (2002)

095 Saito C, Nagata N, Sakai A, Mori K, Kuroiwa H, Kuroiwa T, "Angiosperm species that produce sperm cell pairs or generative cells with polarized distribution of DNA-containing organelles" *Sexual Plant Reproduction* **15** 167-178 (2002)

096 Sakakibara H, Takei K, "Identification of cytokinin biosynthesis genes in *Arabidopsis*: A breakthrough for understanding the metabolic pathway and the regulation in higher plants" *Journal of Plant Growth Regulation* **21** 17-23 (2002)

097 Sang S, Lao A, Leng Y, Cao L, Chen Z, Uzawa J, Yoshida S, Fujimoto Y, "Segetoside F a new triterpenoid saponin with inhibition of luteal cell from the seeds of *Vaccaria segetalis*" *Journal of Asian Natural Products Research* **4** 297-301 (2002)

098 Sawa S, Ohgishi M, Goda H, Higuchi K, Shimada Y, Yoshida S, Koshiba T, "The *HAT2* gene, a member of the HD-Zip gene family, isolated as an auxin inducible gene by DNA microarray screening, affects auxin response in *Arabidopsis*" *The Plant Journal* **32** 1011-1022 (2002)

099 Schellmann S, Schnittger A, Kirik V, Wada T, Okada K, Beermann A, Thumfahrt J, Jurgens G, Hulskamp M, "*TRIPTYCHON* and *CAPRICE* mediate lateral inhibition during trichome and root hair patterning in *Arabidopsis*" *The EMBO Journal* **21** 5036-5046 (2002)

100 Srivastava H, Shankar N, Yamaya T, "Role and regulation of glutamate synthases in higher plants" *Physiology and Molecular Biology of Plants* **8** 39-60 (2002)

101 Sugiharto B, Ermawati N, Mori H, Aoki K, Sakakibara K, Yamaya T, Sugiyama T, Sakakibara H, "Identification and characterization of a gene encoding drought-inducible protein localizing in the bundle sheath cell of sugarcane" *Plant Cell Physiology* **43** 350-354 (2002)

102 Suzuki H, Nakayama T, Sakakibara K, Fukui Y, Nakamura N, Yamaguchi M, Tanaka Y, Kusumi T, Nishino T, "cDNA cloning, heterologous expressions, and functional characterization of malonyl-coenzyme A:Anthocyanidin 3-O-Glucoside-6"-O-malonyltransferase from dahlia flowers" *Plant Physiology* **130** 2142-2151 (2002)

103 Suzuki M, Kato A, Nagata N, Komeda Y, "A xylanase, AtXyn1, is predominantly expressed in vascular bundles, and four putative xylanase genes were identified in the *Arabidopsis thaliana* genome" *Plant Cell Physiology* **43** 759-767 (2002)

104 Suzuki Y, Kurano M, Arai Y, Nakashita H, Doi Y, Usami R, Horikoshi K, Yamaguchi I, "Enzyme inhibitors to increase poly-3-hydroxybutyrate production by transgenic tobacco" *Bioscience Biotechnology and Biochemistry* **66** 2537-2542 (2002)

105 Takahashi-Ando N, Kimura M, Takeya H, Osada H, Yamaguchi I, "A novel lactonohydrolase responsible for the detoxification of zearalenone: enzyme purification and gene cloning" *Biochemical Journal* **365** 1-6 (2002)

106 Takei K, Takahashi T, Sugiyama T, Yamaya T, Sakakibara H, "Multiple routes communicating nitrogen availability from roots to shoots: a signal transduction pathway mediated by cytokinin" *Journal of Experimental Botany* **53** 971-977 (2002)

107 Tamura K, Imamura M, Yoneyama K, Kohno Y, Takikawa Y, Yamaguchi I, Takahashi H, "Role of phaseolotoxin production by *Pseudomonas syringae* pv. *actinidiae* in the formation of halo lesions of kiwifruit canker disease" *Physiological and Molecular Plant Pathology* **60** 207-214 (2002)

108 Wada T, Kurata T, Tominaga R, Kimura Y, Tachibana T, Goto K, Marks M, Shimura Y, Okada K, "Role of a positive regulator of root hair development, *CAPRICE*, in *Arabidopsis* root epidermal cell differentiation" *Development* **129** 5409-5419 (2002)

109 Yamaguchi S, Kamiya Y, "Gibberellins and light-stimulated seed germination" *Journal of Plant Growth Regulation* **20** 369-376 (2002)

110 Yamaya T, Obara M, Nakajima H, Sasaki S, Hayakawa T, Sato T, "Genetic manipulation and quantitative-trait loci mapping for nitrogen recycling in rice" *Journal of Experimental Botany* **53** 917-925 (2002)

111 Yoshimoto N, Takahashi H, Smith F, Yamaya T, Saito K, "Two distinct high-affinity sulfate transporters with different inducibilities mediate uptake of sulfate in *Arabidopsis* roots" *The Plant Journal* **29** 465-473 (2002)

112 Yuasa K, Maeshima M, "Equilibrium dialysis measurements of the Ca²⁺-binding properties of recombinant radish vacuolar Ca²⁺-binding protein expressed in *Escherichia coli*" *Bioscience Biotechnology and Biochemistry* **66** 2382-2387 (2002)

113 Asakura Y, Hagino T, Ohta Y, Aoki K, Sakakibara K, Deji A, Yamaya T, Sugiyama T, Sakakibara H, "Molecular characterization of His-Asp phosphorelay signaling factors in maize leaves: Implications of the signal divergence by cytokinin-inducible response regulators in the cytosol and the nuclei" *Plant Molecular Biology* **52** 331-341 (2003)

114 Banno S, Kimura M, Tokai T, Kasahara S, Higa-Nishiyama A, Takahashi-Ando N, Hamamoto H, Fujimura M, Staskawicz B, Yamaguchi I, "Cloning and characterization of genes specifically expressed during infection stages in the rice blast fungus" *FEMS Microbiology Letters* **222** 221-227 (2003)

115 Delhaize E, Kataoka T, Hebb D, White R, Ryan P, "Genes encoding proteins of the cation diffusion facilitator family that confer manganese tolerance" *The Plant Cell* **15** 1131-1142 (2003)

116 Fleet C, Yamaguchi S, Hanada A, Kawaide H, David C, Kamiya Y, Sun T, "Overexpression of *AtCPS* and *AtKS* in *Arabidopsis* confers increased *ent*-kaurene production but no increase in bioactive gibberellins" *Plant Physiology* **132** 830-839 (2003)

117 Fujimura M, Ochiai N, Oshima M, Motoyama T, Ichiishi A, Usami R, Horikoshi K, Yamaguchi I, "Putative homologs of SSK22 MAPKK kinase and PBS2 MAPK kinase of *Saccharomyces cerevisiae* encoded by *os-4* and *os-5* genes for osmotic sensitivity and fungicide resistance in *Neurospora crassa*" *Bioscience Biotechnology and Biochemistry* **67** 186-191 (2003)

118 Gawronska H, Deji A, Sakakibara H, Sugiyama T, "Hormone-mediated nitrogen signaling in plants: implication of participation of abscissic acid in negative regulation of cytokinin-inducible expression of maize response regulator" *Plant Physiology and Biochemistry* **41** 605-610 (2003)

119 Hamada S, Ishiyama K, Choi S, Wang C, Singh S, Kawai N, Franceschi V, Okita T, "The transport of prolamine RNAs to prolamine protein bodies in living rice endosperm cells" *The Plant Cell* **15** 2253-2264 (2003)

120 Hamada S, Ishiyama K, Sakulsingharoj C, Choi S, Wu Y, Wang C, Singh S, Kawai N, Messing J, Okita T, "Dual regulated RNA transport pathways to the cortical region in developing rice endosperm" *The Plant Cell* **15** 2265-2272 (2003)

121 Harada A, Sakai T, Okada K, "Phot1 and phot2 mediate blue light-induced transient increases in cytosolic Ca²⁺ differently in *Arabidopsis* leaves" *Proceedings of the National Academy of Sciences of the United States of America* **100** 8583-8588 (2003)

122 Hayakawa T, Sakai T, Ishiyama K, Hirose N, Nakajima H, Takezawa M, Naito K, Hino-Nakayama M, Akagawa T, Goto S, Yamaya T, "Organization and structure of ferredoxin-dependent glutamate synthase gene and intracellular localization of the enzyme protein in rice plants" *Plant Biotechnology* **20** 43-55 (2003)

123 Higa A, Kimura M, Mimori K, Ochiai-Fukuda T, Tokai T, Takahashi-Ando N, Nishiuchi T, Igawa T, Fujimura M, Hamamoto H, Usami R, Yamaguchi I, "Expression in cereal plants of genes that inactivate *Fusarium* Mycotoxins" *Bioscience Biotechnology and Biochemistry* **67** 914-918 (2003)

124 Ishiyama K, Kojima S, Takahashi H, Hayakawa T, Yamaya T, "Cell type distinct accumulations of mRNA and protein for NADH-dependent glutamate synthase in rice roots in response to the supply of NH₄⁺" *Plant Physiology and Biochemistry* **41** 643-647 (2003)

125 Kimura M, Tokai T, Matsumoto G, Fujimura M, Hamamoto H, Yoneyama K, Shibata T, Yamaguchi I, "Trichothecene non-producer *Gibberella* species have both functional and non-functional 3-O-acetyltransferase genes" *Genetics* **163** 677-684 (2003)

126 Kimura M, Tokai T, O'Donnell K, Ward T, Fujimura M, Hamamoto H, Shibata T, Yamaguchi I, "The trichothecene biosynthesis gene cluster of *Fusarium graminearum* F15 contains a limited number of essential pathway genes and expressed non-essential genes" *FEBS Letters* **539** 105-110 (2003)

127 Kurata T, Awai C, Sakuradani E, Shimizu S, Okada K, Wada T, "The *YORE-YORE* gene regulates multiple aspects of epidermal cell differentiation in *Arabidopsis*" *The Plant Journal* **36**

55-66 (2003)

128 Kushiro T, Nambara E, McCourt P, "Hormone evolution: The key to signalling" *Nature* **422** 12298 (2003)

129 Lee J, Takei K, Sakakibara H, Cho H, Kim D, Kim Y, Min S, Kim W, Sohn D, Lim Y, Pai H, "CHRK1, a chitinase-related receptor-like kinase, plays a role in plant development and cytokinin homeostasis in tobacco" *Plant Molecular Biology* **53** 877-890 (2003)

130 Maruyama-Nakashita A, Inoue E, Takahashi A, Yamaya T, Takahashi H, "Transcriptome profiling of sulfur-responsive genes in *Arabidopsis* reveals global effects of sulfur nutrition on multiple metabolic pathways" *Plant Physiology* **132** 597-605 (2003)

131 Mitsuhashi W, Toyomasu T, Masui H, Katoh T, Nakaminami K, Kashiwagi Y, Akutsu M, Kenmoku H, Sassa T, Yamaguchi S, Kamiya Y, Kamada H, "Gibberellin is essentially required for carrot (*Daucus carota* L.) somatic embryogenesis: Dynamic regulation of gibberellin 3-oxidase gene expressions" *Bioscience Biotechnology and Biochemistry* **67** 2438-2447 (2003)

132 Nakaminami K, Sawada Y, Suzuki M, Kenmoku H, Kawaide H, Mitsuhashi W, Sassa T, Inoue Y, Kamiya Y, Toyomasu T, "Deactivation of gibberellin by 2-oxidation during germination of photoblastic lettuce seeds" *Bioscience Biotechnology and Biochemistry* **67** 1551-1558 (2003)

133 Nakamura A, Higuchi K, Goda H, Fujiwara M, Sawa S, Koshiha T, Shimada Y, Yoshida S, "Brassinolide induces *IAA5*, *IAA19*, and *DR5*, a synthetic auxin response element in *Arabidopsis*, implying a cross talk point of brassinosteroid and auxin signaling" *Plant Physiology* **133** 1843-1853 (2003)

134 Nakamura A, Shimada Y, Goda H, Fujiwara M, Asami T, Yoshida S, "AXR1 is involved in BR-mediated elongation and *SAUR-AC1* gene expression *Arabidopsis*" *FEBS Letters* **553** 28-32 (2003)

135 Nakamura T, Motoyama T, Hirokawa T, Hirono S, Yamaguchi I, "Computer-aided modeling of pentachlorophenol 4-monooxygenase and site-directed mutagenesis of its active site" *Chemical and Pharmaceutical Bulletin* **51** 1293-1298 (2003)

136 Nambara E, Marion-Poll A, "ABA action and interactions in seeds" *Trends in Plant Science* **8** 213-217 (2003)

137 Nishimura T, Yokota E, Wada T, Shimmen T, Okada K, "An *Arabidopsis* *ACT2* dominant-negative mutation, which disturbs F-actin polymerization, reveals its distinctive function in root development" *Plant Cell Physiology* **44** 1131-1140 (2003)

138 Nishioka M, Nakashita H, Suzuki H, Akiyama S, Yoshida S, Yamaguchi I, "Induction of resistance against rice blast disease by a novel class of plant activator, pyrazolecarboxylic acid derivatives" *Journal of Pesticide Science* **28** 416-421 (2003)

139 Nomura T, Bishop G, Kaneta T, Reid J, Chory J, Yokota T, "The *LKA* gene is a *BRASSINOSTEROID INSENSITIVE 1* homolog of pea" *The Plant Journal* **36** 291-300 (2003)

140 Ogawa M, Hanada A, Yamauchi Y, Kuwahara A, Kamiya Y, Yamaguchi S, "Gibberellin biosynthesis and response during *Arabidopsis* seed germination" *The Plant Cell* **15** 1591-1604 (2003)

141 Okinaka Y, Shimada Y, Nakano-Shimada R, Ohbayashi M, Kiyokawa S, Kikuchi Y, "Selective accumulation of delphinidin derivatives in tobacco using a putative flavonoid 3',5'-hydroxylase cDNA from *Campanula medium*" *Bioscience Biotechnology and Biochemistry* **67** 161-165 (2003)

142 Sakakibara H, "Differential response of genes for ferredoxin and ferredoxin:NADP⁺ oxidoreductase to nitrate and light in maize leaves" *Journal of Plant Physiology* **160** 65-70 (2003)

143 Sakakibara H, "Nitrate-specific and cytokinin-mediated nitrogen signaling pathways in plants" *Journal of Plant Research* **116** 253-257 (2003)

144 Sang S, Xia Z, Lao A, Cao L, Chen Z, Uzawa J, Fujimoto Y, "Studies on the constituents of the seeds of *Vaccaria segetalis*" *Heterocycles* **59** 811-821 (2003)

145 Shimada Y, Goda H, Nakamura A, Suguru T, Fujioka S, Yoshida S, "Organ-specific expression of brassinosteroid-biosynthetic genes and distribution of endogenous brassinosteroids in *Arabidopsis*" *Plant Physiology* **131** 287-297 (2003)

146 Someya N, Nakajima M, Watanabe K, Hibi T, Akutsu K, "Influence of bacteria isolated from rice plants and rhizospheres on antibiotic production by the antagonistic bacterium *Serratia marcescens* strain B2" *Journal of General Plant Pathology* **69** 342-347 (2003)

147 Someya N, Numata S, Nakajima M, Hasebe A, Hibi T, Akutsu K, "Biological control of rice blast by the epiphytic bacterium *Erwinia ananas* transformed with a chitinolytic enzyme gene from an antagonistic bacterium, *Serratia marcescens* strain B2" *Journal of General Plant Pathology* **69** 276-282 (2003)

148 Sonoda Y, Ikeda A, Saiki S, Von W, Yamaya T, Yamaguchi J, "Distinct expression and function of three ammonium transporter genes (*OsAMT1;1-1;3*) in rice" *Plant Cell Physiology* **44** 726-734 (2003)

149 Sonoda Y, Ikeda A, Satomi S, Yamaya T, Yamaguchi J, "Feedback regulation of the ammonium Transporter gene family *AMT1* by glutamine in rice" *Plant Cell Physiology* **44** 1396-1402 (2003)

150 Suenaga A, Moriya K, Sonoda Y, Ikeda A, Wiren N, Hayakawa T, Yamaguchi J, Yamaya T, "Constitutive expression of a novel-type ammonium transporter *OsAMT2* in rice plants" *Plant Cell Physiology* **44** 206-211 (2003)

151 Takei K, Dekishima Y, Eguchi T, Yamaya T, Sakakibara H, "A new method for enzymatic preparation of isopentenyladenine-type and *trans*-zeatin-type cytokinins with radioisotope-labeling" *Journal of Plant Research* **116** 259-263 (2003)

152 Takei K, Yamaya T, Sakakibara H, "A method for separation and determination of cytokinin nucleotides from plant tissues" *Journal of Plant Research* **116** 265-269 (2003)

153 Woo S, Kimura M, Nishiyama A, Dohmae N, Hamamoto H, Seung-Keun J, Yamaguchi I, "Proteome analysis of wheat lemma" *Bioscience Biotechnology and Biochemistry* **67** 2486-2491 (2003)

154 Yamaguchi M, Kato H, Yoshida S, Yamamura S, Uchimiya H, Umeda M, "Control of *in vitro* organogenesis by cyclin-dependent kinase activities in plants" *Proceedings of the National*

Academy of Sciences of the United States of America **100** 8019-8023 (2003)

155 Yoshimoto N, Inoue E, Saito K, Yamaya T, Takahashi H, "Phloem-localizing sulfate transporter, Sultr1;3, mediates re-distribution of sulfur from source to sink organs in Arabidopsis" *Plant Physiology* **131** 1511-1517 (2003)

156 Arai Y, Shikanai T, Doi Y, Yoshida S, Yamaguchi I, Nakashita H, "Production of polyhydroxybutyrate by polycistronic expression of bacterial genes in tobacco plastid" *Plant Cell Physiology* **45** 1176-1184 (2004)

157 Buchner P, Takahashi H, Hawkesford M, "Plant sulphate transporters: co-ordination of uptake, intracellular and long-distance transport" *Journal of Experimental Botany* **55** 1765-1773 (2004)

158 Endo M, Tsuchiya T, Saito H, Matsubara H, Hakozaiki H, Masuko H, Kamada M, Higashitani A, Takahashi H, Fukuda H, Demura T, Watanabe M, "Identification and molecular characterization of novel anther-specific genes in *Oryza sativa* L. by using cDNA microarray" *Genes and Genetic Systems* **79** 213-226 (2004)

159 Fujiwara M, Nakamura A, Ito R, Shimada Y, Yoshida S, Moller S, "Chloroplast division site placement requires dimerization of the ARC11/AtMinD1 protein in *Arabidopsis*" *Journal of Cell Science* **117** 2399-2410 (2004)

160 Galis I, Kakiuchi Y, Simek P, Wabiko H, "*Agrobacterium tumefaciens* AK-6*b* gene modulates phenolic compound metabolism in tobacco" *Phytochemistry* **65** 169-179 (2004)

161 Galis I, Smith J, Jameson P, "Salicylic acid-, but not cytokinin-induced, resistance to WCIMV is associated with increased expression of SA-dependent resistance genes in *Phaseolus vulgaris*" *Journal of Plant Physiology* **161** 459-466 (2004)

162 Gazzarrini S, Tsuchiya Y, Lumba S, Okamoto M, McCourt P, "The Transcription Factor *FUSCA3* Controls Developmental Timing in *Arabidopsis* through the Hormones Gibberellin and Absciscic Acid" *Developmental Cell* **7** 373-385 (2004)

163 Goda H, Sawa S, Asami T, Fujioka S, Shimada Y, Yoshida S, "Comprehensive comparison of Auxin-regulated and Brassinosteroid-regulated genes in Arabidopsis" *Plant Physiology* **134** 1555-1573 (2004)

164 Goda H, Shimada Y, Fujioka S, Yoshida S, "Classification of brassinosteroid-regulated genes based on expression profiles in *br1* and in response to a protein kinase inhibitor, staurosporin" *Bioscience Biotechnology and Biochemistry* **68** 1605-1607 (2004)

165 Gonai T, Kawahara S, Tougou M, Satoh S, Hashiba T, Hirai N, Kawaide H, Kamiya Y, Yoshioka T, "Absciscic acid in the thermoinhibition of lettuce seed germination and enhancement of its catabolism by gibberellin" *Journal of Experimental Botany* **55** 111-118 (2004)

166 Hatakeyama T, Shiba K, Matsuo N, Fujimoto T, Oda T, Sugawara H, Aoyagi H, "Characterization of recombinant CEL-I, a GalNAc-specific C-type Lectin, expressed in *Escherichia coli* using an artificial synthetic gene" *Journal of Biochemistry* **135** 101-107 (2004)

167 Igawa T, Ochiai-Fukuda T, Takahashi-Ando N, Ohsato S, Shibata T, Yamaguchi I, Kimura M, "New TAXI-type xylanase inhibitor genes are inducible by pathogens and wounding in hexaploid wheat" *Plant Cell Physiology* **45** 1347-1360 (2004)

168 Inada-Tominaga S, Ohgishi M, Mayama T, Okada K, Sakai T, "RPT2 is a signal transducer involved in phototropic response and stomatal opening by association with phototropin 1 in *Arabidopsis thaliana*" *The Plant Cell* **16** 887-896 (2004)

169 Ishiyama K, Inoue E, Tabuchi M, Yamaya T, Takahashi H, "Biochemical background and compartmentalized functions of cytosolic glutamine synthetase for active ammonium assimilation in rice roots" *Plant Cell Physiology* **45** 1640-1647 (2004)

170 Ishiyama K, Inoue E, Takahashi A, Obara M, Yamaya T, Takahashi H, "Kinetic properties and ammonium-dependent regulation of cytosolic isoenzymes of glutamine synthetase in *Arabidopsis*" *The Journal of Biological Chemistry* **279** 16598-16605 (2004)

171 Kasahara H, Takei K, Ueda N, Hishiyama S, Yamaya T, Kamiya Y, Yamaguchi S, Sakakibara H, "Distinct isoprenoid origins of *cis* - and *trans*-Zeatin biosyntheses in *Arabidopsis*" *The Journal of Biological Chemistry* **279** 14049-14054 (2004)

172 Kataoka T, Hayashi N, Yamaya T, Takahashi H, "Root-to-shoot transport of sulfate in Arabidopsis. Evidence for the role of SULTR3;5 as a component of low-affinity sulfate transport system in the root vasculature" *Plant Physiology* **136** 4198-4204 (2004)

173 Kataoka T, Takahashi A, Hayashi N, Ohnishi M, Mimura T, Buchner P, Hawkesford M, Yamaya T, Takahashi H, "Vacuolar sulfate transporters are essential determinants controlling internal distribution of sulfate in Arabidopsis" *The Plant Cell* **16** 2693-2704 (2004)

174 Kawabe M, Mizutani K, Yoshida T, Teraoka T, Yoneyama K, Yamaguchi I, Arie T, "Cloning of the pathogenicity-related gene *FPD1* in *Fusarium oxysporum* f. sp. *lycopersici*" *Journal of General Plant Pathology* **70** 16-20 (2004)

175 Kenmoku H, Tanaka K, Tanaka K, Kato N, Sassa T, "Erinacol (Cyatha-3,12-dien-14β-ol) and 11-O-acetylcyathin A3, new cyathane metabolites from an erinacine Q-producing *Hericium erinaceum*" *Bioscience Biotechnology and Biochemistry* **68** 1786-1789 (2004)

176 Kenmoku H, Tanaka M, Ogiyama K, Kato N, Sassa T, "Identification of (+)-phyllocladene, (-)-sandaracopimaradiene, and (+)-kaurene as new fungal metabolites from fusicoccin-producing *Phomopsis amygdali* F6" *Bioscience Biotechnology and Biochemistry* **68** 1574-1577 (2004)

177 Kiba T, Aoki K, Sakakibara H, Mizuno T, "*Arabidopsis* response regulator, ARR22, ectopic expression of which results in phenotypes similar to the *wol* cytokinin-receptor mutant" *Plant Cell Physiology* **45** 1063-1077 (2004)

178 Koiwai H, Nakaminami K, Seo M, Mitsuhashi W, Toyomasu T, Koshiba T, "Tissue-specific localization of an abscisic acid biosynthetic enzyme, AAO3, in Arabidopsis" *Plant Physiology* **134** 1697-1707 (2004)

179 Kushiro T, Okamoto M, Nakabayashi K, Yamagishi K, Kitamura S, Asami T, Hirai N, Koshiba T, Kamiya Y, Nambara E, "The *Arabidopsis* cytochrome P450 CYP707A encodes ABA 8'-hydroxylases: key enzymes in ABA catabolism" *The EMBO Journal* **23** 1647-1656 (2004)

180 Magome H, Yamaguchi S, Hanada A, Kamiya Y, Oda K, "*dwarf and delayed-flowering 1*, a novel *Arabidopsis* mutant deficient in gibberellin biosynthesis because of overexpression of a putative AP2 transcription factor" *The Plant Journal* **37** 720-729 (2004)

181 Maruyama-Nakashita A, Nakamura Y, Yamaya T, Takahashi H, "A novel regulatory pathway of sulfate uptake in *Arabidopsis* roots: implication of CRE1/WOL/AHK4-mediated cytokinin-dependent regulation" *The Plant Journal* **38** 779-789 (2004)

182 Maruyama-Nakashita A, Nakamura Y, Yamaya T, Takahashi H, "Regulation of high-affinity sulphate transporters in plants: towards systematic analysis of sulphur signalling and regulation" *Journal of Experimental Botany* **55** 1843-1849 (2004)

183 Matsuoka K, Demura T, Galis I, Horiguchi T, Sasaki M, Tashiro G, Fukuda H, "A comprehensive gene expression analysis toward the understanding of growth and differentiation of tobacco BY-2 cells" *Plant Cell Physiology* **45** 1280-1289 (2004)

184 Nakamura A, Goda H, Shimada Y, Yoshida S, "Brassinosteroid selectively regulates *PIN* gene expression in Arabidopsis" *Bioscience Biotechnology and Biochemistry* **68** 952-954 (2004)

185 Nakamura T, Motoyama T, Hirono S, Yamaguchi I, "Identification, characterization, and site-directed mutagenesis of recombinant pentachlorophenol 4-monooxygenase" *Biochimica et Biophysica Acta* **1700** 151-159 (2004)

186 Nakamura T, Motoyama T, Suzuki Y, Yamaguchi I, "Biotransformation of pentachlorophenol by Chinese chive and a recombinant derivative of its rhizosphere-competent microorganism, *Pseudomonas gladioli* M-2196" *Soil Biology & Biochemistry* **36** 787-795 (2004)

187 Nakashita A, Nakamura Y, Takahashi A, Yamaya T, Takahashi H, "Induction of SULTR1;1 sulfate transporter in *Arabidopsis* roots involves protein phosphorylation/dephosphorylation circuit for transcriptional regulation" *Plant Cell Physiology* **45** 340-345 (2004)

188 Narita N, Moore S, Horiguchi G, Kubo M, Demura T, Fukuda H, Goodrich J, Tsukaya H, "Overexpression of a novel small peptide ROTUNDIFOLIA4 decreases cell proliferation and alters leaf shape in *Arabidopsis thaliana*" *The Plant Journal* **38** 699-713 (2004)

189 Nomura T, Jager C, Kitasaka Y, Takeuchi K, Fukami M, Yoneyama K, Matsushita Y, Nyunoya H, Takatsuto S, Fujioka S, Smith J, Kerckhoffs L, Reid J, Yokota T, "Brassinosteroid deficiency due to truncated steroid 5α-reductase causes dwarfism in the *Ik* mutant of pea" *Plant Physiology* **135** 2220-2229 (2004)

190 Obara M, Sato T, Sasaki S, Kashiba K, Nagano A, Nakamura I, Ebitani T, Yano M, Yamaya T, "Identification and characterization of a QTL on chromosome 2 for cytosolic glutamine synthetase content and panicle number in rice" *Theoretical and Applied Genetics* **110** 1-11 (2004)

191 Ohgishi M, Saji K, Okada K, Sakai T, "Functional analysis of each blue light receptor, cry1, cry2, phot1, and phot2, by using combinatorial multiple mutants in *Arabidopsis*" *Proceedings of the National Academy of Sciences of the United States of America* **101** 2223-2228 (2004)

192 Otomo K, Kanno Y, Motegi A, Kenmoku H, Yamane H, Mitsuhashi W, Oikawa H, Toshima H, Itoh H, Matsuoka M, Sassa T, Toyomasu T, "Diterpene cyclases responsible for the biosynthesis of phytoalexins, momilactones A, B, and Oryzaalexins A-F in rice" *Bioscience Biotechnology and Biochemistry* **68** 2001-2006 (2004)

193 Otomo K, Kenmoku H, Oikawa H, Koenig W, Toshima H, Mitsuhashi W, Yamane H, Sassa T, Toyomasu T, "Biological functions of *ent*- and *syn*-copalyl diphosphate synthases in rice: key enzymes for the branch point of gibberellin and phytoalexin biosynthesis" *The Plant Journal* **39** 886-893 (2004)

194 Otsuka M, Kenmoku H, Ogawa M, Okada K, Mitsuhashi W, Sassa T, Kamiya Y, Toyomasu T, Yamaguchi S, "Emission of *ent*-kaurene, a diterpenoid hydrocarbon precursor for gibberellins, into the headspace from plants" *Plant and Cell Physiology* **45** 1129-1138 (2004)

195 Pyo H, Demura T, Fukuda H, "Spatial and temporal tracing of vessel differentiation in young *Arabidopsis* seedlings by the expression of an immature tracheary element-specific promoter" *Plant and Cell Physiology* **45** 1529-1536 (2004)

196 Sakakibara K, Kojima M, Yamaya T, Sakakibara H, "Molecular characterization of cytokinin-responsive histidine kinases in maize. Differential ligand preferences and response to cis-zeatin" *Plant Physiology* **134** 1654-1661 (2004)

197 Seo M, Aoki H, Koiwai H, Kamiya Y, Nambara E, Koshiba T, "Comparative studies on the *Arabidopsis* aldehyde oxidase (AAO) gene family revealed a major role of AAO3 in ABA biosynthesis in seeds" *Plant and Cell Physiology* **45** 1694-1703 (2004)

198 Someya N, Nakajima M, Hamamoto H, Yamaguchi I, Akutsu K, "Effects of light conditions on prodigiosin stability in the biocontrol bacterium *Serratia marcescens* strain B2" *Journal of General Plant Pathology* **70** 367-370 (2004)

199 Someya N, Niinuma K, Kimura M, Yamaguchi I, Hamamoto H, "Pattern of *N* gene-mediated systemic hypersensitive response and turnover of viral replicase proten in tobacco" *Archives of Virology* **149** 2105-2113 (2004)

200 Someya N, Numata S, Nakajima M, Hasebe A, Akutsu K, "Influence of rice-isolated bacteria on chitinase production by the biocontrol bacterium *Serratia marcescens* strain B2 and the genetically modified rice epiphytic bacterium" *Journal of General Plant Pathology* **70** 371-375 (2004)

201 Sugawara H, Kusunoki M, Kurisu G, Fujimoto T, Aoyagi H, Hatakeyama T, "Characteristic recognition of *N*-acetylglactosamine by an invertebrate C-type lectin, CEL-I, revealed by x-ray crystallographic analysis" *The Journal of Biological Chemistry* **279** 45219-45225 (2004)

202 Sugiyama K, Hayakawa T, Kudo T, Ito T, Yamaya T, "Interaction of *N*-acetylglutamate kinase with a PII-like protein in rice" *Plant Cell Physiology* **45** 1768-1778 (2004)

203 Suzuki M, Kamide Y, Nagata N, Seki H, Ohyama K, Kato H, Masuda K, Sato S, Kato T, Tabata S, Yoshida S, Muranaka T, "Loss of function of 3-hydroxy-3-methylglutaryl coenzyme A

reductase 1 (HMG1) in *Arabidopsis* leads to dwarfing, early senescence and male sterility, and reduced sterol levels" *The Plant Journal* **37** 750-761 (2004)

204 Takahashi-Ando N, Ohsato S, Shibata T, Hamamoto H, Yamaguchi I, Kimura M, "Metabolism of zearalenone by genetically modified organisms expressing the detoxification gene from *Clonostachys rosea*" *Applied and Environmental Microbiology* **70** 3239-3245 (2004)

205 Takatsuka C, Inoue Y, Matsuoka K, Moriyasu Y, "3-Methyladenine inhibits autophagy in tobacco culture cells under sucrose starvation conditions" *Plant Cell Physiology* **45** 265-274 (2004)

206 Takehisa H, Shimodate T, Fukuta Y, Ueda T, Yano M, Yamaya T, Kameya T, Sato T, "Identification of quantitative trait loci for plant growth of rice in paddy field flooded with salt water" *Field Crops Research* **89** 85-95 (2004)

207 Takei K, Ueda N, Aoki K, Kuromori T, Hirayama T, Shinozaki K, Yamaya T, Sakakibara H, "*AtIPT3* is a key determinant of nitrate-dependent cytokinin biosynthesis in *Arabidopsis*" *Plant Cell Physiology* **45** 1053-1062 (2004)

208 Takei K, Yamaya T, Sakakibara H, "*Arabidopsis CYP735A1* and *CYP735A2* encode cytokinin hydroxylases that catalyze the biosynthesis of *trans*-Zeatin" *The Journal of Biological Chemistry* **279** 41866-41872 (2004)

209 Tarutani Y, Morimoto T, Sasaki A, Yasuda M, Nakashita H, Yoshida S, Yamaguchi I, Suzuki Y, "Molecular characterization of two highly homologous receptor-like kinase genes, *RLK902* and *RKL1*, in *Arabidopsis thaliana*" *Bioscience Biotechnology and Biochemistry* **68** 1935-1941 (2004)

210 Tarutani Y, Sasaki A, Yasuda M, Nakashita H, Yoshida S, Yamaguchi I, Suzuki Y, "Identification of three clones which commonly interact with the kinase domains of highly homologous two receptor-like kinase, *RLK902* and *RKL1*" *Bioscience Biotechnology and Biochemistry* **68** 2581-2587 (2004)

211 Tatematsu K, Kumagai S, Muto H, Sato A, Watahiki M, Harper R, Liscum E, Yamamoto K, "*MASSUGU2* encodes Aux/IAA19, an auxin-regulated protein that functions together with the transcriptional activator NPH4/ARF7 to regulate differential growth responses of hypocotyl and formation of lateral roots in *Arabidopsis thaliana*" *The Plant Cell* **16** 379-393 (2004)

212 Tian C, Muto H, Higuchi K, Matamura T, Tatematsu K, Koshiba T, Yamamoto K, "Disruption and overexpression of *auxin response factor 8* gene of *Arabidopsis* affect hypocotyl elongation and root growth habit, indicating its possible involvement in auxin homeostasis in light condition" *The Plant Journal* **40** 333-343 (2004)

213 Tsuchiya Y, Nambara E, Naito S, McCourt P, "The *FUS3* transcription factor functions through the epidermal regulator *TTG1* during embryogenesis in *Arabidopsis*" *The Plant Journal* **37** 73-81 (2004)

214 Uchida T, Yamasaki T, Eto S, Sugawara H, Kurisu G, Nakagawa A, Kusunoki M, Hatakeyama T, "Crystal structure of the hemolytic lectin CEL-III isolated from the marine invertebrate *Cucumaria echinata*" *The Journal of Biological Chemistry* **279** 37133-37141 (2004)

215 Ueda M, Matsui K, Ishiguro S, Sano R, Wada T, Paponov I, Palme K, Okada K, "The *HALTED ROOT* gene encoding the 26S proteasome subunit RPT2a is essential for the maintenance of *Arabidopsis* meristems" *Development* **131** 2101-2111 (2004)

216 Uzawa J, Yoshida S, "A new selective population transfer experiment using a double pulsed field gradient spin-echo" *Magnetic Resonance in Chemistry* **42** 1046-1048 (2004)

217 Yamauchi Y, Ogawa M, Kuwahara A, Hanada A, Kamiya Y, Yamaguchi S, "Activation of gibberellin biosynthesis and response pathways by low temperature during imbibition of *Arabidopsis thaliana* seeds" *The Plant Cell* **16** 367-378 (2004)

218 Zheng M, Takahashi H, Miyazaki A, Hamamoto H, Shah J, Yamaguchi I, Kusano T, "Up-regulation of *Arabidopsis thaliana NHL10* in the hypersensitive response to *Cucumber mosaic virus* infection and in senescing leaves is controlled by signaling pathways that differ in salicylate involvement" *Planta* **218** 740-750 (2004)

219 Aoki K, Suzui N, Fujimaki s, Dohmae N, Sakakibara K, Fujiwara T, Hayashi H, Yamaya T, Sakakibara H, "Destination-selective long-distance movement of phloem proteins" *The Plant Cell* **17** 1801-1814 (2005)

220 Ashikari M, Sakakibara H, Lin S, Yamamoto T, Takashi T, Nishimura A, Angeles E, Qian Q, Kitano H, Matsuoka M, "Cytokinin oxidase regulates rice grain production" *Science* **309** 741-745 (2005)

221 Awazuhara M, Fujiwara T, Hayashi H, Takahashi A, Takahashi H, Saito K, "The function of SULTR2;1 sulfate transporter during seed development in *Arabidopsis thaliana*" *Physiologia Plantarum* **125** 95-105 (2005)

222 Curtis I, Hanada A, Yamaguchi S, Kamiya Y, "Modification of plant architecture through the expression of GA 2-oxidase under the control of an estrogen inducible promoter in *Arabidopsis thaliana* L" *Planta* **222** 957-967 (2005)

223 Galis I, Bilyeu K, Godinho M, Jameson P, "Expression of three *Arabidopsis* cytokinin oxidase/dehydrogenase promoter::GUS chimeric constructs in tobacco: response to developmental and biotic factors" *Plant Growth Regulation* **45** 173-182 (2005)

224 Galis I, Bilyeu K, Wood G, Jameson P, "*Rhodococcus fascians* : shoot proliferation without elevated cytokinins?" *Plant Growth Regulation* **46** 109-115 (2005)

225 Henmi K, Demura T, Tsuboi S, Fukuda H, Iwasaki M, Ogawa K, "Change in the redox state of glutathione regulates differentiation of tracheary elements in *Zinnia* cells and *Arabidopsis* roots" *Plant Cell Physiology* **46** 1757-1765 (2005)

226 Hirai MY, Klein M, Fujikawa Y, Yano M, Goodenowe D, Yamazaki Y, Kanaya S, Nakamura Y, Kitayama M, Suzuki H, Sakurai N, Shibata D, Tokuhisa J, Reichelt M, Gershenzon J, Papenbrock J, Saito K, "Elucidation of Gene-to-Gene and Metabolite-to-Gene Networks in *Arabidopsis* by Integration of Metabolomics and Transcriptomics" *The Journal of Biological Chemistry* **280** 25590-25595 (2005)

227 Hirose N, Makita N, Yamaya T, Sakakibara H, "Functional characterization and expression analysis of a gene, *OsENT2*, encoding an equilibrative nucleoside transporter in rice suggest a function in cytokinin transport" *Plant Physiology* **138** 196-206 (2005)

228 Hoewyk D, Garifullina G, Ackley A, Abedel-Ghany S, Marcus M, Fakra S, Ishiyama K, Inoue E, Pilon M, Takahashi H, Pilon-Smits E, "Overexpression of AtCpNifS enhances selenium tolerance and accumulation in *Arabidopsis*" *Plant Physiology* **139** 1518-1528 (2005)

229 Katagiri T, Ishiyama K, Katoh T, Tabata S, Kobayashi M, Shinozaki K, "An important role of phosphatidic acid in ABA signaling during germination in *Arabidopsis thaliana*" *The Plant Journal* **43** 107-117 (2005)

230 Kawashima C, Berkowitz O, Hell R, Noji M, Saito K, "Characterization and expression analysis of a serine acetyltransferase gene family involved in a key step of the sulfur assimilation pathway in *Arabidopsis*" *Plant Physiology* **137** 220-230 (2005)

231 Kiba T, Naitou T, Koizumi N, Yamashino T, Sakakibara H, Mizuno T, "Combinatorial microarray analysis revealing *Arabidopsis* genes implicated in cytokinin responses through the His → Asp phosphorelay circuitry" *Plant Cell Physiology* **46** 339-355 (2005)

232 Kimura Y, Wada T, Tachibana T, Tsugeki R, Ishiguro S, Okada K, "Regulation of *CAPRICE* transcription by MYB proteins for root epidermis differentiation in *Arabidopsis*" *Plant and Cell Physiology* **46** 817-826 (2005)

233 Kitajima M, Fujii N, Yoshino F, Sudo H, Saito K, Aimi N, Takiyama H, "Camptothecins and two new monoterpene glucosides from *Ophiorrhiza liukiuensis*" *Chemical and Pharmaceutical Bulletin* **53** 1355-1358 (2005)

234 Kohara A, Nakajima C, Hashimoto K, Ikenaga T, Tanaka H, Shoyama Y, Yoshida S, Muranaka T, "A novel glucosyltransferase involved in steroid saponin biosynthesis in *Solanum aculeatissimum*" *Plant Molecular Biology* **57** 225-239 (2005)

235 Kozuka T, Horiguchi G, Kim G, Ohgishi M, Sakai T, Tsukaya H, "The different growth responses of the *Arabidopsis thaliana* leaf blade and the petiole during shade avoidance are regulated by photoreceptors and sugar" *Plant Cell Physiology* **46** 213-223 (2005)

236 Kubo M, Udagawa M, Nishikubo N, Horiguchi G, Yamaguchi M, Ito J, Mimura T, Fukuda H, Demura T, "Transcription switches for protoxylem and metaxylem vessel formation" *Genes & Development* **19** 1855-1860 (2005)

237 Kurata T, Ishida T, Awai C, Noguchi M, Hattori S, Sano R, Nagasaka R, Tominaga R, Kimura Y, Kato T, Sato S, Tabata S, Okada K, Wada T, "Cell-to-cell movement of the CAPRICE protein in *Arabidopsis* root epidermal cell differentiation" *Development* **132** 5387-5398 (2005)

238 Kurata T, Okada K, Wada T, "Intercellular movement of transcription factors" *Current Opinion in Plant Biology* **8** 600-605 (2005)

239 Li W, Khan M, Yamaguchi S, Kamiya Y, "Effects of heavy metals on seed germination and early seedling growth of *Arabidopsis thaliana*" *Plant Growth Regulation* **46** 45-50 (2005)

240 Li W, Liu X, Khan M, Kamiya Y, Yamaguchi S, "Hormonal and environmental regulation of seed germination in flaxweed (*Descurainia sophia*)" *Plant Growth Regulation* **45** 199-207 (2005)"

241 Li W, Liu X, Khan M, Yamaguchi S, "The effect of plant growth regulators, nitric oxide, nitrate, nitrite and light on the germination of dimorphic seeds of *Suaeda salsa* under saline conditions" *Journal of Plant Research* **118** 207-214 (2005)

242 Maeda K, Kimura S, Demura T, Takeda J, Ozeki Y, "DcMYB1 acts as a transcriptional activator of the carrot phenylalanine ammonia-lyase gene (*DcPAL1*) in response to elicitor treatment, UV-B irradiation and the dilution effect" *Plant Molecular Biology* **59** 739-752 (2005)

243 Maruyama-Nakashita A, Nakamura Y, Takahashi A, Inoue E, Yamaya T, Takahashi H, "Identification of a novel *cis*-acting element conferring sulfur deficiency response in *Arabidopsis* roots" *The Plant Journal* **42** 305-314 (2005)

244 Mase K, Sato K, Nakano Y, Nishikubo N, Tsuboi Y, Zhou J, Kitano H, Katayama Y, "The ectopic expression of phenylalanine ammonia lyase with ectopic accumulation of polysaccharide-linked hydroxycinnamoyl esters in internode parenchyma of rice mutant Fukei 71" *Plant Cell Reports* **24** 487-493 (2005)

245 Matsui A, Yokoyama R, Seki M, Ito T, Shinozaki K, Takahashi T, Komeda Y, Nishitani K, "*AtXTH27* plays an essential role in cell wall modification during the development of tracheary elements" *The Plant Journal* **42** 525-534 (2005)

246 Mochizuki S, Harada A, Tominaga S, Sugimoto-Shirasu K, Stacey N, Wada T, Ishiguro S, Okada K, Sakai T, "The *arabidopsis* WAVY GROWTH 2 protein modulates root bending in response to environmental stimuli" *The Plant Cell* **17** 537-547 (2005)

247 Mok M, Martin R, Dobrev P, Vankova R, Ho S, Sakakibara K, Sakakibara H, Mok D, "Topolins and hydroxylated thidiazuron derivatives are substrates of cytokinin O-Glucosyltransferase with position specificity related to receptor recognition" *Plant Physiology* **137** 1057-1066 (2005)

248 Montoya T, Nomura T, Yokota T, Farrar K, Harrison K, Jones J, Kaneta T, Kamiya Y, Szekeres M, Bishop G, "Patterns of *Dwarf* expression and brassinosteroid accumulation in tomato reveal the importance of brassinosteroid synthesis during fruit development" *The Plant Journal* **42** 262-269 (2005)

249 Nakabayashi K, Okamoto M, Koshiba T, Kamiya Y, Nambara E, "Genome-wide profiling of stored mRNA in *Arabidopsis thaliana* seed germination: epigenetic and genetic regulation of transcription in seed" *The Plant Journal* **41** 697-709 (2005)

250 Nakagawa H, Jiang C, Sakakibara H, Kojima M, Honda I, Ajisaka H, Nishijima T, Koshioka M, Tamaki H, Mander L, Takatsuji H, "Overexpression of a petunia zinc-finger gene alters cytokinin metabolism and plant forms" *The Plant Journal* **41** 512-523 (2005)

251 Nambara E, Marion-Poll A, "Absciscic acid biosynthesis and catabolism" *Annual Review of Plant Biology* **56** 165-185 (2005)

252 Narusaka Y, Narusaka M, Seki M, Ishida J, Shinozaki K, Nan Y, Park P, Shiraishi T, Kobayashi M, "Cytological and molecular analyses of non-host resistance of *Arabidopsis thaliana* to *Alternaria alternata*" *Molecular Plant Pathology* **6** 615-627 (2005)

253 Nishimura T, Wada T, Yamamoto K, Okada K, "The *Arabidopsis* STV1 protein, responsible for translation reinitiation, is required for auxin-mediated gynoecium patterning" *The Plant Cell* **17** 2940-2953 (2005)

254 Nishioka M, Nakashita H, Yasuda M, Yoshida S, Yamaguchi I, "Induction of resistance against rice bacterial leaf blight by 3-chloro-1-methyl-1*H*-pyrazole-5-carboxylic acid" *Journal of Pesticide Science* **30** 47-49 (2005)

255 Nomura T, Kushiro T, Yokota T, Kamiya Y, Bishop G, Yamaguchi S, "The last reaction producing brassinolide is catalyzed by cytochrome P-450s, CYP85A3 in tomato and CYP85A2 in *Arabidopsis*" *The Journal of Biological Chemistry* **280** 17873-17879 (2005)

256 Ohashi-Ito K, Kubo M, Demura T, Fukuda H, "Class III Homeodomain Leucine-Zipper Proteins Regulate Xylem Cell Differentiation" *Plant Cell Physiology* **46** 1646-1656 (2005)

257 Okada T, Hirai MY, Suzuki H, Yamazaki M, Saito K, "Molecular characterization of a novel quinolizidine alkaloid *O*-tigloyl-transferase: cDNA cloning, catalytic activity of recombinant protein and expression analysis in *Lupinus* plants" *Plant Cell Physiology* **46** 233-244 (2005)

258 Oksman-Caldentey K, Saito K, "Integrating genomics and metabolomics for engineering plant metabolic pathways" *Current Opinion in Biotechnology* **16** 174-179 (2005)

259 Sakakibara H, Kasahara H, Ueda N, Kojima M, Takei K, Hishiyama S, Asami T, Okada K, Kamiya Y, Yamaya T, Yamaguchi S, "*Agrobacterium tumefaciens* increases cytokinin production in plastids by modifying the biosynthetic pathway in the host plant" *Proceedings of the National Academy of Sciences of the United States of America* **102** 9972-9977 (2005)

260 Sasaki-Sekimoto Y, Taki N, Obayashi T, Aono M, Matsumoto F, Sakurai N, Suzuki H, Hirai MY, Noji M, Saito K, Masuda T, Takamiya K, Shibata D, Ohta H, "Coordinated activation of metabolic pathways for antioxidants and defence compounds by jasmonates and their roles in stress tolerance in *Arabidopsis*" *The Plant Journal* **44** 653-668 (2005)

261 Sawa S, Demura T, Horiguchi G, Kubo M, Fukuda H, "The *ATE* genes are responsible for repression of transdifferentiation into xylem cells in *Arabidopsis*" *Plant Physiology* **137** 141-148 (2005)

262 Seki H, Nishizawa T, Tanaka N, Niwa Y, Yoshida S, Muranaka T, "Hairy root-activation tagging: a high-throughput system for activation tagging in transformed hairy roots" *Plant Molecular Biology* **59** 793-807 (2005)

263 Shimizu M, Igasaki T, Yamada M, Yuasa K, Hasegawa J, Kato T, Tsukagoshi H, Nakamura K, Fukuda H, Matsuoka K, "Experimental determination of proline hydroxylation and hydroxyproline arabinogalactosylation motifs in secretory proteins" *The Plant Journal* **42** 877-889 (2005)

264 Solfanelli C, Ceron F, Paolicchi F, Giorgetti L, Geri C, Ceccarelli N, Kamiya Y, Picciarelli P, "Expression of two genes encoding Gibberellin 2- and 3-oxidases in developing seeds of *Phaseolus coccineus*" *Plant Cell Physiology* **46** 1116-1124 (2005)

265 Someya N, Nakajima M, Watanabe K, Hibi T, Akutsu K, "Potential of *Serratia marcescens* strain B2 for biological control of rice sheath blight" *Biocontrol Science and Technology* **15** 105-109 (2005)

266 Sugawara H, Kawano Y, Hatakeyama T, Yamaya T, Kamiya N, Sakakibara H, "Crystal structure of the histidine-containing phosphotransfer protein ZmHP2 from maize" *Protein Science* **14** 202-208 (2005)

267 Sugawara H, Yamaya T, Sakakibara H, "Crystallization and preliminary X-ray diffraction study of the histidine-containing phosphotransfer protein ZmHP1 from maize" *Acta Crystallographica Section F* **61** 366-368 (2005)

268 Sun J, Hirose N, Wang X, Wen P, Xue L, Sakakibara H, Zuo J, "*Arabidopsis* *SOI33/AtENT8* gene encodes a putative equilibrative nucleoside transporter that is involved in cytokinin transport *in planta* " *Journal of Integrative Plant Biology (Acta Botanica Sinica)* **47** 588-603 (2005)

269 Suzuki T, Nakajima S, Inagaki S, Hirano-Nakakita M, Matsuoka K, Demura T, Fukuda H, Morikami A, Nakamura K, "*TONSOKU* is expressed in S phase of the cell cycle and its defect delays cell cycle progression in *Arabidopsis*" *Plant Cell Physiology* **46** 736-742 (2005)

270 Tabuchi M, Sugiyama K, Ishiyama K, Inoue E, Sato T, Takahashi H, Yamaya T, "Severe reduction in growth rate and grain filling of rice mutants lacking OsGS1;1, a cytosolic glutamine synthetase1;" *The Plant Journal* **42** 641-651 (2005)

271 Takahashi H, Yoshimoto N, Saito K, "Anionic nutrient transport in plants: The molecular basis of the sulfate transporter gene family" *Genetic Engineering* **27** 67-80 (2005)

272 Tatematsu K, Ward S, Leyser O, Kamiya Y, Nambara E, "Identification of cis-Elements That Regulate Gene Expression during Initiation of Axillary Bud Outgrowth in *Arabidopsis*" *Plant Physiology* **138** 757-766 (2005)

273 Terakado J, Fujihara S, Goto S, Kuratani R, Suzuki Y, Yoshida S, Yoneyama T, "Systemic Effect of a Brassinosteroid on Root Nodule Formation in Soybean as Revealed by the Application of Brassinolide and Brassinazole" *Soil Science and Plant Nutrition* **51** 389-395 (2005)

274 Tohge T, Matsui K, Takagi M, Yamazaki M, Saito K, "Enhanced radical scavenging activity of genetically modified *Arabidopsis* seeds" *Biotechnology Letters* **27** 297-303 (2005)

275 Tohge T, Nishiyama Y, Hirai MY, Yano M, Nakajima J, Awazu-hara M, Inoue E, Takahashi H, Goodenwe D, Kitayama M, Noji M, Yamazaki M, Saito K, "Functional genomics by integrated analysis of metabolome and transcriptome of *Arabidopsis* plants over-expressing an MYB transcription factor" *The Plant Journal* **42** 218-235 (2005)

276 Tokai T, Fujimura M, Inoue H, Aoki T, Ohta K, Shibata T, Yamaguchi I, Kimura M, "Concordant evolution of trichothecene 3-*O*-acetyltransferase and an rDNA species phylogeny of trichothecene-producing and non-producing fusaria and other ascomycetous fungi" *Microbiology* **151** 509-519 (2005)

277 Tokimatsu T, Sakurai N, Suzuki H, Ohta H, Nishitani K, Koyama T, Umezawa T, Misawa N, Shibata D, Saito K, "Kappa-View: A web-based analysis tool for integration of transcription and metabolite data on plant metabolic pathway maps" *Plant Physiology* **138** 1289-1300 (2005)

278 Toyooka K, Takai s, Kirikae T, "*Rhodococcus equi* can survive a phagolysosomal environment in macrophages by suppressing acidification of the phagolysosome" *Journal of Medical Microbiology* **54** 1007-1015 (2005)

279 Umeda M, Shimotohno A, Yamaguchi M, "Control of Cell Division and Transcription by Cyclin-dependent Kinase-activating Kinases in Plants" *Plant Cell Physiology* **46** 1437-1442 (2005)

280 Yamada M, Morishita H, Urano K, Shiozaki N, Yamaguchi-Shinozaki K, Shinozaki K, Yoshiba Y, "Effects of free proline accumulation in petunias under drought stress" *Journal of Experimental Botany* **56** 1975-1981 (2005)

281 Yamaguchi-Shinozaki K, Shinozaki K, "Organization of *cis*-acting regulatory elements in osmotic- and cold-stress-responsive promoters" *Trends in Plant Science* **10** 88-94 (2005)

282 Yamauchi D, Sutoh K, Kanegae H, Matsuoka K, Horiguchi T, Fukuda H, Wada M, "Analysis of expressed sequence tags in prothallia of *Adiantum capillus-veneris*" *Journal of Plant Research* **118** 223-227 (2005)

283 Yoshida K, Endo M, Nakazono M, Fukuda H, Demura T, Tsuchiya T, Watanabe M, "cDNA microarray analysis of gene expression changes during pollination, pollen-tube elongation, fertilization, and early embryogenesis in rice pistils" *Sexual Plant Reproduction* **17** 269-275 (2005)

284 Yuasa K, Toyooka K, Fukuda H, Matsuoka K, "Membrane-anchored prollyl hydroxylase with an export signal from the endoplasmic reticulum" *The Plant Journal* **41** 81-94 (2005)

285 Akihiro T, Umezawa T, Ueki C, Mohamed B, Mizuno K, Ohta M, Fujimura T, "Genome wide cDNA-AFLP analysis of genes rapidly induced by combined sucrose and ABA treatment in rice cultured cells" *FEBS Letters* **580** 5947-5952 (2006)

286 Aniento F, Matsuoka K, Robinson D, "ER-to-Golgi transport: the COPII-Pathwayc in the plant endoplasmic reticulum" *Plant Cell Monographs* **4** 99-124 (2006)

287 Arita M, Fujiwara Y, Nakanishi Y, "Map Editor for the Atomic Reconstruction of Metabolism (ARM)" *Biotechnology in Agriculture and Forestry 57: Plant Metabolomics* **57** 129-140 (2006)

288 Azevedo C, Betsuyaku S, Peart J, Takahashi A, Noel L, Sadanandom A, Casais C, Parker J, Shirasu K, "Role of SGT1 in resistance protein accumulation in plant immunity" *The EMBO Journal* **25** 2007-2016 (2006)

289 Bishop G, Nomura T, Yokota T, Montoya T, Castle J, Harrison K, Kushiro T, Kamiya Y, Yamaguchi S, Bancos S, Szatmari A, Szekeres M, "Dwarfism and cytochrome P450-mediated C-6 oxidation of plant steroid hormones" *Biochemical Society Transactions* **34** 1199-1201 (2006)

290 Chono M, Honda I, Shinoda S, Kushiro T, Kamiya Y, Nambara E, Kawakami N, Kaneko S, Watanabe Y, "Field studies on the regulation of abscisic acid content and germinability during grain development of barley: molecular and chemical analysis of pre-harvest sprouting" *Journal of Experimental Botany* **57** 2421-2434 (2006)

291 Fujita M, Fujita Y, Noutoshi Y, Takahashi F, Narusaka Y, Yamaguchi-Shinozaki K, Shinozaki K, "Crosstalk between abiotic and biotic stress responses: a current view from the points of convergence in the stress signaling networks" *Current Opinion in Plant Biology* **9** 436-442 (2006)

292 Galis I, Simek P, Narisawa T, Sasaki M, Horiguchi T, Fukuda H, Matsuoka K, "Tobacco microarray reveals novel MYB transcription factor that selectively activates genes in phenylpropanoid metabolism" *The Plant Journal* **43** 573-592 (2006)

293 Geisler-Lee J, Geisler M, Coutinho P, Segerman B, Nishikubo N, Takahashi J, Aspeborg H, Djerbi S, Master E, Andersson-Gunners S, Sundberg B, Karpinski S, Teeri T, Kleczkowski L, Herrissat B, Mellerowicz E, "Poplar carbohydrate-active enzymes. Gene identification and expression analyses" *Plant Physiology* **140** 946-962 (2006)

294 Gonzalez-Lamothe R, Tsitsigiannis D, Ludwig A, Panicot M, Shirasu K, Jones J, "The U-Box Protein CMPG1 Is Required for Efficient Activation of Defense Mechanisms Triggered by Multiple Resistance Genes in Tobacco and Tomato" *The Plant Cell* **18** 1067-1083 (2006)

295 Gross J, Cho W, Lezhneva L, Falk J, Krupinska K, Shinozaki K, Seki M, Herrmann R, Meurer J, "A plant locus essential for phyloquinone (Vitamin K1) biosynthesis originated from a fusion of four eubacterial genes" *The Journal of Biological Chemistry* **281** 17189-17196 (2006)

296 Hamada T, Igarashi H, Yao M, Hashimoto T, Shimmen T, Sonobe S, "Purification and characterization of plant dynamin from tobacco BY-2 cells" *Plant Cell Physiology* **47** 1175-1181 (2006)

297 Hatayama M, Ono E, Sakakibara K, Tanaka Y, Nishino T, Nakayama T, "Biochemical characterization and mutational studies of a chalcone synthase from yellow snapdragon (*Antirrhinum majus*) flowers" *Plant Biotechnology* **23** 373-378 (2006)

298 Hayashi T, Harada A, Sakai T, Takagi S, "Ca²⁺ transient induced by extracellular changes in osmotic pressure in *Arabidopsis* leaves: differential involvement of cell wall-plasma membrane adhesion" *Plant, Cell and Environment* **29** 661-672 (2006)

299 Higashi Y, Hirai MY, Fujiwara T, Naito S, Noji M, Saito K, "Proteomic and transcriptomic analysis of *Arabidopsis* seeds: Molecular evidence for successive processing of seed proteins and its implication in the stress response to sulfur nutrition" *The Plant Journal* **48** 557-571 (2006)

300 Hwang I, Sakakibara H, "Cytokinin biosynthesis and perception" *Physiologia Plantarum* **126** 528-538 (2006)

301 Ichikawa T, Nakazawa M, Kawashima M, Iizumi H, Kuroda H, Kondou Y, Tsuchida Y, Suzuki K, Ishikawa A, Seki M, Fujita M, Motohashi R, Nagata N, Takagi T, Shinozaki K, Matsui M, "The FOX hunting system: an alternative gain-of-function gene hunting technique" *The Plant Journal* **48** 974-985 (2006)

302 Ichimura K, Casais C, Peck S, Shinozaki K, Shirasu K, "MEKK1 Is Required for MPK4 Activation and Regulates Tissue-specific and Temperature-dependent Cell Death in *Arabidopsis*" *The Journal of Biological Chemistry* **281** 36969-36976 (2006)

303 Imai K, Ohashi Y, Tsuge T, Yoshizumi T, Matsui M, Oka A, Aoyama T, "The A-Type Cyclin CYCA2;3 Is a Key Regulator of Ploidy Levels in *Arabidopsis* Endoreduplication" *The Plant Cell* **18** 382-396 (2006)

304 Ishiyama K, Inoue E, Yamaya T, Takahashi H, "Gln49 and Ser174 residues play critical roles in determining the catalytic efficiencies of plant glutamine synthetase" *Plant Cell Physiology* **47** 299-303 (2006)

305 Kakiuchi Y, Galis I, Tamogami S, Wabiko H, "Reduction of polar auxin transport in tobacco by the tumorigenic *Agrobacterium tumefaciens* AK-6*b* gene" *Planta* **223** 237-247 (2006)

306 Kanno Y, Otomo K, Kenmoku H, Mitsunashi W, Yamane H, Oikawa H, Toshima H, Matsuoka M, Sassa T, Toyomasu T, "Characterization of a rice gene family encoding type-A diterpene cyclases" *Bioscience Biotechnology and Biochemistry* **70** 1702-1710 (2006)

307 Kasukabe N, Watanabe-Sugimoto M, Matsuoka K, Okuma E, Obi I, Nakamura Y, Shimoishi Y, Murata Y, Kakutani K, "Expression and Ca²⁺ dependency of plasma membrane K⁺ channels of Tobacco suspension cells adapted to salt stress" *Plant Cell Physiology* **47** 1674-1677 (2006)

308 Kikuchi J, Hirayama T, "Practical aspects of uniform stable isotope labeling of higher plants for heteronuclear NMR-based metabolomics" *Methods in Molecular Biology* **358** 273-286 (2006)

309 Kita A, He Y, Sugiura R, Ma Y, Deng L, Takegawa K, Matsuoka K, Shuntoh H, Takayoshi K, "Genetic and functional interaction between Ryh1 and Ypt3: two Rab GTPases that function in *S. pombe* secretory pathway" *Genes to Cells* **11** 207-221 (2006)

310 Kojoma M, Seki H, Yoshida S, Muranaka T, "DNA polymorphisms in the tetrahydrocannabinolic acid (THCA) synthase gene in "drug-type" and "fiber-type" *Cannabis sativa* L." *Forensic Science International* **159** 132-140 (2006)

311 Kuroha T, Ueguchi C, Sakakibara H, Satoh S, "Cytokinin receptors are required for normal development of auxin-transporting vascular tissues in the hypocotyl but not in adventitious roots" *Plant Cell Physiology* **47** 234-243 (2006)

312 Kuromori T, Wada T, Kamiya A, Yuguchi M, Yokouchi T, Imura Y, Takabe H, Sakurai T, Akiyama K, Hirayama T, Okada K, Shinozaki K, "A trial of phenome analysis using 4000 *Ds*-insertional mutants in gene-coding regions of Arabidopsis" *The Plant Journal* **47** 640-651 (2006)

313 Lefebvre V, North H, Frey A, Sotta B, Seo M, Okamoto M, Nambara E, Marion-Poll A, "Functional analysis of Arabidopsis *NCED6* and *NCED9* genes indicates that ABA synthesized in the endosperm is involved in the induction of seed dormancy" *The Plant Journal* **45** 309-319 (2006)

314 Loque D, Yuan L, Kojima S, Gojon A, Wirth J, Gazzarrini S, Ishiyama K, Takahashi H, Wiren N, "Additive contribution of AMT1;1 and AMT1;3 to high-affinity ammonium uptake across the plasma membrane of nitrogen-deficient Arabidopsis roots" *The Plant Journal* **48** 522-534 (2006)

315 Machida M, Takechi K, Sato H, Chung S, Kuroiwa H, Takio S, Seki M, Shinozaki K, Fujita T, Hasebe M, Takano H, "Genes for the peptidoglycan synthesis pathway are essential for chloroplast division in moss" *Proceedings of the National Academy of Sciences of the United States of America* **103** 6753-6758 (2006)

316 Martin A, Lee J, Kichey T, Gerentes D, Zivy M, Tatout C, Dubois F, Balliau T, Valot B, Davanture M, Terce-Laforgue T, Quillere I, Coque M, Gallais A, Gonzalez-moro M, Bethencourt L, Habash D, Lea P, Charcosset A, Perez P, Muringneux A, Sakakibara H, Edwards K, Hirel B, "Two cytosolic glutamine synthetase isoforms of maize are specifically involved in the control of grain production" *The Plant Cell* **18** 3252-3274 (2006)

317 Maruyama A, Nakamura Y, Tohge T, Saito K, Takahashi H, "Arabidopsis SLIM1 is a central transcriptional regulator of plant sulfur response and metabolism" *The Plant Cell* **18** 3235-3251 (2006)

318 Mitchum M, Yamaguchi S, Hanada A, Kuwahara A, Yoshioka Y, Kato T, Tabata S, Kamiya Y, Sun T, "Distinct and overlapping roles of two gibberellin 3-oxidases in Arabidopsis development" *The Plant Journal* **45** 804-818 (2006)

319 Muto H, Nagao I, Demura T, Fukuda H, Kinjo M, Yamamoto K, "Fluorescence cross-correlation analyses of the molecular interaction between an Aux/IAA protein, MSG2/IAA19, and protein-protein interaction domains of auxin response factors of Arabidopsis expressed in HeLa cells" *Plant Cell Physiology* **47** 1095-1101 (2006)

320 Myouga F, Motohashi R, Kuromori T, Nagata N, Shinozaki K, "An Arabidopsis chloroplast-targeted Hsp101 homologue, APG6, has an essential role in chloroplast development as well as heat-stress response" *The Plant Journal* **48** 249-260 (2006)

321 Nakajima J, Sato Y, Hoshino T, Yamazaki M, Saito K, "Mechanistic study on the oxidation of anthocyanidin synthase by quantum mechanical calculation" *The Journal of Biological Chemistry* **281** 21387-21398 (2006)

322 Nakamura A, Nakajima N, Goda H, Shimada Y, Hayashi K, Nozaki H, Asami T, Yoshida S, Fujioka S, "Arabidopsis *Aux/IAA* genes are involved in brassinosteroid-mediated growth responses in a manner dependent on organ type" *The Plant Journal* **45** 193-205 (2006)

323 Nishiuchi T, Masuda D, Nakashita H, Ichimura K, Shinozaki K, Yoshida S, Kimura M, Kimura M, Yamaguchi I, Yamaguchi K, "*Fusarium* phytotoxin trichothecenes have an elicitor-like activity in *Arabidopsis thaliana*, but the activity differed significantly among their molecular species" *Molecular Plant-Microbe Interactions* **19** 512-520 (2006)

324 Noji M, Kawashima C, Obayashi T, Saito K, "*In silico* assessment of gene function involved in cysteine biosynthesis in Arabidopsis: expression analysis of multiple isoforms of serine acetyltransferase" *Amino Acids* **30** 163-171 (2006)

325 Nomura T, Bishop G, "Cytochrome P450s in plant steroid hormone synthesis and metabolism" *Phytochemistry Reviews* **5** 421-432 (2006)

326 Noutoshi Y, Kuromori T, Wada T, Hirayama T, Kamiya A, Imura Y, Yasuda M, Nakashita H, Shirasu K, Shinozaki K, "Loss of *NECROTIC SPOTTED LESIONS 1* associates with cell death and defense responses in *Arabidopsis thaliana*" *Plant Molecular Biology* **62** 29-42 (2006)

327 Oh E, Yamaguchi S, Kamiya Y, Bae G, Chung W, Choi G, "Light activates the degradation of PIL5 protein to promote seed germination through gibberellin in Arabidopsis" *The Plant Journal* **47** 124-139 (2006)

328 Ohnishi T, Nomura T, Watanabe B, Ohta D, Yokota T, Miya-gawa H, Sakata K, Mizutani M, "Tomato cytochrome P450 CYP734A7 functions in brassinosteroid catabolism" *Phytochemistry* **67** 1895-1906 (2006)

329 Okamoto M, Kuwahara A, Seo M, Kushiro T, Asami T, Hirai N, Kamiya Y, Koshiba T, Nambara E, "CYP707A1 and CYP707A2, which encode abscisic acid 8'-hydroxylases, are indispensable for proper control of seed dormancy and germination in Arabidopsis" *Plant Physiology* **141** 97-107 (2006)

330 Ono E, Fukuchi-Mizutani M, Nakamura N, Fukui Y, Sakakibara K, Yamaguchi M, Nakayama T, Tanaka T, Kusumi T, Tanaka Y, "Yellow flowers generated by expression of the aurone biosynthetic pathway" *Proceedings of the National Academy of Sciences of the United States of America* **103** 11075-11080 (2006)

331 Ono E, Hatayama M, Isono Y, Sato T, Watanabe R, Sakakibara K, Fukuchi-Mizutani M, Tanaka Y, Kusumi T, Nishino T, Nakayama T, "Localization of a flavonoid biosynthetic polyphenol oxidase in vacuoles" *The Plant Journal* **45** 133-143 (2006)

332 Oono Y, Seki M, Satou M, Iida K, Akiyama K, Sakurai T, Fujita M, Yamaguchi-Shinozaki K, Shinozaki K, "Monitoring expression profiles of *Arabidopsis* genes during cold acclimation and deacclimation using DNA microarrays" *Functional & Integrative Genomics* **6** 212-234 (2006)

333 Pyo H, Demura T, Fukuda H, "Vascular cell expression patterns of Arabidopsis bZIP group I genes" *Plant Biotechnology* **23** 497-501 (2006)

334 Rahman L, Kitamura Y, Yamaguchi J, Mukai M, Akiyama K, Yamamoto H, Muranaka T, Ikenaga T, "Exogenous plant *H6H* but not bacterial *HCHL* gene is expressed in *Duboisia leichhardtii* hairy roots and affects tropane alkaloid production" *Enzyme and Microbial Technology* **39** 1183-1189 (2006)

335 Saito S, Okamoto M, Shinoda S, Kushiro T, Koshiba T, Kamiya Y, Hirai N, Todoroki Y, Sakata K, Nambara E, Mizutani M, "A plant growth retardant, Uniconazole, is a potent inhibitor of ABA catabolism in *Arabidopsis*" *Bioscience Biotechnology and Biochemistry* **70** 1731-1739 (2006)

336 Sakakibara H, "Cytokinins: activity, biosynthesis, and translocation" *Annual Review of Plant Biology* **57** 431-449 (2006)

337 Sakakibara H, Takei K, Hirose N, "Interactions between nitrogen and cytokinin in the regulation of metabolism and development" *Trends in Plant Science* **11** 440-448 (2006)

338 Sakakibara K, Saito K, "Review: genetically modified plants for the promotion of human health" *Biotechnology Letters* **28** 1983-1991 (2006)

339 Sakamoto T, Sakakibara H, Kojima M, Yamamoto Y, Nagasaki H, Inukai Y, Sato Y, Matsuoka M, "Ectopic Expression of KNOTTED1-like homeobox protein induces expression of cytokinin biosynthesis genes in rice" *Plant Physiology* **142** 54-62 (2006)

340 Sakuma Y, Maruyama K, Osakabe Y, Qin F, Seki M, Shinozaki K, Yamaguchi-Shinozaki K, "Functional analysis of an *Arabidopsis* transcription factor, DREB2A, involved in drought-responsive gene expression" *The Plant Cell* **18** 1292-1309 (2006)

341 Sakuma Y, Maruyama K, Qin F, Osakabe Y, Shinozaki K, Yamaguchi-Shinozaki K, "Dual function of an *Arabidopsis* transcription factor DREB2A in water-stress-responsive and heat-stress-responsive gene expression" *Proceedings of the National Academy of Sciences of the United States of America* **103** 18822-18827 (2006)

342 Sasabe M, Soyano T, Takahashi Y, Sonobe S, Igarashi H, Itoh T, Hidaka M, Machida Y, "Phosphorylation of NtMAP65-1 by a MAP kinase down-regulates its activity of microtubule bundling and stimulates progression of cytokinesis of tobacco cells" *Genes & Development* **20** 1004-1014 (2006)

343 Sato Y, Demura T, Yamawaki K, Inoue Y, Seiichi S, Sugiyama M, Fukuda H, "Isolation and characterization of a novel peroxidase gene *ZPO-C* whose expression and function are closely associated with lignification during tracheary element differentiation" *Plant Cell Physiology* **47** 493-503 (2006)

344 Schroeder J, Nambara E, "A quick release mechanism for abscisic acid" *Cell* **126** 1023-1025 (2006)

345 Seo M, Hanada A, Kuwahara A, Endo A, Okamoto M, Yamaguchi Y, North H, Marion-Poll A, Sun T, Koshiba T, Kamiya Y, Yamaguchi S, Nambara E, "Regulation of hormone metabolism in Arabidopsis seeds: phytochrome regulation of abscisic acid metabolism and abscisic acid regulation of gibberellin metabolism" *The Plant Journal* **48** 354-366 (2006)

346 Shinya T, Menard R, Kozono I, Matsuoka H, Shibuya N, Kauffmann S, Matsuoka K, Saito M, "Novel β -1,3-, 1,6-oligoglucan elicitor from *Alternaria alternata* 102 for defense responses in tobacco" *FEBS Journal* **273** 2421-2431 (2006)

347 Soeno K, Fujioka S, Hiranuma S, Seto H, Yoshida S, "Metabolic conversion of castasterone and brassinolide into their glucosides in higher plants" *Journal of Plant Growth Regulation* **25** 195-202 (2006)

348 Stacey N, Kuromori T, Azumi Y, Roberts G, Breuer C, Wada T, Maxwell A, Roberts K, Sugimoto-Shirasu K, "Arabidopsis SPO11-2 functions with SPO11-1 in meiotic recombination" *The Plant Journal* **48** 206-216 (2006)

349 Suzuki M, Xiang T, Ohyama K, Seki H, Saito K, Muranaka T, Hayashi H, Katsube Y, Kushiro T, Shibuya M, Ebizuka Y, "Lanosterol Synthase in Dicotyledonous Plants" *Plant Cell Physiology* **47** 565-571 (2006)

350 Tanaka M, Takei K, Kojima M, Sakakibara H, Mori H, "Auxin controls local cytokinin biosynthesis in the nodal stem in apical dominance" *The Plant Journal* **45** 1028-1036 (2006)

351 Tanaka Y, Sano T, Tamaoki M, Nakajima N, Kondo N, Hasezawa S, "Cytokinin and auxin inhibit abscisic acid-induced stomatal closure by enhancing ethylene production in *Arabidopsis*" *Journal of Experimental Botany* **57** 2259-2266 (2006)

352 Togami J, Tamura M, Ishiguro K, Hirose C, Okuhara H, Ueyama Y, Nakamura N, Sakakibara K, Fukuchi-Mizutani M, Suzuki K, Fukui Y, Kusumi T, Tanaka Y, "Molecular characterization of the flavonoid biosynthesis of *verbena hybrida* and the functional analysis of verbena and *clitoria ternatea* *F3'5'H* genes in transgenic verbena" *Plant Biotechnology* **23** 5-11 (2006)

353 Torada A, Koike M, Mochida K, Ogihara Y, "SSR-based linkage map with new markers using an intraspecific population of

common wheat" *Theoretical and Applied Genetics* **112** 1042-1051 (2006)

354 Toyooka K, Liu F, Ishii M, Saito S, Kirikae T, Asano Y, Shinomiya H, "Generation and characterization of monoclonal antibodies that specifically recognize p65/L-plastin isoform but not T-plastin isoform" *Bioscience Biotechnology and Biochemistry* **70** 1402-1407 (2006)

355 Toyooka K, Moriyasu Y, Goto Y, Takeuchi M, Fukuda H, Matsuoka K, "Protein aggregates are transported to vacuoles by macroautophagic mechanism in nutrient-starved plant cells" *Autophagy* **2** 96-106 (2006)

356 Tsuji H, Aya K, Ueguchi M, Shimada Y, Nakazono M, Watanabe R, Nishizawa N, Gomi K, Shimada A, Kitano H, Ashikari M, Matsuoka M, "GAMYB controls different sets of genes and is differentially regulated by microRNA in aleurone cells and anthers" *The Plant Journal* **47** 427-444 (2006)

357 Tsuji H, Md. A, Arita M, Shinbo Y, Kurokawa K, Kanaya S, "Comparison of Protein Complexes Predicted from PPI Networks by DPCLus and Newman Clustering Algorithms" *IPSI Transactions on Bioinformatics* **47** 31-41 (2006)

358 Tsumoto Y, Yoshizumi T, Kuroda H, Kawashima M, Ichikawa T, Nakazawa M, Yamamoto N, Matsui M, "Light-dependent polyploidy control by a CUE protein variant in *Arabidopsis*" *Plant Molecular Biology* **61** 817-828 (2006)

359 Umezawa T, Fujita M, Fujita Y, Yamaguchi-Shinozaki K, Shinozaki K, "Engineering drought tolerance in plants: discovering and tailoring genes to unlock the future" *Current Opinion in Biotechnology* **17** 113-122 (2006)

360 Umezawa T, Okamoto M, Kushiro T, Nambara E, Oono Y, Seki M, Kobayashi M, Koshiha T, Kamiya Y, Shinozaki K, "CY-P707A3, a major ABA 8'-hydroxylase involved in dehydration and rehydration response in *Arabidopsis thaliana*" *The Plant Journal* **46** 171-182 (2006)

361 Unno H, Uchida T, Sugawara H, Kurisu G, Sugiyama T, Yamaya T, Sakakibara H, Hase T, Kusunoki M, "Atomic structure of plant glutamine synthetase" *The Journal of Biological Chemistry* **281** 29287-29296 (2006)

362 Uzawa J, Fujimoto Y, Yoshida S, "Incorporation of selective population transfer and homo-spin decoupling into selective one-dimensional experiments" *Magnetic Resonance in Chemistry* **44** 45-53 (2006)

363 Yamaguchi S, "Gibberellin biosynthesis in Arabidopsis" *Phytochemistry Reviews* **5** 39-47 (2006)

364 Yamaguchi-Shinozaki K, Shinozaki K, "Transcriptional regulatory networks in cellular responses and tolerance to dehydration and cold stresses" *Annual Review of Plant Biology* **57** 781-803 (2006)

365 Yamazaki M, Saito K, "Isolation and characterization of anthocyanin 5-O-glucosyltransferase in *Perilla frutescens* var. *crispa* by differential display" *Methods in Molecular Biology* **317** 255-266 (2006)

366 Yano M, Kanaya S, Amin M, Kurokawa K, Hirai MY, Saito K, "Integrated data mining of transcriptome and metabolome based on BL-SOM" *Journal of Computer Aided Chemistry* **7** 125-136 (2006)

367 Yoshida R, Umezawa T, Mizoguchi T, Takahashi S, Takahashi F, Shinozaki K, "The regulatory domain of SRK2E/OST1/SnRK2.6 interacts with ABI1 and integrates abscisic acid (ABA) and osmotic stress signals controlling stomatal closure in *Arabidopsis*" *The Journal of Biological Chemistry* **281** 5310-5318 (2006)

368 Yoshizumi T, Tsumoto Y, Takiguchi T, Nagata N, Yamamoto Y, Kawashima M, Ichikawa T, Nakazawa M, Yamamoto N, Matsui M, "INCREASED LEVEL OF POLYPLOIDY1, a Conserved Repressor of CYCLINA2 Transcription, Controls Endoreduplication in *Arabidopsis*" *The Plant Cell* **18** 2452-2468 (2006)

369 Zhong R, Demura T, Ye Z, "SND1, a NAC domain transcription factor, is a key regulator of secondary wall synthesis in fibers of *Arabidopsis*" *The Plant Cell* **18** 3158-3170 (2006)

370 Zhu Y, Nomura T, Xu Y, Zhang Y, Peng Y, Mao B, Hanada A, Zhou H, Wang R, Li P, Zhu X, Mander L, Kamiya Y, Yamaguchi S, He Z, "ELONGATED UPPERMOST INTERNODE Encodes a Cytochrome P450 Monooxygenase That Epoxidizes Gibberellins in a Novel Deactivation Reaction in Rice" *The Plant Cell* **18** 442-456 (2006)

371 Arita M, Tokimatsu T, "Detection of monosaccharide types from coordinates" *Genome Informatics Series* **19** 3-14 (2007)

372 Arite T, Iwata H, Ohshima K, Maekawa M, Nakajima M, Kojima M, Sakakibara H, Kyojuka J, "DWARF10, an RMS1/MAX4/DAD1 ortholog, controls lateral bud outgrowth in rice" *The Plant Journal* **51** 1019-1029 (2007)

373 Asahina M, Yamauchi Y, Hanada A, Kamiya Y, Kamada H, Satoh S, Yamaguchi S, "Effects of the removal of cotyledons on endogenous gibberellin levels in hypocotyls of young cucumber and tomato seedlings" *Plant Biotechnology* **24** 99-106 (2007)

374 Boter M, Amigues B, Peart J, Breuer C, Kadota Y, Casais C, Moore G, Kleanthous C, Ochsenbein F, Shirasu K, Guerois R, "Structural and functional analysis of SGT1 reveals that its interaction with HSP90 is required for the accumulation of Rx, an R protein involved in plant immunity" *The Plant Cell* **19** 3791-3804 (2007)

375 Breuer C, Stacey N, West C, Zhao Y, Chory J, Tsukaya H, Azumi Y, Maxwell A, Roberts K, Sugimoto K, "BIN4, a novel component of the plant DNA topoisomerase VI complex, is required for endoreduplication in *Arabidopsis*" *The Plant Cell* **19** 3655-3668 (2007)

376 Bylesjo M, Eriksson D, Kusano M, Moritz T, Trygg J, "Data integration in plant biology: the O2PLS method for combined modeling of transcript and metabolite data" *The Plant Journal* **52** 1181-1191 (2007)

377 Chunjie T, Chikayama E, Tsuboi Y, Kuromori T, Shinozaki K, Kikuchi J, Hirayama T, "Top-down phenomics of *Arabidopsis thaliana* metabolic profiling by one- and two-dimensional nuclear magnetic resonance spectroscopy and transcriptome analysis of albino mutants" *The Journal of Biological Chemistry* **282** 18532-18541 (2007)

378 Demura T, Fukuda H, "Transcriptional regulation in wood formation" *Trends in Plant Science* **12** 64-70 (2007)

379 Dittmer T, Stacey N, Sugimoto K, Richards E, "LITTLE NUCLEI genes affecting nuclear morphology in *Arabidopsis thaliana*" *The Plant Cell* **19** 2793-2803 (2007)

380 Dubouzet J, Ishihara A, Matsuda F, Miyagawa H, Iwata H, Wakasa K, "Integrated metabolomic and transcriptomic analyses of high-tryptophan rice expressing a mutant anthranilate synthase alpha subunit" *Journal of Experimental Botany* **58** 3309-3321 (2007)

381 Fujita M, Mizukado S, Fujita Y, Ichikawa T, Nakazawa M, Seki M, Matsui M, Yamaguchi-Shinozaki K, Shinozaki K, "Identification of stress-tolerance-related transcription-factor genes via mini-scale Full-length cDNA Over-eXpressor (FOX) gene hunting system" *Biochemical and Biophysical Research Communications* **364** 250-257 (2007)

382 Haga N, Kato K, Murase M, Araki S, Kubo M, Demura T, Suzuki K, Muller I, Vob U, Jurgens G, Ito M, "R1R2R3-Myb proteins positively regulate cytokinesis through activation of KNOLLE transcription in *Arabidopsis thaliana*" *Development* **134** 1101-1110 (2007)

383 Heise C, Le Duff C, Boter M, Casais C, Airey J, Leech A, Amigues B, Guerois R, Moore G, Shirasu K, Kleanthous C, "Biochemical Characterization of RAR1 Cysteine- and Histidine-Rich Domains (CHORDs): A Novel Class of Zinc-Dependent Protein — Protein Interaction Modules" *Biochemistry* **46** 1612-1623 (2007)

384 Hirai MY, Sugiyama K, Sawada Y, Tohge T, Obayashi T, Suzuki A, Araki R, Sakurai N, Suzuki H, Aoki K, Goda H, Nishizawa O, Shibata D, Saito K, "Omics-based identification of *Arabidopsis* Myb transcription factors regulating aliphatic glucosinolate biosynthesis" *Proceedings of the National Academy of Sciences of the United States of America* **104** 6478-6483 (2007)

385 Hirano K, Nakajima M, Asano K, Nishiyama T, Sakakibara H, Kojima M, Katoh E, Xiang H, Tanahashi T, Hasebe M, Banks J, Ashikari M, Kitano H, Ueguchi-Tanaka M, Matsuoka M, "The GID1-mediated gibberellin perception mechanism is conserved in the Lycophyte *Selaginella moellendorffii* but not in the bryophyte *Physcomitrella patens*" *The Plant Cell* **19** 3058-3079 (2007)

386 Hirose N, Makita N, Kojima M, Nobusada T, Sakakibara H, "Overexpression of a type-A response regulator Alters rice morphology and cytokinin metabolism" *Plant Cell Physiology* **48** 523-539 (2007)

387 Ishida T, Hattori S, Sano R, Inoue K, Shirano Y, Hayashi H, Shibata D, Sato S, Kato T, Tabata S, Okada K, Wada T, "Arabidopsis TRANSPARENT TESTA GLABRA2 is directly regulated by R2R3 MYB transcription factors and is involved in regulation of GLABRA2 transcription in epidermal differentiation" *The Plant Cell* **19** 2531-2543 (2007)

388 Ishihara A, Matsuda F, Miyagawa H, Wakasa K, "Metabolomics for metabolically manipulated plants: Effects of tryptophan overproduction" *Metabolomics* **3** 319-334 (2007)

389 Iwabuchi K, Sakai T, Takagi S, "Blue light-dependent nuclear positioning in *Arabidopsis thaliana* leaf cells" *Plant Cell Physiology* **48** 1291-1298 (2007)

390 Iwama A, Yamashino T, Tanaka Y, Sakakibara H, kakimoto T, Sato S, Kato T, Tabata S, Nagatani A, Mizuno T, "AHK5 histidine kinase regulates root elongation through an ETR1-dependent abscisic acid and ethylene signaling pathway in *Arabidopsis thaliana*" *Plant Cell Physiology* **48** 375-380 (2007)

391 Jager C, Symons G, Nomura T, Yamada Y, Smith J, Yamaguchi S, Kamiya Y, Weller J, Yokota T, Reid J, "Characterization of two brassinosteroid C-6 oxidase genes in pea" *Plant Physiology* **143** 1894-1904 (2007)

392 Katsumoto Y, Fukuchi-Mizutani M, Fukui Y, Brugliera F, Holton T, Karan M, Nakamura N, Sakakibara K, Togami J, Pigeaire A, Tao G, Nehra N, Lu C, Dyson B, Tsuda S, Ashikari T, Kusumi T, Mason J, Tanaka Y, "Engineering of the rose flavonoid biosynthetic pathway successfully generated blue-hued flowers accumulating delphinidin" *Plant Cell Physiology* **48** 1589-1600 (2007)

393 Kiba T, Henriques R, Sakakibara H, Chua N, "Targeted degradation of PSEUDO-RESPONSE REGULATOR5 by an SCF^{ZTL} complex regulates clock function and photomorphogenesis in *arabidopsis thaliana*" *The Plant Cell* **19** 2516-2530 (2007)

394 Kobayashi K, Suzuki M, Tang J, Nagata N, Ohya K, Seki H, Kiuchi R, Kaneko Y, Nakazawa M, Matsui M, Matsumoto S, Yoshida S, Muranaka T, "LOVASTATIN INSENSITIVE 1, a Novel Pentatricopeptide Repeat Protein, is a Potential Regulatory Factor of Isoprenoid Biosynthesis in *Arabidopsis*" *Plant Cell Physiology* **48** 322-331 (2007)

395 Kohara A, Nakajima C, Yoshida S, Muranaka T, "Characterization and engineering of glycosyltransferases responsible for steroid saponin biosynthesis in Solanaceous plants" *Phytochemistry* **68** 478-486 (2007)

396 Kurakawa T, Ueda N, Maekawa M, Kobayashi K, Kojima M, Nagato Y, Sakakibara H, Kyojuka J, "Direct control of shoot meristem activity by a cytokinin-activating enzyme" *Nature* **445** 652-655 (2007)

397 Kusano M, Fukushima A, Arita M, Jonsson P, Moritz T, Kobayashi M, Hayashi N, Tohge T, Saito K, "Unbiased characterization of genotype-dependent metabolic regulations by metabolomic approach in *Arabidopsis thaliana*" *BMC Systems Biology* **1** 53 (2007)

398 Kusano M, Fukushima A, Kobayashi M, Hayashi N, Jonsson P, Moritz T, Ebana K, Saito K, "Application of a metabolomic method combining one-dimensional and two-dimensional gas chromatography-time-of-flight/mass spectrometry to metabolic phenotyping of natural variants in rice" *Journal of Chromatography B* **855** 71-79 (2007)

399 Li-Yang J, Nakajima J, Kimura N, Saito K, Seo S, "Oleanane-type triterpene glycosides from *Glycyrrhiza uralensis*" *Natural Product Communications* **2** 243-248 (2007)

400 Lopez-Juez E, Bowyer J, Sakai T, "Distinct leaf developmental and gene expression responses to light quantity depend on blue-photoreceptor or plastid-derived signals, and can occur in the absence of phototropins" *Planta* **227** 113-123 (2007)

401 Luo J, Nishiyama Y, Fuell C, Taguchi G, Elliott K, Hill L, Tanaka Y, Kitayama M, Yamazaki M, Bailey P, Parr A, Michael A, Saito K, Martin C, "Convergent evolution in the BAHD family of acyl transferases: identification and characterization of anthocyanin acyl transferases from *Arabidopsis thaliana*" *The Plant Journal* **50** 678-695 (2007)

402 Maor R, Jones A, Nuhse T, Studholme D, Peck S, Shirasu K, "Multidimensional Protein Identification Technology (MudPIT) Analysis of Ubiquitinated Proteins in Plants" *Molecular and Cellular Proteomics* **6** 601-610 (2007)

403 Maruyama A, Inoue E, Saito K, Takahashi H, "Sulfur-responsive promoter of sulfate transporter gene is potentially useful to detect and quantify selenate and chromate" *Plant Biotechnology* **24** 261-263 (2007)

404 Matsuda F, Wakasa K, Miyagawa H, "Metabolic flux analysis in plants using dynamic labeling technique: Application to tryptophan biosynthesis in cultured rice cells" *Phytochemistry* **68** 2290-2301 (2007)

405 Mitsuda N, Iwase A, Yamamoto H, Yoshida M, Seki M, Shinozaki K, Takagi-Ohme M, "NAC transcription factors, NST1 and NST3, are key regulators of the formation of secondary walls in woody tissues of *Arabidopsis*" *The Plant Cell* **19** 270-280 (2007)

406 Miwa K, Takano J, Omori H, Seki M, Shinozaki K, Fujiwara T, "Plants tolerant of high boron levels" *Science* **318** 14173 (2007)

407 Miya A, Albert P, Shinya T, Desaki Y, Ichimura K, Shirasu K, Narusaka Y, Kawakami N, Kaku H, Shibuya N, "CERK1, a LysM receptor kinase, is essential for chitin elicitor signaling in *Arabidopsis*" *Proceedings of the National Academy of Sciences of the United States of America* **104** 19613-19618 (2007)

408 Mizuno S, Osakabe Y, Maruyama K, Ito T, Sato T, Shinozaki K, Yamaguchi-Shinozaki K, "Receptor-like protein kinase 2 (RPK2) is a novel factor controlling anther development in *Arabidopsis thaliana*" *The Plant Journal* **50** 751-766 (2007)

409 Morioka R, Kanaya S, Hirai MY, Yano M, Ogasawara N, Saito K, "Predicting state transitions in the transcriptome and metabolome using a linear dynamical system model" *BMC Bioinformatics* **8** 343 (2007)

410 Motohashi R, Yamazaki T, Myouga F, Ito T, Ito K, Satou M, Kobayashi M, Nagata N, Yoshida S, Nagashima A, Tanaka K, Takahashi S, Shinozaki K, "Chloroplast ribosome release factor 1 (AtcpRF1) is essential for chloroplast development" *Plant Molecular Biology* **64** 481-497 (2007)

411 Naito T, Yamashino T, Kiba T, Koizumi N, Kojima M, Sakakibara H, Mizuno T, "A link between Cytokinin and ASL9 (*asymmetric leaves 2 like 9*) that belongs to the *AS2/LOB* (*lateral organ boundaries*) family genes in *Arabidopsis thaliana*" *BioScience Biotechnology and Biochemistry* **71** 1269-1278 (2007)

412 Nakagawa Y, Katagiri T, Shinozaki K, Qi Z, Tatsumi H, Furuichi T, Kishigami A, Sokabe M, Kojima I, Sato S, Kato T, Tabata S, Iida K, Nakano M, Ikeda M, Yamanaka T, Iida H, "Arabidopsis plasma membrane protein crucial for Ca²⁺ influx and touch sensing in roots" *Proceedings of the National Academy of Sciences of the United States of America* **104** 3639-3644 (2007)

413 Nakamura H, Hakata M, Amano K, Miyao A, Toki N, Kajikawa M, Jinhuang P, Higashi N, Ando S, Toki S, Fujita M, Enju A, Seki M, Nakazawa M, Ichikawa T, Shinozaki K, Matsui M, Nagamura Y, Hirochika H, Ichikawa H, "A genome-wide gain-of-function analysis of rice genes using the FOX-hunting system" *Plant Molecular Biology* **65** 357-371 (2007)

414 Nakashima K, Todaka D, Ahmed S, Umezawa T, Seki M, Shinozaki K, Yamaguchi-Shinozaki K, "Molecular analysis of abiotic stress: tolerant mechanisms in soybean and its application to breeding" *JIRCAS Working Report* 13-19 (2007)

415 Nakashima K, Tran LS, Van Nguyen D, Fujita M, Maruyama K, Todaka D, Ito Y, Hayashi N, Shinozaki K, Yamaguchi-Shinozaki K, "Functional analysis of a NAC-type transcription factor OsNAC6 involved in abiotic and biotic stress-responsive gene expression in rice" *The Plant Journal* **51** 617-630 (2007)

416 Nanjo T, Sakurai T, Totoki Y, Toyoda A, Nishiguchi M, Kado T, Igasaki T, Futamura N, Seki M, Sakaki Y, Shinozaki K, Shinozaki K, "Functional annotation of 19,841 *Populus nigra* full-length enriched cDNA clones" *BMC Genomics* **8** 1-10 (2007)

417 Nishikubo N, Awano T, Banasiak A, Bourquin V, Ibatullin F, Funada R, Brumer H, Teeri T, Hayashi T, Sundberg B, Mellerowicz E, "Xyloglucan *endo*-transglycosylase (XET) functions in gelatinous layers of tension wood fibers in poplar-A glimpse into the mechanism of the balancing act of trees" *Plant and Cell Physiology* **48** 843-855 (2007)

418 Nyarko A, Mosbahi K, Rowe A, Leech A, Boter M, Shirasu K, Kleanthous C, "TPR-Mediated Self-Association of Plant SGT1" *Biochemistry* **46** 11331-113471 (2007)

419 Obayashi t, Kinoshita K, Nakai K, Shibaoka M, Hayashi s, Saeki M, Shibata D, Saito K, Ohta H, "ATTED-IL: a database of co-expressed genes and cis elements for identifying co-regulated gene groups in *Arabidopsis*" *Nucleic Acids Research* **35** 863-869 (2007)

420 Oh E, Yamaguchi S, Hu J, Jikumaru Y, Jung B, Paik I, Lee H, Sun T, Kamiya Y, Choi G, "PIL5, a phytochrome-interacting bHLH protein, regulates gibberellin responsiveness by binding directly to the *GAI* and *RGA* promoters in *Arabidopsis* seeds" *The Plant Cell* **19** 1192-1208 (2007)

421 Ohyama K, Suzuki M, Masuda K, Yoshida S, Muranaka T, "Chemical phenotypes of the *hmg1* and *hmg2* mutants of *Arabidopsis* demonstrate the *in-planta* role of HMG-CoA reductase in triterpene biosynthesis" *Chemical and Pharmaceutical Bulletin* **55** 1518-1521 (2007)

422 Okuda K, Myouga F, Motohashi R, Shinozaki K, Shikanai T, "Conserved domain structure of pentatricopeptide repeat proteins involved in chloroplast RNA editing" *Proceedings of the National Academy of Sciences of the United States of America* **104** 8178-8183 (2007)

423 Pyo H, Demura T, Fukuda H, "TERE; a novel *cis*-element responsible for a coordinated expression of genes related to programmed cell death and secondary wall formation during differentiation of tracheary elements" *The Plant Journal* **51** 955-965 (2007)

424 Qin F, Kakimoto M, Sakuma Y, Maruyama K, Osakabe Y, Tran LS, Shinozaki K, Yamaguchi-Shinozaki K, "Regulation and functional analysis of *ZmDREB2A* in response to drought and heat stresses in *Zea mays* L" *The Plant Journal* **50** 54-69 (2007)

425 Rivero R, Kojima M, Gepstein A, Sakakibara H, Mittler R, Gepstein S, Blumwald E, "Delayed leaf senescence induces extreme drought tolerance in a flowering plant" *Proceedings of the National Academy of Sciences of the United States of America* **104** 19631-19636 (2007)

426 Saika H, Okamoto M, Miyoshi K, Kushiro T, Shinoda S, Jikumaru Y, Fujimoto M, Arikawa T, Takahashi H, Ando M, Arimura S, Miyao A, Hirochika H, Kamiya Y, Tsutsumi N, Nambara E, Nakazono M, "Ethylene promotes submergence-induced expression of *OsABA8ox1*, a gene that encodes ABA 8'-hydroxylase in Rice" *Plant Cell Physiology* **48** 287-298 (2007)

427 Sakakibara K, Tohge T, Niida R, Saito K, "Identification of a flavonol 7-*O*-rhamnosyltransferase gene determining flavonoid pattern in *Arabidopsis* by transcriptome coexpression analysis and reverse genetics" *The Journal of Biological Chemistry* **282** 14932-14941 (2007)

428 Sakurai T, Plata G, Rodriguez-Zapata F, Seki M, Salcedo A, Toyoda A, Ishiwata A, Tohme J, Sakaki Y, Shinozaki K, Ishitani M, "Sequencing analysis of 20,000 full-length cDNA clones from cassava reveals lineage specific expansions in gene families related to stress response" *BMC Plant Biology* **7** 1-17 (2007)

429 Sasaki K, Saito T, Lamsa M, Oksman-Caldentey K, Suzuki M, Ohyama K, Muranaka T, Ohara K, Yazaki K, "Plants utilize isoprene emission as a thermotolerance mechanism" *Plant Cell Physiology* **48** 1254-1262 (2007)

430 Sato M, Nishikawa T, Kajitani h, Kawano S, "Conserved relationship between FtsZ and peptidoglycan in the cyanelles of *Cyanophora paradoxa* similar to that in bacterial cell division" *Planta* **227** 177-187 (2007)

431 Seki M, Umezawa T, Urano K, Shinozaki K, "Regulatory metabolic networks in drought stress responses" *Current Opinion in Plant Biology* **10** 296-302 (2007)

432 Sekiyama Y, Kikuchi J, "Towards dynamic metabolic network measurements by multi-dimensional NMR-based fluxomics" *Phytochemistry* **68** 2320-2329 (2007)

433 Shen Q, Saijo Y, Mauch S, Biskup C, Bieri S, Keller B, Seki H, Ulker B, Somssich I, Schulze-Lefert P, "Nuclear Activity of MLA Immune Receptors Links Isolate-Specific and Basal Disease-Resistance Responses" *Science* **315** 1098-1103 (2007)

434 Shimamura M, Akashi T, Sakurai N, Suzuki H, Saito K, Shibata D, Ayabe S, Aoki T, "2-Hydroxyisoflavanone dehydratase is a critical determinant of isoflavone productivity in hairy root cultures of *Lotus japonicus*" *Plant Cell Physiology* **48** 1652-1657 (2007)

435 Shinozaki K, "Acceleration of soybean genomics using large collections of DNA markers for gene discovery" *DNA Research* **14** 23533 (2007)

436 Shinozaki K, Yamaguchi-Shinozaki K, "Gene networks involved in drought stress response and tolerance" *Journal of Experimental Botany* **58** 221-227 (2007)

437 Shinya T, Hanai K, Suzuki K, Matsuoka K, Matsuoka H, Saito M, "Characterization of NtChitIV, a class IV chitinase induced by b -1,3-, 1,6-glucan elicitor from *Alternaria alternata* 102: Antagonistic effect of salicylic acid and methyl jasmonate on the induction of NtChitIV" *Biochemical and Biophysical Research Communications* 32527 (2007)

438 Shitsukawa N, Tahira C, Kassai K, Hirabayashi C, Shimizu T, Takumi S, Mochida K, Kawaura K, Ogihara Y, Murai K, "Genetic and epigenetic alteration among three homoeologous genes of a class E MADS box gene in hexaploid wheat" *The Plant Cell* **19** 1723-1737 (2007)

439 Sirikantaramas S, Sudo H, Asano T, Yamazaki M, Saito K, "Transport of camptothecin in hairy roots of *Ophiorrhiza pumila*" *Phytochemistry* **68** 2881-2886 (2007)

440 Sirikantaramas S, Yamazaki M, Saito K, "Mechanisms of resistance to self-produced toxic secondary metabolites in plants" *Phytochemistry Reviews* **7** 467-477 (2007)

441 Sirkikantaramas S, Asano T, Sudo H, Yamazaki M, Saito K, "Camptothecin: Therapeutic potential and biotechnology" *Current Pharmaceutical Biotechnology* **8** 196-202 (2007)

442 Sonoda Y, Shan G, Sako K, Sato T, Kato W, Ohto M, Ichikawa T, Matsui M, Yamaguchi j, Ikeda A, "SHA1, a novel RING finger protein, functions in shoot apical meristem maintenance in *Arabidopsis*" *The Plant Journal* **50** 586-596 (2007)

443 Takahashi F, Yoshida R, Ichimura K, Mizoguchi T, Seo S, Yonezawa M, Maruyama K, Yamaguchi-Shinozaki K, Shinozaki K, "The mitogen-activated protein kinase cascade MKK3-MPK6 is an important part of the jasmonate signal transduction pathway in *Arabidopsis*" *The Plant Cell* **19** 805-818 (2007)

444 Tanaka Y, Kutsuna N, Kanazawa Y, Kondo N, Hasezawa S, Sano T, "Intra-vacuolar reserves of membranes during stomatal closure: The possible role of guard cell vacuoles estimated by 3-D reconstruction" *Plant and Cell Physiology* **48** 1159-1169 (2007)

445 Thao N, Chen L, Nakashima A, Hara S, Umemura K, Takahashi A, Shirasu K, Kawasaki T, Shimamoto K, "RAR1 and HSP90 form a complex with Rac/Rop GTPase and function in innate-immune responses in rice" *The Plant Cell* **19** 4035-4045 (2007)

446 The Rice Annotation Project, "Curated genome annotation of *Oryza sativa* ssp. *japonica* and comparative genome analysis with *Arabidopsos thaliana*" *Genome Research* **17** 175-183 (2007)

447 Tohge T, Sakakibara K, Niida R, Takahashi A, Saito K, "Phytochemical genomics in *Arabidopsis thaliana*: A case study for functional identification of flavonoid biosynthesis genes" *Pure and Applied Chemistry* **79** 10047 (2007)

448 Tomatsu H, Takano J, Takahashi H, Takahashi A, Shibagaki N, Fujiwara T, "An *Arabidopsis thaliana* high-affinity molybdate transporter required for efficient uptake of molybdate from soil" *Proceedings of the National Academy of Sciences of the United States of America* **104** 18807-18812 (2007)

449 Tominaga R, Iwata M, Okada K, Wada T, "Functional analysis of the epidermal-specific MYB genes *CAPRICE* and *WEREWOLF* in *Arabidopsis*" *The Plant Cell* **19** 2264-2277 (2007)

450 Tran LS, Nakashima K, Sakuma Y, Osakabe Y, Qin F, Simpson SD, Maruyama K, Fujita Y, Shinozaki K, Yamaguchi-Shinozaki K, "Co-expression of the stress-inducible zinc finger homeodomain ZFHD1 and NAC transcription factors enhances expression of the *ERD1* gene in *Arabidopsis*" *The Plant Journal* **49** 46-63 (2007)

451 Tran LS, Nakashima K, Shinozaki K, Yamaguchi-Shinozaki K, "Plant gene networks in osmotic stress response: from genes to regulatory networks" *Methods in Enzymology* **428** 109-128 (2007)

452 Tran L-SP, Urao T, Qin F, Maruyama K, Kakimoto T, Shinozaki K, Yamaguchi-Shinozaki K, "Functional analysis of AHK1/ATHK1 and cytokinin receptor histidine kinases in response to abscisic acid, drought, and salt stress in *Arabidopsis*" *Proceedings of the National Academy of Sciences of the United States of America* **104** 20623-20628 (2007)

453 Ukitsu H, Kuromori T, Toyooka K, Goto Y, Matsuoka K, Sakuradani E, Shimizu S, Kamiya A, Imura Y, Yuguchi M, Wada T, Hirayama T, Shinozaki K, "Cytological and biochemical analysis of *COF1*, an *Arabidopsis* mutant of an ABC transporter gene" *Plant Cell Physiology* **48** 1524-1533 (2007)

454 Varbanova M, Yamaguchi S, Yang Y, McKelvey K, Hanada A, Borochov R, Yu F, Jikumaru Y, Ross J, Cortes D, Ma C, Noel J, Mander L, Shulaev V, Kamiya Y, Rodermeel S, Weiss D, Pichersky E, "Methylation of gibberellins by *Arabidopsis* GAMT1 and GAMT2" *The Plant Cell* **19** 32-45 (2007)

455 Yamamoto Y, Ichida H, Matsui M, Obokata J, Sakurai T, Satou M, Seki M, Shinozaki K, Abe T, "Identification of plant promoter constituents by analysis of local distribution of short sequences" *BMC Genomics* **8** 1-23 (2007)

456 Yamauchi Y, Takeda N, Hanada A, Ogawa M, Kuwahara A, Seo M, Kamiya Y, Yamaguchi S, "Contribution of gibberellin deactivation by AtGA2ox2 to the suppression of germination of dark-imbibed *Arabidopsis thaliana* seeds" *Plant Cell Physiology* **48** 555-561 (2007)

457 Yamazaki M, "Medicinal Plant Biotechnology" *Current Pharmaceutical Biotechnology* **8** 967 3e25-1 (2007)

458 Yokoyama A, Yamashino T, Amano Y, Tajima Y, Imamura A, Sakakibara H, Mizono T, "Type-B ARR transcription factors, ARR10 and ARR12, are implicated in cytokinin-mediated regulation of protoxylem differentiation in roots of *arabidopsis thaliana*" *Plant Cell Physiology* **48** 84-96 (2007)

459 Yoneda A, Higaki T, Kutsuna N, Kondou Y, Osada H, Hasegawa S, Matsui M, "Chemical Genetic Screening Identifies a Novel Inhibitor of Parallel Alignment of Cortical Microtubules and Cellulose Microfibrils" *Plant Cell Physiology* **48** 1393-1403 (2007)

460 Yoshimoto N, Inoue E, Takahashi A, Saito K, Takahashi H, "Posttranscriptional regulation of high-affinity sulfate transporters in *Arabidopsis* by sulfur nutrition" *Plant Physiology* **145** 378-388 (2007)

461 Yuan L, Loque D, Kojima S, Rauch S, Ishiyama K, Inoue E, Takahashi H, von Wiren N, "The organization of high-affinity ammonium uptake in *Arabidopsis* roots depends on the spatial arrangement and biochemical properties of AMT1-type transporters" *The Plant Cell* **19** 2636-2652 (2007)

462 Zentella R, Zhang Z, Park M, Thomas S, Endo A, Murase K, Fleet C, Jikumaru Y, Nambara E, Kamiya Y, Sun T, "Global Analysis of DELLA Direct Targets in Early Gibberellin Signaling in *Arabidopsis*" *The Plant Cell* **19** 3037-3057 (2007)

463 Zhou G, Kubo M, Zhong R, Demura T, Ye Z, "Overexpression of miR165 affects apical meristem formation, organ polarity establishment and vascular development in *Arabidopsis*" *Plant Cell Physiology* **48** 391-404 (2007)

464 Akiyama K, Chikayama E, Yuasa H, Shimada Y, Tohge T, Shinozaki K, Hirai MY, Sakurai T, Kikuchi J, Saito K, "PRIME: a Web site that assembles tools for metabolomics and transcriptomics" *In Silico Biology* **8** 339-345 (2008)

465 Arita M, "A pitfall of wiki solution for biological databases" *Briefings in Bioinformatics* 1-2 (2008)

466 Arita M, Suwa K, "Search extension transforms Wiki into a relational system: a case for flavonoid metabolite database" *BioData Mining* **1** 1-8 (2008)

467 Babiychuk E, Bouvier-Nave P, Compagnon V, Suzuki M, Muranaka T, Montagu M, Kushnir S, Schaller H, "Albinism and cell viability in cycloartenol synthase deficient *Arabidopsis*" *Plant Signaling & Behavior* **3** 978-980 (2008)

468 Babiychuk E, Bouvier-Nave P, Compagnon V, Suzuki M, Muranaka T, Montagu M, Kushnir S, Schaller H, "Allelic mutant series reveal distinct functions for *Arabidopsis* cycloartenol synthase 1 in cell viability and plastid biogenesis" *Proceedings of the National Academy of Sciences of the United States of America* **105** 3163-3168 (2008)

469 Cartagene J, Matsunaga S, Seki M, Kurihara D, Yokoyama M, Shinozaki K, Fujimoto S, Azumi Y, Uchimiya S, Fukui K, "The *Arabidopsis* SDG4 contributes to the regulation of pollen tube growth by methylation of histone H3 lysines 4 and 36 in mature pollen" *Developmental Biology* **315** 355-368 (2008)

470 Chikayama E, Suto M, Nishihara T, Shinozaki K, Hirayama T, Kikuchi J, "Systematic NMR Analysis of Stable Isotope Labeled Metabolite Mixtures in Plant and Animal Systems: Coarse Grained Views of Metabolic Pathways" *PLoS One* **3** e3805 (2008)

471 Ehrlich M, Sanchez C, Shao C, Nishiyama R, Kehrl J, Kuick R, Kubota T, Hanash S, "ICF, an immunodeficiency syndrome: DNA methyltransferase 3B involvement, chromosome anomalies, and gene dysregulation" *Autoimmunity* **41** 253-271 (2008)

472 Endo A, Sawada Y, Takahashi H, Okamoto M, Seo M, Toyomasu T, Mitsuhashi W, Shinozaki K, Nakazono M, Koshiba T, Nambara E, "Drought induction of *Arabidopsis* 9-cis-epoxycarotenoid dioxygenase occurs in vascular parenchyma cells" *Plant Physiology* **147** 1984-1993 (2008)

473 Endo S, Pesquet E, Tashiro G, Kuriyama H, Goffner D, Fukuda H, Demura T, "Transient transformation and RNA silencing in *Zinnia* tracheary element differentiating cell cultures" *The Plant Journal* **53** 864-875 (2008)

474 Fukushima A, Wada M, Kanaya S, Arita M, "SVD-based anatomy of gene expressions for correlation analysis in *Arabidopsis thaliana*" *DNA Research* **15** 367-374 (2008)

475 Futamura N, Totoki Y, Toyoda A, Igasaki T, Nanjo T, Seki M, Sakaki Y, Mari A, Shinozaki K, Shinohara K, "Characterization of expressed sequence tags from a full-length enriched cDNA library of *Cryptomeria japonica* male strobili" *BMC Genomics* **9** 383 (2008)

476 Garcia M, Myouga F, Takechi K, Sato H, Nabeshima K, Nagata N, Takio S, Shinozaki K, Takano H, "An *Arabidopsis* homolog of the bacterial peptidoglycan synthesis enzyme MurE has an essential role in chloroplast development" *The Plant Journal* **53** 924-934 (2008)

477 Goda H, Sasaki E, Akiyama K, Maruyama A, Nakabayashi K, Li W, Ogawa M, Yamauchi Y, Preston J, Aoki K, Kiba T, Takatsuto S, Fujioka S, Asami T, Nakano T, Kato H, Mizuno T, Sakakibara H, Yamaguchi S, Nambara E, Kamiya Y, Takahashi H, Hirai MY, Sakurai T, Shinozaki K, Saito K, Yoshida S, Shimada Y, "The AtGenExpress hormone and chemical treatment data set: experimental design, data evaluation, model data analysis and data access" *The Plant Journal* **55** 526-542 (2008)

478 Hamaguchi A, Yamashino T, Koizumi N, Kiba T, Kojima M, Sakakibara H, Mizuno T, "A small subfamily of *Arabidopsis* *RADIALIS*-LIKE *SANT/MYB* genes: a link to HOOKLESS1-Mediated signal transduction during early morphogenesis" *Bioscience Biotechnology and Biochemistry* **72** 2687-2696 (2008)

479 Hanada K, Zou C, Lehti-Shiu M, Shinozaki K, Shiu S, "Importance of lineage-specific expansion of plant tandem duplicates in the adaptive response to environmental stimuli" *Plant Physiology* **148** 993-1003 (2008)

480 Hashimoto K, Igarashi H, Mano S, Takenaka C, Shiina T, Yamaguchi M, Demura T, Nishimura M, Shinmen T, Yokota E, "An isoform of *Arabidopsis* myosin XI interacts with small GTPases in its C-terminal tail region" *Journal of Experimental Botany* **59** 3523-3531 (2008)

481 Hayashi S, Ishii T, Matsunaga T, Tominaga R, Kuromori T, Wada T, Shinozaki K, Hirayama T, "The glycerophosphoryl diester phosphodiesterase-like proteins SHV3 and its homologs play important roles in cell wall organization" *Plant Cell Physiology* **49** 1522-1535 (2008)

482 Hirai MY, "A robust omics-based approach for the identification of glucosinolate biosynthetic genes" *Phytochemistry Reviews* **8** 15-23 (2008)

483 Hirai MY, Saito K, "Analysis of systemic sulfur metabolism in plants using integrated '-omics' strategies" *Molecular Biosystems* **4** 967-973 (2008)

484 Hirano K, Aya K, Hobo T, Sakakibara H, Kojima M, Shim R, Hasegawa Y, Ueguchi-Tanaka M, Matsuoka M, "Comprehensive transcriptome analysis of phytohormone biosynthesis and signaling genes in microspore/pollen and tapetum of rice" *Plant Cell Physiology* **49** 1429-1450 (2008)

485 Hirose N, Takei K, Kuroha T, Nobusada T, Hayashi H, Sakakibara H, "Regulation of cytokinin biosynthesis, compartmentalization and translocation" *Journal of Experimental Botany* **59** 75-83 (2008)

486 Hu J, Mitchum M, Barnaby N, Ayele B, Ogawa M, Nam E, Lai W, Hanada A, Alonso J, Ecker J, Swain S, Yamaguchi S, Kamiya Y, Sun T, "Potential sites of bioactive gibberellin production during reproductive growth in *Arabidopsis*" *The Plant Cell* **20** 320-336 (2008)

487 Ishida T, Kurata T, Okada K, Wada T, "A genetic regulatory network in the development of trichomes and root hairs" *Annual Review of Plant Biology* **59** 365-386 (2008)

488 Kadota Y, Amigues B, Ducassou L, Madaoui H, Ochsenbein F, Guerois R, Shirasu K, "Structural and functional analysis of SGT1-HSP90 core complex required for innate immunity in plants" *EMBO Reports* **9** 1209-1215 (2008)

489 Kawaura K, Mochida K, Ogihara Y, "Genome-wide analysis for identification of salt-responsive genes in common wheat" *Functional & Integrative Genomics* **8** 277-286 (2008)

490 Kim D, Yamaguchi S, Lim S, Oh E, Park J, Hanada A, Kamiya Y, Choi G, "SOMNUS, a CCH-type zinc finger protein in *Arabidopsis*, negatively regulates light-dependent seed germination downstream of PIL5" *The Plant Cell* **20** 1260-1277 (2008)

491 Kim J, To T, Ishida J, Morosawa T, Kawashima M, Matsui A, Toyoda T, Kimura H, Shinozaki K, Seki M, "Alterations of lysine modifications on the histone H3 N-tail under drought stress conditions in *Arabidopsis thaliana*" *Plant and Cell Physiology* **49** 1580-1588 (2008)

492 Kondou Y, Nakazawa M, Kawashima M, Ichikawa T, Yoshizumi T, Suzuki K, Ishikawa A, Koshi T, Matsui R, Muto S, Matsui M, "RETARDED GROWTH OF EMBRYO1, a new basic helix-loop-helix protein, expresses in endosperm to control embryo growth" *Plant Physiology* **147** 1924-1935 (2008)

493 Kurihara Y, Matsui A, Kawashima M, Kaminuma E, Ishida J, Morosawa T, Mochizuki Y, Kobayashi N, Toyoda T, Shinozaki K, Seki M, "Identification of the candidate genes regulated by RNA-directed DNA methylation in *Arabidopsis*" *Biochemical and Biophysical Research Communications* **376** 553-557 (2008)

494 Kuromori T, Azumi Y, Hayakawa S, Kamiya A, Imura Y, Wada T, Shinozaki K, "Homologous chromosome pairing is completed in crossover defective *atzip4* mutant" *Biochemical and Biophysical Research Communications* **370** 98-103 (2008)

495 Magome H, Yamaguchi S, Hanada A, Kamiya Y, Oda K, "The DDF1 transcriptional activator upregulates expression of a gibberellin-deactivating gene, *GA2ox7*, under high-salinity stress in *Arabidopsis*" *The Plant Journal* **56** 613-626 (2008)

496 Matsui A, Ishida J, Morosawa T, Mochizuki Y, Kaminuma E, Endo T, Okamoto M, Nambara E, Nakjima M, Kawashima M, Satou M, Kim J, Kobayashi N, Toyoda T, Shinozaki K, Seki M, "*Arabidopsis* transcriptome analysis under drought, cold, high-salinity and ABA treatment conditions using a tiling array" *Plant Cell Physiology* **49** 1135-1149 (2008)

497 Matsuya A, Hanada K, Itoh T, "Evola: Ortholog database of all human genes in H-InvDB with manual curation of phylogenetic trees" *Nucleic Acids Research* **36** D787-D792 (2008)

498 Mayama T, Nakano M, Uehara Y, Sano M, Fujisawa N, Okada K, Sakai T, "Mapping of the phosphorylation sites on the phototropic signal transducer, NPH3" *Plant Science* **174** 626-633 (2008)

499 Mochida K, Saisho D, Yoshida T, Sakurai T, Shinozaki K, "TriMEDB: A database to integrate transcribed markers and facilitate genetic studies of the tribe Triticeae" *BMC Plant Biology* **8** 1-8 (2008)

500 Motose H, Tominaga R, Wada T, Sugiyama M, Watanabe Y, "A NIMA-related protein kinase suppresses ectopic outgrowth of epidermal cells through its kinase activity and the association with microtubules" *The Plant Journal* **54** 829-844 (2008)

501 Myouga F, Hosoda C, Umezawa T, Iizumi H, Kuromori T, Motohashi R, Shono Y, Nagata N, Ikeuchi M, Shinozaki K, "A heterocomplex of iron superoxide dismutases defends chloroplast nucleoids against oxidative stress and is essential for chloroplast development in *Arabidopsis*" *The Plant Cell* **20** 3148-

3162 (2008)

502 Nagashima A, Suzuki G, Uehara Y, Saji K, Furukawa T, Koshiba T, Sekimoto M, Fujioka S, Kuroha T, Kojima M, Sakakibara H, Fujisawa N, Okada K, Sakai T, "Phytochromes and cryptochromes regulate the differential growth of Arabidopsis hypocotyls in both a PGP19-dependent and a PGP19-independent manner" *The Plant Journal* **53** 516-529 (2008)

503 Nagashima A, Uehara Y, Sakai T, "The ABC subfamily B auxin transporter AtABCB19 is involved in the inhibitory effects of *N* -1-Naphthylphthalamic acid on the phototropic and gravitropic responses of *Arabidopsis* hypocotyls" *Plant Cell Physiology* **49** 1250-1255 (2008)

504 Nakashima A, Chen L, Thao N, Fujiwara M, Wong H, Kuwano M, Umemura K, Shirasu K, Kawasaki T, Shimamoto K, "RACK1 Functions in Rice Innate Immunity by Interacting with the Rac1 Immune Complex" *The Plant Cell* **20** 2265-2279 (2008)

505 Narusaka M, Kawai K, Izawa N, Seki M, Shinozaki K, Seo S, Kobayashi M, Shiraishi T, Narusaka Y, "Gene coding for SigA-binding protein from *Arabidopsis* appears to be transcriptionally up-regulated by salicylic acid and NPR1-dependent mechanisms" *Journal of General Plant Pathology* **74** 345-354 (2008)

506 Nobusada T, Hayashi M, Fukazawa M, Sakakibara H, Nishimura M, "A putative peroxisomal polyamine oxidase, AtPAO4, is involved in Polyamine catabolism in *Arabidopsis thaliana*" *Plant Cell Physiology* **49** 1272-1282 (2008)

507 Ogata Y, Suzuki H, Sakurai N, Aoki K, Saito K, Shibata D, "Cryopreservation and metabolic profiling analysis of *Arabidopsis* T87 suspension-cultured cells" *CryoLetters* **29** 427-436 (2008)

508 Ohkama-Ohtsu N, Oikawa A, Zhao P, Xiang C, Saito K, Oliver D, "A γ -Glutamyl transpeptidase-independent pathway of glutathione catabolism to glutamate via 5-Oxoproline in arabidopsis" *Plant Physiology* **148** 1603-1613 (2008)

509 Ohtani M, Demura T, Sugiyama M, "Differential requirement for the function of SRD2, an snRNA transcription activator, in various stages of plant development" *Plant Molecular Biology* **66** 303-314 (2008)

510 Oikawa A, Matsuda F, Kusano M, Okazaki Y, Saito K, "Rice Metabolomics" *Rice* **1** 63-71 (2008)

511 Okada K, Kasahara H, Yamaguchi S, Kawaide H, Kamiya Y, Nojiri H, Yamane H, "Genetic evidence for the role of isopentenyl diphosphate isomerases in the mevalonate pathway and plant development in Arabidopsis" *Plant Cell Physiology* **49** 604-616 (2008)

512 Qin F, Sakuma Y, Tran LS, Maruyama K, Kidokoro S, Fujita Y, Fujita M, Umezawa T, Sawano Y, Miyazono K, Tanokura M, Shinozaki K, Yamaguchi-Shinozaki K, "*Arabidopsis* DREB2A-interacting proteins function as RING E3 ligases and negatively regulate plant drought stress-responsive gene expression" *The Plant Cell* **20** 1693-1707 (2008)

513 Saito K, Hirai MY, Sakakibara K, "Decoding genes with co-expression networks and metabolomics - 'majority report by precogs'" *Trends in Plant Science* **13** 36-43 (2008)

514 Sakai T, Honing H, Nishioka M, Uehara Y, Takahashi M, Fujisawa N, Saji K, Seki M, Shinozaki K, Jones M, Smirnov N, Okada K, Wasteneys G, "Armadillo repeat-containing kinesins and a NIMA-related kinase are required for epidermal-cell morphogenesis in Arabidopsis" *The Plant Journal* **53** 157-171 (2008)

515 Sakakibara K, Tohge T, Matsuda F, Nakabayashi R, Takayama H, Niida R, Takahashi A, Inoue E, Saito K, "Comprehensive flavonol profiling and transcriptome coexpression analysis leading to decoding gene-metabolite correlations in *Arabidopsis*" *The Plant Cell* **20** 2160-2176 (2008)

516 Sano R, Ogata Y, Suzuki H, Ogawa Y, Dansako T, Sakurai N, Okazaki K, Aoki K, Saito K, Shibata D, "Over-expression of transcription associated factor genes co-expressed with genes of the mevalonate pathway, upstream of isoprenoid biosynthesis, in *Arabidopsis* cultured cells" *Plant Biotechnology* **25** 583-587 (2008)

517 Sano R, Suzuki H, Ogawa Y, Dansako T, Sakurai N, Okazaki K, Aoki K, Saito K, Shibata D, "Suppression of carotenoid synthesis in transgenic *Arabidopsis* cultured cells over-expressing the *AHL29/SOB3* gene" *Plant Biotechnology* **25** 573-577 (2008)

518 Sato S, Arita M, Soga T, Nishioka T, Tomita M, "Time-resolved metabolomics reveals metabolic modulation in rice foliage" *BMC Systems Biology* **1**-13 (2008)

519 Sawada Y, Aoki M, Nakaminami K, Mitsuhashi W, Tatematsu K, Kushiro T, Koshiba T, Kamiya Y, Inoue Y, Nambara E, Toyomasu T, "Phytochrome- and gibberellin-mediated regulation of abscisic acid metabolism during germination of photoblastic lettuce seeds" *Plant Physiology* **146** 1386-1396 (2008)

520 Seki H, Ohyama K, Sawai S, Mizutani M, Ohnishi T, Sudo H, Akashi T, Aoki T, Saito K, Muranaka T, "Licorice β -amyrin 11-oxidase, a cytochrome P450 with a key role in the biosynthesis of the triterpene sweetener glycyrrhizin" *PNAS* **105** 14204-9 (2008)

521 Seo M, Nambara E, Choi G, Yamaguchi S, "Interaction of light and hormone signals in germinating seeds" *Plant Molecular Biology* **1**-10 (2008)

522 Shimizu H, Peng L, Myouga F, Motohashi R, Shinozaki K, Shikanai T, "CRR23/NdhL is a subunit of the chloroplast NAD(P)H dehydrogenase complex in Arabidopsis" *Plant and Cell Physiology* **49** 835-842 (2008)

523 Sirikantaramas S, Yamazaki M, Saito K, "Mutations in topoisomerase I as a self-resistance mechanism coevolved with the production of the anticancer alkaloid camptothecin in plants" *Proceedings of the National Academy of Sciences of the United States of America* **105** 6782-6786 (2008)

524 Sudo E, Itouga M, Yoshida K, Ono Y, Sakakibara H, "Gene expression and sensitivity in response to copper stress in rice leaves" *Journal of Experimental Botany* **59** 3465-3474 (2008)

525 Sugawara H, Ueda N, Kojima M, Makita N, Yamaya T, Sakakibara H, "Structural insight into the reaction mechanism and evolution of cytokinin biosynthesis" *Proceedings of the National Academy of Sciences of the United States of America* **105** 2734-2739 (2008)

526 Sugiyama N, Nakagami H, Mochida K, Daudi A, Tomita M, Shirasu K, Ishihama Y, "Large-scale phosphorylation mapping reveals the extent of tyrosine phosphorylation in *Arabidopsis*" *Molecular Systems Biology* **1**-7 (2008)

527 Suzuki H, Sasaki R, Ogata Y, Nakamura Y, Sakurai N, Kitajima M, Takayama H, Kanaya S, Aoki K, Shibata D, Saito K, "Metabolic profiling of flavonoids in *Lotus japonicus* using liquid chromatography Fourier transform ion cyclotron resonance mass spectrometry" *Phytochemistry* **69** 99-111 (2008)

528 Taji T, Sakurai T, Mochida K, Ishiwata A, Kurotani A, Totoki Y, Toyoda A, Sakaki Y, Seki M, Ono H, Sakata Y, Tanaka S, Shinozaki K, "Large-scale collection and annotation of full-length enriched cDNAs from a model halophyte, *Thellungiella halophila*" *BMC Plant Biology* **8** 115 (2008)

529 Takahashi N, Maes S, Lammens T, Yoshizumi T, De Jaeger G, Wittens E, Inze D, De Veylder L, "The DNA replication checkpoint aids survival of plants deficient in the novel replisome factor ETG1" *The EMBO Journal* **27** 1840-1851 (2008)

530 Takano K, Toyooka K, Suetsugu S, "EFC/F-BAR proteins and the N-WASP-WIP complex induce membrane curvature-dependent actin polymerization" *The EMBO Journal* **27** 2817-2828 (2008)

531 Tatematsu K, Nakabayashi K, Kamiya Y, Nambara E, "Transcription factor AtTCP14 regulates embryonic growth potential during seed germination in *Arabidopsis thaliana*" *The Plant Journal* **53** 42-52 (2008)

532 Toh S, Imamura A, Watanabe A, Nakabayashi K, Okamoto M, Jikumaru Y, Hanada A, Aso Y, Ishiyama K, Tamura N, Iuchi S, Kobayashi M, Yamaguchi S, Kamiya Y, Nambara E, Kawakami N, "High temperature-induced abscisic acid biosynthesis and its role in the inhibition of gibberellin action in Arabidopsis seeds" *Plant Physiology* **146** 1368-1385 (2008)

533 Tokuda M, Yang M, Yukawa J, "Taxonomy and molecular phylogeny of *Daphnephila* gall midges (Diptera: Cecidomyiidae) inducing complex leaf galls on Lauraceae, with descriptions of five new species associated with *Machilus thunbergii* in Taiwan" *Zoological Science* **25** 533-545 (2008)

534 Tominaga R, Iwata M, Sano R, Inoue K, Okada K, Wada T, "*Arabidopsis* *CAPRICE-LIKE MYB 3 (CPL3)* controls endoreduplication and flowering development in addition to trichome and root hair formation" *Development* **135** 1335-1345 (2008)

535 Trujillo M, Ichimura K, Casais C, Shirasu K, "Negative Regulation of PAMP-Triggered Immunity by an E3 Ubiquitin Ligase Triplet in *Arabidopsis*" *Current Biology* **18** 1396-1401 (2008)

536 Umehara M, Hanada A, Yoshida S, Akiyama K, Arite T, Takeda N, Magome H, Kamiya Y, Shirasu K, Yoneyama K, Kyojuka J, Yamaguchi S, "Inhibition of shoot branching by new terpenoid plant hormones" *Nature* **455** 195-200 (2008)

537 Umezawa T, Sakurai T, Totoki Y, Toyoda A, Seki M, Ishiwata A, Akiyama K, Kurotani A, Yoshida T, Mochida K, Kasuga M, Todaka D, Maruyama K, Nakashima K, Enju A, Mizukado S, Ahmed S, Yoshiwara K, Harada K, Tsubokura Y, Hayashi M, Sato S, Anai T, Ishimoto M, Funatsuki H, Teraishi M, Osaki M, Shinano T, Akashi R, Sakaki Y, Yamaguchi-Shinozaki K, Shinozaki K, "Sequencing and analysis of approximately 40 000 soybean cDNA clones from a full-length-enriched cDNA library" *DNA Research* **15** 333-346 (2008)

538 Wangwattana B, Koyama Y, Nishiyama Y, Kitayama M, Yamazaki M, Saito K, "Characterization of *PAP1*-upregulated glutathione *S*-transferase genes in *Arabidopsis thaliana*" *Plant Biotechnology* **25** 191-196 (2008)

539 Watanabe M, Kusano M, Oikawa A, Fukushima A, Noji M, Saito K, "Physiological roles of the β -substituted alanine synthase gene family in Arabidopsis" *Plant Physiology* **146** 310-320 (2008)

540 Watanabe M, Mochida K, Kato T, Tabata S, Yoshimoto N, Noji M, Saito K, "Comparative genomics and reverse genetics analysis reveal indispensable functions of the serine acetyltransferase gene family in *Arabidopsis*" *The Plant Cell* **20** 2484-2496 (2008)

541 Yamaguchi M, Kubo M, Fukuda H, Demura T, "VASCULAR-RELATED NAC-DOMAIN7 is involved in the differentiation of all types of xylem vessels in Arabidopsis roots and shoots" *The Plant Journal* **55** 652-664 (2008)

542 Yamaguchi S, "Gibberellin metabolism and its regulation" *Annual Review of Plant Biology* **59** 225-251 (2008)

543 Yamazaki M, Shibata M, Nishiyama Y, Springob K, Kitayama M, Shimada N, Aoki T, Ayabe S, Saito K, "Differential gene expression profiles of red and green forms of *Perilla frutescens* leading to comprehensive identification of anthocyanin biosynthetic genes" *FEBS Journal* **275** 3494-3502 (2008)

544 Yokotani N, Ichikawa T, Kondou Y, Matsui M, Hirochika H, Iwabuchi M, Oda K, "Expression of rice heat stress transcription factor OsHsfA2e enhances tolerance to environmental stresses in transgenic *Arabidopsis*" *Planta* **227** 957-967 (2008)

545 Yoshida T, Sakuma Y, Todaka D, Maruyama K, Qin F, Mizoi J, Kidokoro S, Fujita Y, Shinozaki K, Yamaguchi-Shinozaki K, "Functional analysis of an *Arabidopsis* heat-shock transcription factor *HsfA3* in the transcriptional cascade downstream of the DREB2A stress-regulatory system" *Biochemical and Biophysical Research Communications* **368** 515-521 (2008)

546 Zhang M, Boter M, Li K, Kadota Y, Panaretou B, Prodromou C, Shirasu K, Pearl L, "Structural and functional coupling of Hsp90- and Sgt1-centred multi-protein complexes" *The EMBO Journal* **27** 2789-2798 (2008)

547 Abe K, Osakabe K, Ishikawa Y, Tagiri A, Yamanouchi H, Takyuu T, Yoshioka T, Ito T, Kobayashi M, Shinozaki K, Ichikawa H, Toki S, "Inefficient double-strand DNA break repair is associated with increased fasciation in *Arabidopsis* *BRCA2* mutants" *Journal of Experimental Botany* **60** 2751-2761 (2009)

548 Albinsky D, Kusano M, Higuchi M, Hayashi N, Kobayashi M, Fukushima A, Mori M, Ichikawa T, Matsui K, Kuroda H, Horii Y, Tsumoto Y, Sakakibara H, Hirochika H, Matsui M, Saito K, "Metabolomic Screening Applied to Rice FOX *Arabidopsis* Lines Leads to the Identification of a Gene-Changing Nitrogen Metabolism" *Molecular Plant* **1**-18 (2009)

549 Ara T, Sakurai N, Tange Y, Morishita Y, Suzuki H, Aoki K, Saito K, Shibata D, "Improvement of the quantitative differential metabolome pipeline for gas chromatography-mass spectrometry data by automated reliable peak selection" *Plant Biotechnology* **26** 445-449 (2009)

550 Arita M, "What can metabolomics learn from genomics and

proteomics?" *Current Opinion in Biotechnology* **20** 610-615 (2009)

551 Arite T, Umehara M, Ishikawa S, Hanada A, Maekawa M, Yamaguchi S, Kyoza J, "d14, a strigolactone-insensitive mutant of rice, shows an accelerated outgrowth of tillers" *Plant and Cell Physiology* **50** 1416-1424 (2009)

552 Breuer C, Kawamura A, Ichikawa T, Wada-Tominaga R, Wada T, Kondou Y, Muto S, Matsui M, Sugimoto K, "The Trihelix Transcription Factor GTL1 regulates ploidy-dependent Cell Growth in the *Arabidopsis* Trichome" *The Plant Cell* **21** 2307-2322 (2009)

553 Cuadros-Inostroza A, Caldana C, Redestig H, Kusano M, Lisec J, Pena-Cortes H, Willmitzer L, Hannah M, "TargetSearch - a Bio-conductor package for the efficient preprocessing of GC-MS metabolite profiling data" *BMC Bioinformatics* **10** 428 (2009)

554 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* **50** 2123-2132 (2009)

555 Fukushima A, Kanaya S, Arita M, "Characterizing gene coexpression modules in *Oryza sativa* based on a graph-clustering approach" *Plant Biotechnology* **26** 485-493 (2009)

556 Fukushima A, Kusano M, Nakamichi N, Kobayashi M, Hayashi N, Sakakibara H, Mizuno T, Saito K, "Impact of clock-associated *Arabidopsis* pseudo-response regulators in metabolic coordination" *Proceedings of the National Academy of Sciences of the United States of America* **106** 7251-7256 (2009)

557 Fukushima A, Kusano M, Redestig H, Arita M, Saito K, "Integrated omics approaches in plant systems biology" *Current Opinion in Chemical Biology* **13** 532-538 (2009)

558 Hanada K, Kuromori T, Myouga F, Toyoda T, Li W, Shinozaki K, "Evolutionary Persistence of Functional Compensation by Duplicate Genes in *Arabidopsis*" *Genome Biology and Evolution* **1** 409-414 (2009)

559 Hanada K, Kuromori T, Myouga F, Toyoda T, Shinozaki K, "Increased expression and protein divergence in duplicate genes is associated with morphological diversification" *PLoS Genetics* **5** e1000781 (2009)

560 Hanada K, Vallejo V, Nobuta K, Slotkin K, Lisch D, Meyers B, Shiu S, Jiang N, "The functional role of Pack-MULEs in rice inferred from purifying selection and expression profile" *The Plant Cell* **1** 25-38 (2009)

561 Hasegawa Y, Arita M, "Properties of the maximum q-likelihood estimator for independent random variables" *Physica A* **388** 3399-3412 (2009)

562 Higuchi M, Ozaki H, Matsui M, Sonoike K, "A T-DNA insertion mutant of *AtHMA1* gene encoding a Cu transporting ATPase in *Arabidopsis thaliana* has a defect in the water-water cycle of photosynthesis" *Journal of Photochemistry and Photobiology B: Biology* **94** 205-213 (2009)

563 Higuchi M, Yoshizumi T, Kuriyama T, Hara H, Akagi C, Shimada H, Matsui M, "Simple construction of plant RNAi vectors using long oligonucleotides" *Journal of Plant Research* **122** 477-482 (2009)

564 Igawa T, Fujiwara M, Takahashi H, Sawasaki T, Endo Y, Seki M, Shinozaki K, Fukao Y, Yanagawa Y, "Isolation and identification of ubiquitin-related proteins from *Arabidopsis* seedlings" *Journal of Experimental Botany* **60** 3067-3073 (2009)

565 Ikegami k, Okamoto M, Seo M, Koshiba T, "Activation of abscisic acid biosynthesis in the leaves of *Arabidopsis thaliana* in response to water deficit" *Journal of Plant Research* **122** 235-243 (2009)

566 Ishida T, Fujiwara S, Miura K, Stacey N, Yoshimura M, Schneider K, Adachi S, Minamisawa K, Umeda M, Sugimoto K, "SUMO E3 Ligase HIGH PLOIDY2 Regulates Endocycle Onset and Meristem Maintenance in *Arabidopsis*" *The Plant Cell* **21** 2284-2297 (2009)

567 Ito-Inaba Y, Sato M, Masuko H, Hida Y, Toyooka K, Watanabe M, Inaba T, "Developmental changes and organelle biogenesis in the reproductive organs of thermogenic skunk cabbage (*Symplocarpus renifolius*)" *Journal of Experimental Botany* **60** 3909-3922 (2009)

568 Kawakatsu T, Taramino G, Itoh J, Allen J, Sato Y, Hong S, Yule R, Nagasawa N, Kojima M, Kusaba M, Sakakibara H, Sakai H, Nagato Y, "*PLASTOCHRON3/GOLIATH* encodes a glutamate carboxypeptidase required for proper development in rice" *The Plant Journal* **58** 1028-1040 (2009)

569 Kawashima C, Yoshimoto N, Maruyama-Nakashita A, Tsuchiya Y, Saito K, Takahashi H, Dalmay T, "Sulphur starvation induces the expression of microRNA-395 and one of its target genes but in different cell types" *The Plant Journal* **57** 313-321 (2009)

570 Kidokoro S, Maruyama K, Nakashima K, Imura Y, Narusaka Y, Shinwari Z, Osakabe Y, Fujita Y, Mizoi J, Shinozaki K, Yamaguchi-Shinozaki K, "The phytochrome-interacting factor PIF7 negatively regulates *DREB1* expression under circadian control in *Arabidopsis*" *Plant Physiology* **151** 2046-2057 (2009)

571 Kondou Y, Higuchi M, Takahashi S, Sakurai T, Ichikawa T, Kuroda H, Yoshizumi T, Tsumoto Y, Horii Y, Kawashima M, Hasegawa Y, Kuriyama T, Matsui K, Kusano M, Albinsky D, Takahashi H, Tsuchiya Y, Suzuki M, Sakakibara H, Kojima M, Akiyama K, Kurotani A, Seki M, Fujita M, Enju A, Yokotani N, Saitou T, Ashidate K, Fujimoto N, Ishikawa Y, Mori Y, Nanba R, Takata K, Uno K, Sugano S, Natsuki J, Dobouzet J, Maeda S, Ohtake M, Mori M, Oda K, Takatsuji H, Hirochika H, Matsui M, "Systematic approaches to using the FOX hunting system to identify useful rice genes" *The Plant Journal* **57** 883-894 (2009)

572 Kurasawa K, Matsui A, Yokoyama R, Kuriyama T, Yoshizumi T, Matsui M, Suwabe K, Watanabe M, Nishitani K, "The *AtXTH28* gene, a xyloglucan endotransglucosylase/hydrolase, is involved in automatic self-pollination in *Arabidopsis thaliana*" *Plant Cell Physiology* **50** 413-422 (2009)

573 Kurihara Y, Kaminuma E, Matsui A, Kawashima M, Tanaka M, Morosawa T, Ishida J, Mochizuki Y, Shinozaki K, Toyoda T, Seki M, "Transcriptome analyses revealed diverse expression changes in *ago1* and *hyl1* *Arabidopsis* mutants" *Plant and Cell Physiology* **50** 1715-1720 (2009)

574 Kurihara Y, Matsui A, Hanada K, Kawashima M, Ishida J, Morosawa T, Tanaka M, Kaminuma E, Mochizuki Y, Matsushima A, Toyoda T, Shinozaki K, Seki M, "Genome-wide suppression of aberrant mRNA-like noncoding RNAs by NMD in *Arabidopsis*" *Proceedings of the National Academy of Sciences of the United States of America* **106** 2453-2458 (2009)

575 Kuromori T, Takahashi S, Kondou Y, Shinozaki K, Matsui M, "Phenome analysis in plant species using loss-of-function and gain-of-function mutants" *Plant and Cell Physiology* **50** 1215-1231 (2009)

576 Lee B, Johnston R, Yang Y, Gallavotti A, Kojima M, Travençolo B, Costa L, Sakakibara H, David J, "Studies of *aberrant phyllotaxy1* mutants of maize indicate complex interactions between Auxin and Cytokinin signaling in the shoot apical meristem" *Plant Physiology* **150** 205-216 (2009)

577 Lehti-Shiu M, Cheng Z, Hanada K, Shiu S, "Evolutionary History and Stress Regulation of Plant Receptor-Like Kinase/Pelle Genes" *Plant Physiology* **150** 12-16 (2009)

578 Maruyama K, Takeda M, Kidokoro S, Yamada K, Sakuma Y, Urano K, Fujita M, Yoshiwara K, Matsukura S, Morishita Y, Sasaki R, Suzuki H, Saito K, Shibata D, Shinozaki K, Yamaguchi-Shinozaki K, "Metabolic pathways involved in cold acclimation identified by integrated analysis of metabolites and transcripts regulated by DREB1A and DREB2A" *Plant Physiology* **150** 1972-1980 (2009)

579 Matsuda F, Hirai MY, Sasaki E, Akiyama K, Sakakibara K, Provar N, Sakurai T, Saito K, "AtMetExpress Development: A Phytochemical Atlas of *Arabidopsis* Development" *Plant Physiology* **152** 566-578 (2009)

580 Matsuda F, Redestig H, Sawada Y, Shinbo Y, Hirai MY, Kanaya S, Saito K, "Visualization of metabolite identifier information" *Plant Biotechnology* **26** 479-483 (2009)

581 Matsuda F, Sakakibara K, Niida R, Kuromori T, Shinozaki K, Saito K, "MS/MS spectral tag (MS2T)-based annotation of non-targeted profile of plant secondary metabolites" *The Plant Journal* **57** 555-77 (2009)

582 Matsuda F, Shinbo Y, Oikawa A, Hirai MY, Fiehn O, Kanaya S, Saito K, "Assessment of Metabolome Annotation Quality: A Method for Evaluating the False Discovery Rate of Elemental Composition Searches" *PLoS One* **4** e7490 (2009)

583 Matsukura K, Matsumura M, Takeuchi H, Endo N, Tokuda M, "Distribution, host plants, and seasonal occurrence of the maize orange leafhopper, *Cicadulina bipunctata* (Melichar) (Homoptera: Cicadellidae), in Japan" *Applied Entomology and Zoology* **44** 207-214 (2009)

584 Matsukura K, Matsumura M, Tokuda M, "Host manipulation by the orange leafhopper *Cicadulina bipunctata*: gall induction on distant leaves by dose-dependent stimulation" *Naturwissenschaften* **96** 1059-1066 (2009)

585 Mochida K, Furuta T, Ebana K, Shinozaki K, Kikuchi J, "Correlation exploration of metabolic and genomic diversity in rice" *BMC Genomics* **10** 1-10 (2009)

586 Mochida K, Yoshida T, Sakurai T, Ogihara Y, Shinozaki K, "TriFLDB: A database of clustered full-length coding sequences from triticeae with applications to comparative grass genomics" *Plant Physiology* **150** 1135-1146 (2009)

587 Mochida K, Yoshida T, Sakurai T, Yamaguchi-Shinozaki K, Shinozaki K, Tran L-SP, "*In silico* analysis of transcription factor repertoire and prediction of stress responsive transcription factors in soybean" *DNA Research* **16** 353-369 (2009)

588 Morioka R, Arita M, Sakamoto K, Kawaguchi S, Tei H, Horimoto K, "Period-phase map: two-dimensional selection of circadian rhythm-related genes" *IET System Biology* **3** 487-495 (2009)

589 Mugford S, Yoshimoto N, Reichelt M, Wirtz M, Hill L, Mugford S, Nakazato Y, Noji M, Takahashi H, Kramell R, Gigolashvili T, Flugge U, Wasternack C, Gershenzon J, Hell R, Saito K, Kopriva S, "Disruption of Adenosine-5'-Phosphosulfate Kinase in *Arabidopsis* Reduces Levels of Sulfated Secondary Metabolites" *The Plant Cell* **21** 910-927 (2009)

590 Nakabayashi R, Kusano M, Kobayashi M, Tohge T, Sakakibara K, Kogure N, Yamazaki M, Kitajima M, Saito K, Takayama H, "Metabolomics-oriented isolation and structure elucidation of 37 compounds including two anthocyanins from *Arabidopsis thaliana*" *Phytochemistry* **70** 1017-1029 (2009)

591 Nakamichi N, Fukushima A, Kusano M, Sakakibara H, Takeshi M, Saito K, "Linkage between circadian clock and tricarboxylic acid cycle in *Arabidopsis*" *Plant Signaling & Behavior* **4** 660-662 (2009)

592 Nakamichi N, Kusano M, Fukushima A, Kita M, Ito S, Yamashino T, Saito K, Sakakibara H, Mizuno T, "Transcript profiling of an *Arabidopsis PSEUDO RESPONSE REGULATOR* arrhythmic triple mutant reveals a role for the circadian clock in cold stress response" *Plant Cell Physiology* **50** 447-462 (2009)

593 Nakashima K, Fujita Y, Kanamori N, Katagiri T, Umezawa T, Kidokoro S, Maruyama K, Yoshida T, Ishiyama K, Kobayashi M, Shinozaki K, Yamaguchi-Shinozaki K, "Three *Arabidopsis* SnRK2 protein kinases, SRK2D/SnRK2.2, SRK2E/SnRK2.6/OST1 and SRK2I/SnRK2.3, involved in ABA signaling are essential for the control of seed development and dormancy" *Plant and Cell Physiology* **50** 1345-1363 (2009)

594 Nambara E, Yamagishi K, Tatematsu K, Nakabayashi K, Kamiya Y, "Nitrate responses of *Arabidopsis* cho1 mutants: Obvious only when excess nitrate is supplied" *Plant Signaling & Behavior* **4** 1166-1168 (2009)

595 Narusaka M, Shirasu K, Noutoshi Y, Kubo Y, Shiraishi T, Iwabuchi M, Narusaka Y, "*RRS1* and *RPS4* provide a dual Resistance-gene system against fungal and bacterial pathogens" *The Plant Journal* **60** 218-226 (2009)

596 Nemoto K, Hara M, Goto S, Kasai K, Seki H, Suzuki M, Oka A, Muranaka T, Mano Y, "The *aux1* gene of the Ri plasmid is sufficient to confer auxin autotrophy in tobacco BY-2 cells" *Journal of Plant Physiology* **166** 729-738 (2009)

597 Nemoto K, Hara M, Suzuki M, Seki H, Muranaka T, Mano Y, "The *NtAMI1* gene functions in cell division of tobacco BY-2 cells in the presence of indole-3-acetamide" *FEBS Letters* **583** 487-492 (2009)

598 Nobusada T, Sakakibara H, "Molecular basis for cytokinin biosynthesis" *Phytochemistry* **70** 444-449 (2009)

599 Nozawa A, Matsubara Y, Tanaka Y, Takahashi H, Akagi T, Seki M, Shinozaki K, Endo Y, Sawasaki T, "Construction of a protein

library of Arabidopsis transcription factors using a wheat cell-free protein production system and its application for DNA binding analysis" *Bioscience Biotechnology and Biochemistry* **73** 1661-1664 (2009)

600 Ogata Y, Sakurai N, Aoki K, Suzuki H, Okazaki K, Saito K, Shibata D, "KAGIANA: An Excel-based tool for retrieving summary information on *Arabidopsis* genes" *Plant Cell Physiology* **50** 173-177 (2009)

601 Oh E, Kang H, Yamaguchi S, Park J, Lee D, Kamiya Y, Choi G, "Genome-wide analysis of genes targeted by PHYTOCHROME INTERACTING FACTOR 3-LIKE5 during seed germination in *Arabidopsis*" *The Plant Cell* **201** 403-419 (2009)

602 Ohyama K, Suzuki M, Kikuchi J, Saito K, Muranaka T, "Dual biosynthetic pathways to phytosterol via cycloartenol and lanosterol in *Arabidopsis*" *PNAS* **106** 725-730 (2009)

603 Okamoto M, Hanada A, Kamiya Y, Yamaguchi S, Nambara E, "Measurement of Absciscic Acid and Gibberellins by Gas Chromatography/Mass Spectrometry" *Methods in Molecular Biology* **495** 53-60 (2009)

604 Okamoto M, Tanaka Y, Abrams S, Kamiya Y, Seki M, Nambara E, "High humidity induces abscisic acid 8'-hydroxylase in stomata and vasculature to regulate local and systemic abscisic acid responses in *Arabidopsis*" *Plant Physiology* **149** 825-834 (2009)

605 Okamoto M, Tsuboi Y, Chikayama E, Kikuchi J, Hirayama T, "Metabolic movement upon abscisic acid and salicylic acid combined treatments" *Plant Biotechnology* **26** 551-560 (2009)

606 Okazaki Y, Shimojima M, Sawada Y, Toyooka K, Narisawa T, Mochida K, Tanaka H, Matsuda F, Hirai A, Hirai MY, Ohta H, Saito K, "A Chloroplastic UDP-Glucose Pyrophosphorylase from *Arabidopsis* Is the Committed Enzyme for the First Step of Sulfolipid Biosynthesis" *The Plant Cell* **21** 892-909 (2009)

607 Okuda K, Chateigner-Boutin A, Nakamura T, Delannoy E, Sugita M, Myounga F, Motohashi R, Shinozaki K, Small I, Shikanai T, "Pentatricopeptide repeat proteins with the DYW motif have distinct molecular functions in RNA editing and RNA cleavage in *Arabidopsis* chloroplasts" *The Plant Cell* **21** 146-156 (2009)

608 Orlova I, Nagegowda D, Kish C, Gutensohn M, Maeda H, Varbanova M, Fridman E, Krichevsky A, Yamaguchi S, Hanada A, Kamiya Y, Citovsky V, Pichersky E, Dudareva N, "The small subunit of snapdragon geranyl diphosphate synthase modifies the chain length specificity of tobacco geranylgeranyl diphosphate synthase in planta" *The Plant Cell* **21** 4002-4017 (2009)

609 Preston J, Tatematsu K, Kanno Y, Hobo T, Kimura M, Jikumaru Y, Yano R, Kamiya Y, Nambara E, "Temporal expression patterns of hormone metabolism genes during imbibition of *Arabidopsis thaliana* seeds: a comparative study on dormant and non-dormant accessions" *Plant and Cell Physiology* **50** 1786-1800 (2009)

610 Redestig H, Fukushima A, Stenlund H, Moritz T, Arita M, Saito K, Kusano M, "Compensation for systematic cross-contribution improves normalization of mass spectrometry based metabolomics data" *Analytical Chemistry* **81** 7974-7980 (2009)

611 Rubin G, Tohge T, Matsuda F, Saito K, Scheible W, "Members of the *LBD* Family of Transcription Factors Repress Anthocyanin Synthesis and Affect Additional Nitrogen Responses in *Arabidopsis*" *The Plant Cell* **21** 3567-3584 (2009)

612 Sakakibara K, "Functional genomics of family 1 glycosyltransferases in *Arabidopsis*" *Plant Biotechnology* **26** 267-274 (2009)

613 Sakakibara K, Saito K, "Functional genomics for plant natural product biosynthesis" *Natural Product Reports* **26** 1466-1487 (2009)

614 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" *Biochemical Journal* **424** 439-448 (2009)

615 Sato K, Shin-I T, Seki M, Shinozaki K, Yoshida H, Takeda K, Yamazaki Y, Conte M, Kohara Y, "Development of 5006 full-length cDNAs in barley: A tool for accessing cereal genomics resources" *DNA Research* **16** 81-89 (2009)

616 Sato M, Mogi Y, Nishikawa T, Miyamura S, Nagumo T, Kawano S, "The dynamic surface of dividing cyanelles and ultrastructure of the region directly below the surface in *Cyanophora paradoxa*" *Planta* **229** 781-791 (2009)

617 Sawada Y, Akiyama K, Sakata A, Kuwahara A, Otsuki H, Sakurai T, Saito K, Hirai MY, "Widely Targeted Metabolomics Based on Large-Scale MS/MS Data for Elucidating Metabolite Accumulation Patterns in Plants" *Plant and Cell Physiology* **50** 37-47 (2009)

618 Sawada Y, Kuwahara A, Nagano M, Narisawa T, Sakata A, Saito K, Hirai MY, "Omics-based approaches to methionine side chain elongation in *Arabidopsis*: characterization of the genes encoding methylthioalkylmalate isomerase and methylthioalkylmalate dehydrogenase" *Plant Cell Physiology* **50** 1181-1190 (2009)

619 Sawada Y, Toyooka K, Kuwahara A, Sakata A, Nagano M, Saito K, Hirai MY, "Arabidopsis Bile Acid:Sodium Symporter Family Protein 5 Is Involved in Methionine-derived Glucosinolate Biosynthesis" *Plant Cell Physiology* **50** 1579-1586 (2009)

620 Seki M, Kamiya A, Carninci P, Hayashizaki Y, Shinozaki K, "Generation of full-length cDNA libraries: focus on plants" *Methods in Molecular Biology* **533** 49-68 (2009)

621 Seki M, Shinozaki K, "Functional genomics using RIKEN *Arabidopsis thaliana* full-length cDNAs" *Journal of Plant Research* **122** 355-366 (2009)

622 Shinozaki K, Sakakibara H, "Omics and bioinformatics: an essential toolbox for systems analyses of plant functions beyond 2010" *Plant and Cell Physiology* **50** 1177-1180 (2009)

623 Shirasu K, "The HSP90-SGT1 Chaperone Complex for NLR Immune Sensors" *Annual Review of Plant Biology* **60** 139-164 (2009)

624 Shoji T, Inai K, Yazaki Y, Sato Y, Takase H, Shitan N, Yazaki K, Goto Y, Toyooka K, Matsuoka K, Hashimoto T, "Multidrug and Toxic Compound Extrusion-Type Transporters Implicated in Vacuolar Sequestration of Nicotine in Tobacco Roots" *Plant Physiology* **149** 708-718 (2009)

625 Sirikantaramas S, Yamazaki M, Saito K, "A survival strategy:

The coevolution of the camptothecin biosynthetic pathway and self-resistance mechanism" *Phytochemistry* **70** 1894-1898 (2009)

626 Sudo H, Seki H, Sakurai N, Suzuki H, Shibata D, Toyoda A, Totoki Y, Sakaki Y, Iida O, Shibata T, Kojima M, Muranaka T, Saito K, "Expressed sequence tags from rhizomes of *Glycyrrhiza uralensis*" *Plant Biotechnology* **26** 105-107 (2009)

627 Sugawara S, Hishiyama S, Jikumaru Y, Hanada A, Nishimura T, Koshiha T, Zhao Y, Kamiya Y, Kasahara H, "Biochemical analyses of indole-3-acetaldoxime-dependent auxin biosynthesis in *Arabidopsis*" *Proceedings of the National Academy of Sciences of the United States of America* **106** 5430-5435 (2009)

628 Sugita M, Nakano K, Sato M, Toyooka K, Numata O, "The roles of actin cytoskeleton and microtubules for membrane recycling of a food vacuole in *Tetrahymena thermophila*" *Cell Motility and the Cytoskeleton* **66** 371-377 (2009)

629 Suzuki M, Nakagawa S, Kamide Y, Kobayashi K, Ohyama K, Hashinokuchi H, Kiuchi R, Saito K, Muranaka T, Nagata N, "Complete blockage of the mevalonate pathway results in male gametophyte lethality" *Journal of Experimental Botany* **60** 2055-2064 (2009)

630 Takahashi H, kawazoe M, Wada M, Hirai A, Nakamura K, Md. Altaf-UI A, Sawada Y, Hirai MY, Kanaya S, "KNAPSAcK gene classification system for *Arabidopsis thaliana*: Comparative genomic analysis of unicellular to seed plants" *Plant Biotechnology* **26** 509-516 (2009)

631 Takahashi H, Nozawa A, Seki M, Shinozaki K, Endo Y, Sawasaki T, "A simple and high-sensitivity method for analysis of ubiquitination and polyubiquitination based on wheat cell-free protein synthesis" *BMC Plant Biology* **9** 1-11 (2009)

632 Takemoto K, Arita M, "Heterogeneous distribution of metabolites across plant species" *Physica A* **388** 2771-2780 (2009)

633 Takeuchi M, Kawahata H, Gupta L, Itouga M, Sakakibara H, Ohta H, Komai T, Ono Y, "Chemistry of fly ash and cyclone ash leachate from waste materials and effects of ash leachates on bacterial growth, nitrogen-transformation activity, and metal accumulation" *Journal of Hazardous Materials* **165** 967-973 (2009)

634 Titapiwatanakun B, Blakeslee J, Bandyopadhyay A, Yang H, Mravec J, Sauer M, Cheng Y, Adamec J, Nagashima A, Geisler M, Sakai T, Friml J, Peer W, Murphy A, "ABCB19/PGP19 stabilises PIN1 in membrane microdomains in *Arabidopsis*" *The Plant Journal* **57** 27-44 (2009)

635 Tojo T, Tsuda K, Yoshizumi T, Ikeda A, Yamaguchi J, Matsui M, Yamazaki K, "Arabidopsis MBF1s control leaf cell cycle and its expansion" *Plant Cell Physiology* **50** 254-264 (2009)

636 Tominaga R, Iwata M, Sugiyama J, Kotake T, Ishida T, Yokoyama R, Nishitani K, Okada K, Wada T, "The GLABRA2 homeodomain protein directly regulates *CESA5* and *XTH17* gene expression in *Arabidopsis* roots" *The Plant Journal* **60** 564-574 (2009)

637 Toyooka K, Goto Y, Asatsuma S, Koizumi M, Mitsui T, Matsuoka K, "A mobile secretory vesicle cluster involved in mass transport from the Golgi to the plant cell exterior" *The Plant Cell* **21** 1212-1229 (2009)

638 Toyooka K, Matsuoka K, "Exo- and endocytotic trafficking of SCAMP2" *Plant Signaling & Behavior* **4** 1196-1198 (2009)

639 Tran LS, Quach TN, Guttikonda SK, Aldrich DL, Kumar R, Neelakandan A, Valliyodan B, Nguyen HT, "Molecular characterization of stress-inducible *GmNAC* genes in soybean" *Molecular Genetics and Genomics* **281** 647-664 (2009)

640 Tsunekawa K, Shijuku T, Hayashimoto M, Kojima Y, Onai K, Morishita M, Ishiura M, Kuroda T, Nakamura T, Kobayashi H, Sato M, Toyooka K, Matsuoka K, Omata T, Uozumi N, "Identification and characterization of the NA⁺/H⁺ antiporter NHAS3 from the thylakoid membrane of *Synechocystis* sp. PCC 6803" *The Journal of Biological Chemistry* **284** 16513-16521 (2009)

641 Tsutsui T, Kato W, Asada Y, Sako K, Sato T, Sonoda Y, Kidokoro S, Yamaguchi-Shinozaki K, Tamaoki M, Arakawa K, Ichikawa T, Nakazawa M, Seki M, Shinozaki K, Matsui M, Ikeda A, Yamaguchi J, "DEAR1, a transcriptional repressor of DREB protein that mediates plant defense and freezing stress responses in *Arabidopsis*" *Journal of Plant Research* **122** 633-643 (2009)

642 Uchida H, Yamashita H, Kajiwara M, Ohyama K, Nakayachi O, Sugiyama R, Yamato K, Muranaka T, Fukuzawa H, Takemura M, Ohyama K, "Cloning and characterization of a squalene synthase gene from a petroleum plant, *Euphorbia tirucalli* L." *Planta* **229** 1243-1252 (2009)

643 Umezawa T, Sugiyama N, Mizoguchi M, Hayashi S, Myounga F, Yamaguchi-Shinozaki K, Ishihama Y, Hirayama T, Shinozaki K, "Type 2C protein phosphatases directly regulate abscisic acid-activated protein kinases in *Arabidopsis*" *Proceedings of the National Academy of Sciences of the United States of America* **106** 17588-17593 (2009)

644 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* **57** 1065-1078 (2009)

645 Yamamoto Y, Yoshitsugu T, Sakurai T, Seki M, Shinozaki K, Obokata J, "Heterogeneity of *Arabidopsis* core promoters revealed by high-density TSS analysis" *The Plant Journal* **60** 350-362 (2009)

646 Yano R, Kanno Y, Jikumaru Y, Nakabayashi K, Kamiya Y, Nambara E, "CHOTTO1, a putative double APETALA2 repeat transcription factor, is involved in abscisic acid-mediated repression of gibberellin biosynthesis during seed germination in *Arabidopsis*" *Plant Physiology* **151** 641-654 (2009)

647 Yokotani N, Ichikawa T, Kondou Y, Matsui M, Hirochika H, Iwabuchi M, Oda K, "Overexpression of a rice gene encoding a small C2 domain protein OsSMCP1 increases tolerance to abiotic and biotic stresses in transgenic *Arabidopsis*" *Plant Molecular Biology* **71** 391-402 (2009)

648 Yoshida S, Shirasu K, "Multiple layers of incompatibility to the parasitic witchweed, *Striga hermonthica*" *New Phytologist* **183** 180-189 (2009)

649 Yoshida Y, Sano R, Wada T, Takabayashi J, Okada K, "Jasmonic acid control of GLABRA3 links inducible defense and trichome patterning in *Arabidopsis*" *Development* **136** 1039-1048 (2009)

650 Yoshimoto K, Jikumaru Y, Kamiya Y, Kusano M, Consonni. C, Panstruga. R, Ohsumi. Y, Shirasu K, "Autophagy negatively regulates cell death by controlling NPR1-dependent salicylic acid signaling during senescence and the innate immune response in *Arabidopsis*" *The Plant Cell* **21** 2914-2927 (2009)

651 Yuan L, Graff L, Loque D, Kojima S, Tsuchiya Y, Takahashi H, von Wiren N, "AtAMT1;4, a Pollen-Specific High-Affinity Ammonium Transporter of the Plasma Membrane in Arabidopsis" *Plant Cell Physiology* **50** 13-25 (2009)

652 Zourelidou M, Muller I, Willige B, Nill C, Jikumaru Y, Li H, Schwechheimer C, "The polarly localized D6 PROTEIN KINASE is required for efficient auxin transport in *Arabidopsis thaliana*" *Development* **136** 627-636 (2009)

653 Albinsky D, Sawada Y, Kuwahara A, Nagano M, Hirai A, Saito K, Hirai MY, "Widely targeted metabolomics and coexpression analysis as tools to identify genes involved in the side-chain elongation steps of aliphatic glucosinolate biosynthesis" *Amino Acids* **39** 1067-1075 (2010)

654 Ayele B, Magnus V, Mihaljevic S, Prebeg T, Coz-Rakovac R, Ozga J, Reinecke D, Mander L, Kamiya Y, Yamaguchi S, Salopek-Sondi B, "Endogenous gibberellin profile during Christmas rose (*Helleborus niger* L.) flower and fruit development" *Journal of Plant Growth Regulation* **29** 194-209 (2010)

655 Baek D, Pathange P, Chung JS, Jiang J, Gao L, Oikawa A, Hirai MY, Saito K, Pare PW, Shi H, "A stress-inducible sulphotransferase sulphonates salicylic acid and confers pathogen resistance in *Arabidopsis*" *Plant, Cell and Environment* **33** 1383-1392 (2010)

656 Bidadi H, Yamaguchi S, Asahina M, Satoh S, "Effects of shoot-applied gibberellin/gibberellin-biosynthesis inhibitors on root growth and expression of gibberellin biosynthesis genes in *Arabidopsis thaliana*" *Plant Root* **4** 4-11 (2010)

657 Chikayama E, Kurotani A, Tanaka T, Yabuki T, Miyazaki S, Yokoyama S, Kuroda Y, "Mathematical Model for Empirically Optimizing Large Scale Production of Soluble Protein Domains" *BMC Bioinformatics* **11** 1-9 (2010)

658 Chikayama E, Sekiyama Y, Okamoto M, Nakanishi Y, Tsuboi Y, Akiyama K, Saito K, Shinozaki K, Kikuchi J, "Statistical indices for simultaneous large-scale metabolite detections for a single NMR spectrum" *Analytical Chemistry* **82** 1653-1658 (2010)

659 Choi J, Huh S, Kojima M, Sakakibara H, Paek K, Hwang I, "The cytokinin-activated transcription factor ARR2 promotes plant immunity via TGA3/NPR1-dependent salicylic acid signaling in *Arabidopsis*" *Developmental Cell* **19** 284-295 (2010)

660 Date Y, Nakanishi Y, Fukuda S, Kato T, Tsuneda S, Ohno H, Kikuchi J, "New monitoring approach for metabolic dynamics in microbial ecosystems using stable-isotope-labeling technologies" *Journal of Bioscience and Bioengineering* **110** 87-93 (2010)

661 Fukazawa J, Nakata M, Ito T, Yamaguchi S, Takahashi Y, "The transcription factor R5G regulates negative feedback of *Nt-GA20ox1* encoding GA 20-oxidase" *The Plant Journal* **62** 1035-1045 (2010)

662 Gonzalez N, De Bodt S, Sulpice R, Jikumaru Y, Chae E, Dhondt S, Van Daele T, De Milde L, Weigel D, Kamiya Y, Stitt M, Beemster G, Inze D, "Increased leaf size: Different means to an end" *Plant Physiology* **153** 1261-1279 (2010)

663 Gutierrez-Gonzalez JJ, Guttikonda SK, Tran LS, Aldrich DL, Zhong R, Yu O, Nguyen HT, Sleper DA, "Differential Expression of Isoflavone Biosynthetic Genes in Soybean During Water Deficits" *Plant and Cell Physiology* **51** 936-948 (2010)

664 Hadiarto T, Tran LS, "Progress studies of drought-responsive genes in rice" *Plant Cell Reports* **30** 297-310 (2010)

665 Hanada K, Akiyama K, Sakurai T, Toyoda T, Shinozaki K, Shiu S, "sORF finder: a program package to identify small open reading frames (sORFs) with high coding potential" *Bioinformatics* **26** 399-400 (2010)

666 Hasegawa Y, Arita M, "Bistable Stochastic Processes in the *q*-Exponential Family" *Physica A* **389** 4450-4461 (2010)

667 Hirai MY, Sawada Y, Kanaya S, Kuromori T, Kobayashi M, Klausnitzer R, Hanada K, Akiyama K, Sakurai T, Saito K, Shinozaki K, "Toward genome-wide metabolotyping and elucidation of metabolic system: metabolic profiling of large-scale bioresources" *Journal of Plant Research* **123** 291-298 (2010)

668 Hirai T, Sato M, Toyooka K, Sun H, Yano m, Ezura H, "Miraculin, a taste-modifying protein is secreted into intercellular spaces in plant cells" *Journal of Plant Physiology* **167** 209-215 (2010)

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

670 Horai H, Arita M, Kanaya S, Nihei Y, Ikeda T, Suwa K, Ojima Y, Tanaka K, Tanaka S, Aoshima K, Oda Y, Kakazu Y, Kusano M, Tohge T, Matsuda F, Sawada Y, Hirai MY, Nakanishi H, Ikeda K, Akimoto N, Maoka T, Takahashi H, Ara T, Sakurai N, Suzuki H, Shibata D, Neumann S, Iida T, Tanaka K, Funatsu K, Matsuura F, Soga T, Taguchi R, Saito K, Nishioka T, "MassBank: a public repository for sharing mass spectral data for life sciences" *Journal of Mass Spectrometry* **45** 703-714 (2010)

671 Hu Z, Yan H, Yang J, Yamaguchi S, Maekawa M, Takamure I, Tsutsumi N, Kyozuka J, Nakazono M, "Strigolactones negatively regulate mesocotyl elongation in rice during germination and growth in darkness" *Plant Cell Physiology* **51** 1136-1142 (2010)

672 Ishida T, Adachi S, Yoshimura M, Shimizu K, Umeda M, Sugimoto K, "Auxin modulates the transition from the mitotic cycle to the endocycle in *Arabidopsis*" *Development* **137** 63-71 (2010)

673 Ishii T, Soeno K, Asami T, Fujioka S, Shimada Y, "Arabidopsis seedlings Over-Accumulated Indole-3-acetic acid in response to Aminoxyacetic acid" *Bioscience Biotechnology and Biochemistry* **74** 2345-2347 (2010)

674 Ito S, Kitahata N, Umehara M, Hanada A, Kato A, Ueno K, Mashiguchi K, Kyozuka J, Yoneyama K, Yamaguchi S, Asami T, "A new lead chemical for strigolactone biosynthesis inhibitors" *Plant and Cell Physiology* **51** 1143-1150 (2010)

675 Ito T, Nakata M, Fukazawa J, Ishida S, Takahashi Y, "Alteration of Substrate Specificity: The Variable N-Terminal Domain of Tobacco Ca²⁺-Dependent Protein Kinase Is Important for Substrate Recognition" *The Plant Cell* **22** 1592-1604 (2010)

676 Jiang C, Shimono M, Sugano S, Kojima M, Yazawa K, Yoshida R, Inoue H, Hayashi N, Sakakibara H, Takatsuji H, "Abscisic acid interacts antagonistically with salicylic acid signaling pathway in rice-magnaporthe grisea interaction" *Molecular Plant-Microbe Interactions* **23** 791-798 (2010)

677 Kadota Y, Shirasu K, Guerois R, "NLR sensors meet at the SGT1-HSP90 crossroad" *Trends in Biochemical Sciences* **35** 199-207 (2010)

678 Kanno Y, Jikumaru Y, Hanada A, Nambara E, Abrams S, Kamiya Y, Seo M, "Comprehensive hormone profiling in developing arabidopsis seeds: examination of the site of ABA biosynthesis, ABA transport and hormone interactions" *Plant and Cell Physiology* **51** 1988-2001 (2010)

679 Kasajima I, Ide Y, Hirai MY, Fujiwara T, "WRKY6 is involved in the response to boron deficiency in *Arabidopsis thaliana*" *Physiologia Plantarum* **139** 80-92 (2010)

680 Kim J, To T, Nishioka T, Seki M, "Chromatin regulation functions in plant abiotic stress responses" *Plant, Cell and Environment* **33** 604-611 (2010)

681 Kitamura S, Matsuda F, Tohge T, Sakakibara K, Yamazaki M, Saito K, Narumi I, "Metabolic profiling and cytological analysis of proanthocyanidins in immature seeds of *Arabidopsis thaliana* flavonoid accumulation mutants" *The Plant Journal* **62** 549-59 (2010)

682 Kondou Y, Higuchi M, Matsui M, "High-throughput characterization of plant gene functions by using gain-of-function technology" *Annual review of plant biology* **61** 373-393 (2010)

683 Kozuka T, Kobayashi J, Horiguchi G, Demura T, Sakakibara H, Tsukaya H, Nagatani A, "Involvement of auxin and brassinosteroid in the regulation of petiole elongation under the shade" *Plant Physiology* **153** 1608-1618 (2010)

684 Kudo T, Kiba T, Sakakibara H, "Metabolism and long-distance translocation of cytokinins" *Journal of Integrative Plant Biology (Acta Botanica Sinica)* **52** 53-60 (2010)

685 Kuromori T, Miyaji T, Yabuuchi H, Shimizu H, Sugimoto E, Kamiya A, Moriyama Y, Shinozaki K, "ABC transporter AtABCG25 is involved in abscisic acid transport and responses" *Proceedings of the National Academy of Sciences of the United States of America* **107** 2361-2366 (2010)

686 Kuromori T, Shinozaki K, "ABA transport factors found in Arabidopsis ABC transporters" *Plant Signaling & Behavior* **5** 1124-1126 (2010)

687 Kurotani A, Takagi T, Toyama M, Shirouzu M, Yokoyama S, Fukami y, Tokmakov A, "Comprehensive bioinformatics analysis of cell-free protein synthesis: identification of multiple protein properties that correlate with successful expression" *The FASEB Journal* **24** 1095-1104 (2010)

688 Kusano H, She K, Koizumi K, Yamakawa H, Hakata M, Imamura T, Fukuda M, Naito N, Tsurumaki Y, Yaeshima M, Tsuge T, Matsumoto K, kudoh M, Itoh E, Kikuchi S, Kishimoto N, Yazaki J, Ando T, Yano M, Aoyama T, Sasaki T, Satoh H, Shimada H, "A Novel Factor *FLOURY ENDOSPERM2* Is Involved in Regulation of Rice Grain Size and Starch Quality" *The Plant Cell* **22** 3280-3294 (2010)

689 Kusano M, Fukushima A, Redestig H, Kobayashi M, Otsuki H, Onouchi H, Naito S, Hirai MY, Saito K, "Comparative metabolomics charts the impact of genotype-dependent methionine accumulation in *Arabidopsis thaliana*" *Amino Acids* **39** 1013-1021 (2010)

690 Kwon S, Joo Cho H, Hee Jung J, Yoshimoto K, Shirasu K, Prk O, "The Rab GTPase RabG3b functions in autophagy and contributes to tracheary element differentiation in Arabidopsis" *The Plant Journal* **64** 151-164 (2010)

691 Le DT, Choi JD, Tran LS, "Amino acids conferring herbicide resistance in tobacco acetohydroxyacid synthase" *GM Crops* **1** 62-67 (2010)

692 Le DT, Netsu O, Uehara-Ichiki T, Shimizu T, Choi I, Omura T, Sasya T, "Molecular detection of nine rice viruses by a reverse-transcription loop-mediated isothermal amplification assay" *Journal of Virological Methods* **170** 90-93 (2010)

693 Lee G, Jeon E, Kim W, Le DT, Yoo J, Chong C, "Evaluation of a rapid diagnostic test, NanoSign® Influenza A/B Antigen, for detection of the 2009 pandemic influenza A/H1N1 viruses" *Virology Journal* **7** 244 (2010)

694 Lohmann D, Stacey N, Breuninger H, Jikumaru Y, Muller D, Sicard A, Leyser O, Yamaguchi S, Lenhard M, "SLOW MOTION is required for within-plant auxin homeostasis and normal timing of lateral organ initiation at the shoot meristem in *Arabidopsis*" *The Plant Cell* **22** 335-348 (2010)

695 Mano Y, Nemoto K, Suzuki M, Seki H, Fujii I, Muranaka T, "The *AMI1* gene family: Indole-3-acetamide hydrolase functions in auxin biosynthesis in plants" *Journal of Experimental Botany* **61** 25-32 (2010)

696 Maruyama A, Hirai MY, Funada S, Fueki S, "Exogenous application of 5-aminolevulinic acid increases the transcript levels of sulfur transport and assimilatory genes, sulfate uptake, and cysteine and glutathione contents in *Arabidopsis thaliana*" *Soil Science and Plant Nutrition* **56** 281-288 (2010)

697 Masumoto C, Miyazawa S, Ohkawa H, Fukuda T, Taniguchi Y, Murayama S, Kusano M, Saito K, Fukayama H, Miyao M, "Phosphoenolpyruvate carboxylase intrinsically located in the chloroplast of rice plays a crucial role in ammonium assimilation" *Proceedings of the National Academy of Sciences of the United States of America* **107** 5226-5231 (2010)

698 Matsui A, Ishida J, Morosawa T, Okamoto M, Kim J, Kurihara Y, Kawashima M, Tanaka M, To T, Nakaminami K, Kaminuma E, Endo T, Mochizuki Y, Kawaguchi S, Kobayashi N, Shinozaki K, Toyoda T, Seki M, "Arabidopsis tiling array analysis to identify the stress-responsive genes" *Methods in Molecular Biology* **639** 141-155 (2010)

699 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" *Molecular Genetics and Genomics* **283** 185-196 (2010)

700 Minakuchi K, Kameoka H, Yasuno N, Umehara M, Le L, Kobayashi K, Hanada A, Ueno K, Asami T, Yamaguchi S, Kyozuka J, "FINE CULM1 (*FC1*) works downstream of strigolactones to

inhibit the outgrowth of axillary buds in rice" *Plant and Cell Physiology* **51** 1127-1135 (2010)

701 Mitsuda N, Ikeda M, Takada S, Takiguchi Y, Kondou Y, Yoshizumi T, Fujita M, Shinozaki K, Matsui M, Takagi-Ohme M, "Efficient yeast one-/two-hybrid screening using a library composed only of transcription factors in *Arabidopsis thaliana*" *Plant and Cell Physiology* **51** 2145-2151 (2010)

702 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 and Cell Physiology* **51** 842-847 (2010)

703 Mochida K, Yoshida T, Sakurai T, Shinozaki K, Shinozaki K, Tran LS, "LegumeTFDB: an integrative database of *Glycine max*, *Lotus japonicus* and *Medicago truncatula* transcription factors" *Bioinformatics* **26** 290-291 (2010)

704 Mosher S, Moeder W, Nishimura N, Jikumaru Y, Joo S, Urquhart W, Klessig D, Kim S, Nambara E, Yoshioka K, "The lesion-mimic mutant *cpr22* shows alterations in abscisic acid signaling and abscisic acid insensitivity in a salicylic acid-dependent manner" *Plant Physiology* **152** 1901-1913 (2010)

705 Myouga F, Akiyama K, Motohashi R, Kuromori T, Ito T, Iizumi H, Ryusui R, Sakurai T, Shinozaki K, "The Chloroplast Function Database: a large-scale collection of Arabidopsis *Ds/Spm*- or T-DNA-tagged homozygous lines for nuclear-encoded chloroplast proteins, and their systematic phenotype analysis" *The Plant Journal* **61** 529-542 (2010)

706 Nakabayashi R, Yamazaki M, Saito K, "A polyhedral approach for understanding flavonoid biosynthesis in Arabidopsis" *New Biotechnology* **27** 829-836 (2010)

707 Nakagami H, Sugiyama N, Mochida K, Daudi A, Yoshida Y, Toyoda T, Tomita M, Ishihama Y, Shirasu K, "Large-scale comparative phosphoproteomics identifies conserved phosphorylation sites in plants" *Plant Physiology* **153** 1161-1174 (2010)

708 Nakanishi H, Shoji R, Itouga M, Sakakibara H, "Application and comparison of two biotic ligand models predicting copper toxicity and accumulation in heavy metal tolerant moss" *Journal of Water and Environment Technology* **8** 339-345 (2010)

709 Nambara E, Okamoto M, Tatematsu K, Yano R, Seo M, Kamiya Y, "Abscisic acid and the control of seed dormancy and germination" *Seed Science Research* **20** 55-67 (2010)

710 Neelakandan AK, Nguyen HT, Kumar R, Tran LS, Guttikonda SK, Quach TN, Aldrich DL, Nes WD, Nguyen HT, "Molecular characterization and functional analysis of *Glycine max sterol methyl transferase 2* genes involved in plant membrane sterol biosynthesis" *Plant Molecular Biology* **74** 503-518 (2010)

711 Nishiyama R, Ishii K, Kifune E, Kazama Y, Nishihara K, Matsunaga S, Shinozaki K, Kawano S, "Sex chromosome evolution revealed by physical mapping of SIAP3X/Y in the dioecious plant *Silene latifolia*" *Cytologia* **75** 319-325 (2010)

712 Nishiyama Y, Yun C, Matsuda F, Saito K, Tozawa Y, "Expression of bacterial tyrosine ammonia-lyase creates a novel *p*-coumaric acid pathway in the biosynthesis of phenylpropanoids in Arabidopsis" *Planta* **232** 209-218 (2010)

713 Ogata Y, Sakurai N, Suzuki H, Aoki K, Saito K, Shibata D, "The prediction of local modular structures in a co-expression network based on gene expression datasets" *Genome Informatics* **23** 117-127 (2010)

714 Ohkama-Ohtsu N, Sekimoto Y, Oikawa A, Jikumaru Y, Shinoda S, Inoue E, Kamide Y, Yokoyama T, Hirai MY, Shirasu K, Kamiya Y, Oliver D, Saito K, "12-Oxo-Phytodienoic Acid-Glutathione Conjugate is Transported into the Vacuole in Arabidopsis" *Plant and Cell Physiology* **52** 205-209 (2010)

715 Okamoto M, Tatematsu K, Matsui A, Morosawa T, Ishida J, Tanaka M, Endo T, Mochizuki Y, Toyoda T, Kamiya Y, Shinozaki K, Nambara E, Seki M, "Genome-wide analysis of endogenous abscisic acid-mediated transcription in dry and imbibed seeds of Arabidopsis using tiling arrays" *The Plant Journal* **62** 39-51 (2010)

716 O'Neill D, Davidson S, Clarke V, Yamauchi Y, Yamaguchi S, Kamiya Y, Reid J, Ross J, "Regulation of the gibberellin pathway by auxin and DELLA proteins" *Planta* **232** 1141-1149 (2010)

717 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*" *The Journal of Biological Chemistry* **285** 9190-9201 (2010)

718 Redestig H, Kusano M, Fukushima A, Matsuda F, Saito K, Arita M, "Consolidating metabolite identifiers to enable contextual and multi-platform metabolomics data analysis" *BMC Bioinformatics* **11** 214 (2010)

719 Rong J, Janson S, Ono M, Umehara M, Vrieling K, "Historical and contemporary gene dispersal in wild carrot (*Daucus carota* ssp. *carota*) populations" *Annals of Botany* **106** 285-296 (2010)

720 Saito K, Matsuda F, "Metabolomics for functional genomics, systems biology, and biotechnology" *Annual Review of Plant Biology* **61** 463-489 (2010)

721 Sasaki T, Mori I, Furuichi T, Munemasa S, Toyooka K, Matsuoaka K, Murata Y, Yamamoto Y, "Closing plant stomata requires a homolog of an aluminum-activated malate transporter" *Plant and Cell Physiology* **51** 354-365 (2010)

722 Sato A, Toyooka K, Okamoto T, "Asymmetric cell division of rice zygotes located in embryo sac and produced by in vitro fertilization" *Sexual Plant Reproduction* **23** 211-217 (2010)

723 Schmutz J, Cannon S, Schlueter J, Ma J, Mitros T, Nelson W, Hyten D, Song Q, Thelen J, Cheng J, Xu D, Hellsten U, May G, Yu Y, Sakurai T, Umezawa T, Bhattacharyya M, Sandhu D, Valliyodan B, Lindquist E, Peto M, Grant D, Shu S, Goodstein D, Barry K, Futrell-Griggs M, Abernathy B, Du J, Tian Z, Zhu L, Gill N, Joshi T, Libault M, Sethuraman A, Zhang X, Shinozaki K, Nguyen H, Wing R, Cregan P, Specht J, Grimwood J, Rokhsar D, Stacey G, Shoemaker R, Jackson S, "Genome sequence of the palaeopolyploid soybean" *Nature* **463** 178-183 (2010)

724 Sekiyama Y, Chikayama E, Kikuchi J, "Profiling polar and semi-polar plant metabolites throughout extraction processes using a combined solution-state and High-Resolution Magic Angle Spinning NMR approach" *Analytical Chemistry* **82** 1643-1652 (2010)

725 Shinozaki K, "The ICAR201 for development of Arabidopsis research beyond 2010" *Journal of Plant Research* **123** 265-266 (2010)

726 Singh D, Filardo F, Storey R, Jermakow A, Yamaguchi S, Swain S, "Overexpression of a gibberellin inactivation gene alters seed development, *KNOX* gene expression, and plant development in Arabidopsis" *Physiologia Plantarum* **138** 74-90 (2010)

727 Son O, Hur Y, Kim Y, Lee H, Kim S, Kim M, Nam K, Lee M, Kim B, Park J, Park J, Lee S, Hanada A, Yamaguchi S, Lee I, Kim S, Yun D, Soderman E, Cheon C, "ATHB12, an ABA-inducible homeodomain-leucine zipper (HD-Zip) protein of Arabidopsis, negatively regulates the growth of the inflorescence stem by decreasing the expression of a Gibberellin 20-oxidase gene" *Plant Cell Physiology* **51** 1537-1547 (2010)

728 Suetsugu S, Toyooka K, Senju Y, "Subcellular membrane curvature mediated by the BAR domain superfamily proteins" *Seminars in Cell & Developmental Biology* **21** 340-349 (2010)

729 Suzuki M, Kusano M, Takahashi H, Tsuchiya Y, Hayashi N, Kobayashi M, Ichikawa T, Matsui M, Hirochika H, Saito K, "Rice-*Arabidopsis* FOX line screening with FT-NIR-based fingerprinting for GC-TOF/MS-based metabolite profiling" *Metabolomics* **6** 137-145 (2010)

730 Taji T, Komatsu K, Katori T, Kawasaki Y, Sakata Y, Tanaka S, Kobayashi M, Toyoda A, Seki M, Shinozaki K, "Comparative genomic analysis of 1047 completely sequenced cDNAs from an Arabidopsis-related model halophyte, *Thellungiella halophila*" *BMC Plant Biology* **10** 261 (2010)

731 Takahashi N, Quimbaya M, Schubert V, Lammens T, Vandepoele K, Schubert I, Matsui M, Inze D, Berx G, De Veylder L, "The MCM-binding protein ETG1 aids sister chromatid cohesion required for postreplicative homologous recombination repair" *PLoS Genetics* **6** e1000817 (2010)

732 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" *Molecular Genetics and Genomics* **284** 173-183 (2010)

733 Takemoto K, Arita M, "Nested structure acquired through simple evolutionary process" *Journal of Theoretical Biology* **264** 782-786 (2010)

734 Tameling W, Nooijen C, Ludwig N, Boter M, Slootweg E, Goverse A, Shirasu K, Joosten M, "RanGAP2 Mediates Nucleocytoplasmic Partitioning of the NB-LRR Immune Receptor Rx in the Solanaceae, Thereby Dictating Rx Function" *The Plant Cell* **22** 4176-4194 (2010)

735 Tanaka R, Rothbart M, Oka S, Takabayashi A, Takahashi K, Shibata M, Myouga F, Motohashi R, Shinozaki K, Grimm B, Tanaka A, "LIL3, a light-harvesting-like protein, plays an essential role in chlorophyll and tocopherol biosynthesis" *Proceedings of the National Academy of Sciences of the United States of America* **107** 16721-16725 (2010)

736 Tran LS, Mochida K, "A platform for functional prediction and comparative analyses of transcription factors of legumes and beyond" *Plant Signaling & Behavior* **5** 550-552 (2010)

737 Tran LS, Mochida K, "Functional genomics of soybean for improvement of productivity in adverse conditions" *Functional & Integrative Genomics* **10** 447-462 (2010)

738 Tran LS, Mochida K, "Identification and prediction of abiotic stress responsive transcription factors involved in abiotic stress signaling in soybean" *Plant Signaling & Behavior* **5** 1-3 (2010)

739 Tran LS, Nishiyama R, Shinozaki-Yamaguchi K, Shinozaki K, "Potential utilization of NAC transcription factors to enhance abiotic stress tolerance in plants by biotechnological approach" *GM Crops* **1** 1-8 (2010)

740 Tran LS, Shinozaki K, Yamaguchi-Shinozaki K, "Role of cytokinin responsive two-component system in ABA and osmotic stress signalings" *Plant Signaling & Behavior* **5** 1-3 (2010)

741 Trujillo M, Shirasu K, "Ubiquitination in plant immunity" *Current Opinion in Plant Biology* **13** 402-408 (2010)

742 Tsuchiya Y, Vidaurre D, Toh S, Hanada A, Nambara E, Kamiya Y, Yamaguchi S, McCourt P, "A small-molecule screen identifies new functions for the plant hormone strigolactone" *Nature Chemical Biology* **6** 741-749 (2010)

743 Uchida H, Ohyama K, Suzuki M, Yamashita H, Muranaka T, Ohyama K, "Triterpenoid levels are reduced during *Euphorbia tirucalli* L. callus formation" *Plant Biotechnology* **27** 105-109 (2010)

744 Ueno K, Hanada A, Yamaguchi S, Asami T, "Preparation of multideuterated 5-deoxystrigol for use as an internal standard for quantitative LC/MS" *Journal of Labelled Compounds and Radiopharmaceuticals* **53** 763-766 (2010)

745 Ukaji N, Kuwabara C, Takezawa D, Seo M, Kanno Y, Arakawa K, Fujiwara S, "Endoplasmic reticulum-localized small heat shock protein that accumulates in mulberry tree (*Morus bombycis* Koidz.) during seasonal cold acclimation is responsive to abscisic acid" *Tree Physiology* **30** 502-513 (2010)

746 Umehara M, Hanada A, Magome H, Takeda N, Yamaguchi S, "Contribution of strigolactones to the inhibition of tiller bud outgrowth under phosphate deficiency in rice" *Plant and Cell Physiology* **51** 1118-1126 (2010)

747 Umezawa T, Nakashima K, Miyakawa T, Kuromori T, Tanokura M, Shinozaki K, Shinozaki K, "Molecular basis of the core regulatory network in ABA responses: sensing, signaling and transport" *Plant and Cell Physiology* **51** 1821-1839 (2010)

748 Urano K, Kurihara Y, Seki M, Shinozaki K, "'Omics' analyses of regulatory networks in plant abiotic stress responses" *Current Opinion in Plant Biology* **13** 132-138 (2010)

749 Watanabe M, Hubberten H, Saito K, Hoefgen R, "General regulatory patterns of plant mineral nutrient depletion as revealed by *serat* quadruple mutants disturbed in cysteine synthesis" *Molecular Plant* **3** 438-66 (2010)

750 Yamada K, Osakabe Y, Mizoi J, Nakashima K, Fujita Y, Shinozaki K, Shinozaki K, "Functional analysis of an *Arabidopsis thaliana* abiotic stress-inducible facilitated diffusion transporter for monosaccharides" *The Journal of Biological Chemistry* **285** 1138-1146 (2010)

751 Yamanaka T, Nakagawa Y, Mori K, Nakano M, Imamura T, Kataoka H, Terashima A, Iida K, Kojima I, Katagiri T, Shinozaki

K, Iida H, "MCA1 and MCA2 that mediate Ca²⁺ uptake have distinct and overlapping roles in *Arabidopsis*" *Plant Physiology* **152** 1284-1296 (2010)

752 Yamazaki M, Asano T, Yamazaki Y, Sirikantaramas S, Sudo H, Saito K, "Biosynthetic system of camptothecin: An anticancer plant product" *Pure and Applied Chemistry* **82** 213-218 (2010)

753 Yoshida S, Ishida J, Kamal N, Ali A, Namba S, Shirasu K, "A full-length enriched cDNA library and expressed sequence tag analysis of the parasitic weed, *Striga hermonthica*" *BMC Plant Biology* **10** 1-10 (2010)

754 Yoshida S, Maruyama S, Nozaki H, Shirasu K, "Horizontal Gene Transfer by the Parasitic Plant *Striga hermonthica*" *Science* **328** 1128 (2010)

755 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" *The Plant Journal* **61** 672-685 (2010)

756 Yoshimoto K, "Physiological roles of autophagy in plants: Does plant autophagy have a pro-death function?" *Plant Signaling & Behavior* **5** 1128 (2010)

757 Yoshimoto K, "Plant autophagy puts the brakes on cell death by controlling salicylic acid signaling" *Autophagy* **6** 192-193 (2010)

758 Yoshimoto K, Takano Y, Sakai Y, "Autophagy in plants and phytopathogens" *FEBS Letters* **584** 1350-1358 (2010)

759 Yoshimoto K, van Doorn W, "Role of chloroplasts and other plastids in ageing and death of plants and animals: a tale of Vishnu and Shiva" *Aging Research Reviews* **9** 117-130 (2010)

760 Yuguchi M, Yokouchi T, Tominaga R, Kuromori T, Shinozaki K, Okada K, Wada T, "Phenome analysis of root development in *Arabidopsis*" *Plant Biotechnology* **27** 345-347 (2010)

761 Zhang M, Kadota Y, Prodromou C, Shirasu K, Pearl L, "Structural Basis for Assembly of Hsp90-Sgt1-CHORD Protein Complexes: Implications for Chaperoning of NLR Innate Immunity Receptors" *Molecular Cell* **39** 269-281 (2010)

762 Ziaratnia S, Ohyama K, Hussein A, Muranaka T, Lall N, Kunert K, Meyer J, "Isolation and identification of a novel chlorophenol from a cell suspension culture of *Helichrysum aureonitens*" *Chemical and Pharmaceutical Bulletin* **57** 1282-1283 (2010)

763 "Metabolomics reveals comprehensive reprogramming involving two independent metabolic responses of *Arabidopsis* to UV-B light" *The Plant Journal* **67** 354-369 (2011)

764 Adachi S, Minamisawa K, Okushima Y, Inagaki S, YOSHIYAMA K, Kondou Y, Kaminuma E, Kawashima M, Toyoda T, Matsui M, Kurihara D, Matsunaga S, Umeda M, "Programmed induction of endoreduplication by DNA double-strand breaks in *Arabidopsis*" *Proceedings of the National Academy of Sciences of the United States of America* **108** 1-6 (2011)

765 Akai M, Onai K, Kusano M, Sato M, Redestig H, Toyooka K, Morishita M, Miyake H, Hazama A, Checchetto V, Szabo I, Matsuoka K, Saito K, Yasui M, Ishiura M, Uozumi N, "Plasma Membrane Aquaporin AqpZ Protein Is Essential for Glucose Metabolism during Photomixotrophic Growth of *Synechocystis* sp. PCC 6803" *The Journal of Biological Chemistry* **286** 25224-25235 (2011)

766 Ando S, Sato Y, Shigemori H, Shimizu T, Okada K, Yamane H, Jikumaru Y, Kamiya Y, Yamada K, Akimoto-Tomiyama C, Tanabe S, Nishizawa Y, Minami E, "Identification and characterization of 2'-deoxyuridine from the supernatant of conidial suspensions of rice blast fungus as an infection-promoting factor in rice plants" *Molecular Plant-Microbe Interactions* **24** 519-532 (2011)

767 Asahina M, Azuma K, PITAKSARINGKARN W, Yamazaki T, Mitsuda N, Ohme-Takagi M, Yamaguchi S, Kamiya Y, Nambara E, Okada K, Nishimura T, Koshiha T, Yokota T, Kamada H, Satoh S, "Spatially selective hormonal control of RAP2.6L and ANAC071 transcription factors involved in tissue reunion in *Arabidopsis*" *Proceedings of the National Academy of Sciences of the United States of America* **108** 16128-16132 (2011)

768 Aya K, Hiwatashi Y, Kojima M, Sakakibara H, Ueguchi-Tanaka M, Hasebe M, Matsuoka M, "The gibberellin perception system evolved to regulate a pre-existing GAMYB-mediated system during land plant evolution" *Nature Communications* **2** 1-9 (2011)

769 Azuma M, Osanai T, Tanaka K, Saito K, Hirai MY, Ikeuchi M, "A response regulator Rre37 and an RNA polymerase sigma factor SigE represent two parallel pathways to activate sugar catabolism in a cyanobacterium *Synechocystis* sp. PCC 6803" *Plant Cell Physiology* **52** 404-412 (2011)

770 Betsuyaku S, Takahashi F, Kinoshita A, Miwa H, Shinozaki K, Fukuda H, Sawa S, "Mitogen-activated protein kinase regulated by the CLAVATA receptors contributes to shoot apical meristem homeostasis" *Plant and Cell Physiology* **52** 14-29 (2011)

771 Bishopp A, Lehesranta S, Vaten A, Help H, El-showk S, Scheres B, Helariutta K, Mahonen P, Sakakibara H, Helariutta Y, "Phloem-transported cytokinin regulates polar auxin transport and maintains vascular pattern in the root meristem" *Current Biology* **21** 927-932 (2011)

772 Blair M, Fernandez A, Ishitani M, Moreta D, Seki M, Ayling S, Shinozaki K, "Construction and EST sequencing of full-length, drought stress cDNA libraries for common beans (*Phaseolus vulgaris* L.)" *BMC Plant Biology* **11** 171 (2011)

773 Bunsupa S, Okada T, Saito K, Yamazaki M, "An acyltransferase-like gene obtained by differential gene expression profiles of quinolizidine alkaloid-producing and nonproducing cultivars of *Lupinus angustifolius*" *Plant Biotechnology* **28** 89-94 (2011)

774 Choudhary S, Tran LS, "Phytosterols: Perspectives in Human Nutrition and Clinical Therapy" *Current Medicinal Chemistry* **18** 4557-4567 (2011)

775 Cramer G, Urano K, Delrot S, Pezzotti M, Shinozaki K, "Effects of abiotic stress on plants: a systems biology perspective" *BMC Plant Biology* **11** 163 (2011)

776 Cui H, hao Y, Kovtun M, Stolz V, Deng XY, Sakakibara H, Kojima M, "Genome-wide direct target analysis reveals a role for SHORT-ROOT in root vascular patterning through cytokinin homeostasis" *Plant Physiology* **157** 1221-1231 (2011)

777 Diaz C, Kusano M, Sulpice R, Araki M, Redestig H, Saito K, Stitt M, Shin R, "Determining novel functions of *Arabidopsis* 14-3-3 proteins in central metabolic processes" *BMC Systems Biology* **5** 1-12 (2011)

778 Dubouzet J, Maeda S, Sugano S, Ohtake M, Hayashi N, Ichikawa T, Kondou Y, Kuroda H, Horii Y, Matsui M, Oda K, Hirochika H, Takatsuji H, Mori M, "Screening for resistance against *Pseudomonas syringae* in rice-FOX *Arabidopsis* lines identified a putative receptor-like cytoplasmic kinase gene that confers resistance to major bacterial and fungal pathogens in *Arabidopsis* and rice" *Plant Biotechnology Journal* **9** 466-485 (2011)

779 Fernie A, Aharoni A, Willmitzer L, Stitt M, Tohge T, Kopka J, Carroll A, Saito K, Fraser P, DeLuca V, "Recommendations for reporting metabolite data" *The Plant Cell* **23** 2477-82 (2011)

780 Fujita Y, Fujita M, Shinozaki K, Shinozaki-Yamaguchi K, "ABA-mediated transcriptional regulation in response to osmotic stress in plants" *Journal of Plant Research* **124** 509-525 (2011)

781 Fukazawa J, Nakata M, Ito T, Matsushita A, Yamaguchi S, Takahashi Y, "bZIP transcription factor R5G controls the feedback regulation of *NtGA20ox1* via intracellular localization and epigenetic mechanism" *Plant Signaling & Behavior* **6** 26-28 (2011)

782 Fukui K, Ito S, Ueno K, Yamaguchi S, Kyozuka J, Asami T, "New branching inhibitors and their potential as strigolactone mimics in rice" *Bioorganic & Medicinal Chemistry Letters* **21** 4905-4908 (2011)

783 Fukushima A, Kusano M, Redestig H, Arita M, Saito K, "Metabolomic correlation-network modules in *Arabidopsis* based on a graph-clustering approach" *BMC Systems Biology* **5** 1 (2011)

784 Fukushima E, Seki H, Ohyama K, Ono E, Umemoto N, Mizutani M, Saito K, Muranaka T, "CYP716A subfamily members are multifunctional oxidases in triterpenoid biosynthesis" *Plant and Cell Physiology* **52** 2051-2061 (2011)

785 Furukawa J, Abe Y, Mizuno H, Matsuki K, Sagawa K, Kojima M, Sakakibara H, Iwai H, Satoh S, "Seasonal fluctuation of organic and inorganic components in xylem sap of *populus nigra*" *Plant Root* **5** 56-62 (2011)

786 Gallego-Giraldo L, Jikumaru Y, Kamiya Y, Tang Y, Dixon R, "Selective lignin downregulation leads to constitutive defense response expression in alfalfa (*Medicago sativa* L.)" *New Phytologist* **190** 627-639 (2011)

787 Hamasaki H, Yoshizumi T, Takahashi N, Higuchi M, Kuromori T, Imura Y, Shimada H, Matsui M, "SD3, an *Arabidopsis thaliana* Homolog of TIM21, Affects Intracellular ATP Levels and Seedling Development" *Molecular Plant* **5** 461-471 (2011)

788 Hanada K, Hase T, Toyoda T, Shinozaki K, Okamoto M, "Origin and evolution of genes related to ABA metabolism and its signaling pathways" *Journal of Plant Research* **124** 455-465 (2011)

789 Hanada K, Sawada Y, Kuromori T, Saito K, Toyoda T, Shinozaki K, "Functional compensation of primary and secondary metabolites by duplicate genes in *Arabidopsis thaliana*" *Molecular Biology and Evolution* **28** 377-382 (2011)

790 Higuchi M, Ichikawa T, Kondou Y, Matsui K, Hasegawa Y, Kawashima M, Sonoike K, Mori M, Hirochika H, Matsui M, "Functional analysis of two isoforms of leaf-type ferredoxin-NADP⁺-oxidoreductase in rice using heterologous expression system of *Arabidopsis thaliana*" *Plant Physiology* **157** 96-108 (2011)

791 Himuro Y, Tanaka H, Hashiguchi M, Ichikawa T, Nakazawa M, Seki M, Fujita M, Shinozaki K, Matsui M, Akaishi R, Hoffmann F, "FOX-superroots of *Lotus corniculatus*, overexpressing *Arabidopsis* full-length cDNA, show stable variations in morphological traits" *Journal of Plant Physiology* **168** 181-187 (2011)

792 Honsel A, Kojima M, Haas R, Frank W, Sakakibara H, Herschbach C, Rennenberg H, "Sulphur limitation and early sulphur deficiency responses in poplar: significance of gene expression, metabolites, and plant hormones" *Journal of Experimental Botany* **63** 1873-1893 (2011)

793 Ide Y, Kusano M, Oikawa A, Fukushima A, Tomatsu H, Saito K, Hirai MY, Fujiwara T, "Effects of molybdenum deficiency and defects in molybdate transporter MOT1 on transcript accumulation and nitrogen/sulphur metabolism in *Arabidopsis thaliana*" *Journal of Experimental Botany* **62** 1483-1497 (2011)

794 Inubushi k, Sakakibara H, Kojima M, Hattori H, Okumura Y, Nimura M, Ohishi K, "Role of underground conditions in the occurrence of carnation stunting and proliferation syndrome, and relationship between the symptoms and endogenous phytohormones" *Journal of the Japanese Society for Horticultural Science* **80** 182-189 (2011)

795 Ishida J, Yoshida S, Ito M, Namba S, Shirasu K, "*Agrobacterium rhizogenes*-mediated transformation of the parasitic plant *Phtheirospermum japonicum*" *PLoS One* **6** e25802 (2011)

796 Ito S, Umehara M, Hanada A, Kitahata N, Hayase H, Yamaguchi S, Asami T, "Effects of triazole derivatives on strigolactone levels and growth retardation in rice" *PLoS One* **6** e21723 (2011)

797 Iwamoto M, Kiyota S, Hanada A, Yamaguchi S, Takano M, "The multiple contributions of phytochromes to the control of internode elongation in rice" *Plant Physiology* **157** 1187-1195 (2011)

798 Iwase A, Mitsuda N, Koyama T, Hiratsu K, Kojima M, Arai T, Inoue Y, Seki M, Sakakibara H, Sugimoto K, Ohme-Takagi M, "The AP2/ERF transcription factor WIND1 controls cell dedifferentiation in *Arabidopsis*" *Current Biology* **21** 508-514 (2011)

799 Iwase A, Ohme-Takagi M, Sugimoto K, "WIND1: A key molecular switch for plant cell dedifferentiation" *Plant Signaling & Behavior* **6** 1943-1945 (2011)

800 Izawa T, Mihara M, Suzuki Y, Gupta M, Itoh H, Nagano A, Motoyama R, Sawada Y, Yano M, Hirai MY, Makino A, Nagamura Y, "Os-GIGANTEA confers robust diurnal rhythms on the global transcriptome of rice in the field" *The Plant Cell* **23** 1741-1755 (2011)

801 Kamiya T, Yamagami M, Hirai MY, Fujiwara T, "Establishment of an *in planta* magnesium monitoring system using CAX3 promoter-luciferase in *Arabidopsis*" *Journal of Experimental Botany* **63** 355-363 (2011)

802 Katsumata T, Fukazawa J, Magome H, Jikumaru Y, Kamiya Y, Natsume M, Kawaide H, Yamaguchi S, "Involvement of the CYP78A subfamily of cytochrome P450 monooxygenases in protonema growth and gametophore formation in the moss *Physcomitrella patens*" *Bioscience Biotechnology and Biochemistry* **75** 331-336 (2011)

803 Kawashima C, Matthewman C, Huang S, Lee B, Yoshimoto N, Koprivova A, Rubio-Somoza I, Todesco M, Rathjen T, Saito K, Takahashi H, Dalmay T, Kopriva S, "Interplay of SLIM1 and miR395 in the regulation of sulfate assimilation in Arabidopsis" *The Plant Journal* **66** 863-76 (2011)

804 Kiba T, Kudo T, Kojima M, Sakakibara H, "Hormonal control of nitrogen acquisition: roles of auxin, abscisic acid, and cytokinin" *Journal of Experimental Botany* **62** 1399-1409 (2011)

805 Kikuchi J, Ogata Y, Shinozaki K, "ECOMICS: Ecosystem Trans-OMICS Tools and Methods for Complex Environmental Samples and Datasets" *Journal of Ecosystem & Ecography* **52** 001 (2011)

806 Kim J, Mizoi J, Yoshida T, Fujita Y, Nakajima J, Ohori T, Todaka D, Nakashima K, Hirayama T, Shinozaki K, Shinozaki-Yamaguchi K, "An ABRE promoter sequence is involved in osmotic stress-responsive expression of the *DREB2A* gene, which encodes a transcription factor regulating drought-inducible genes in Arabidopsis" *Plant and Cell Physiology* **52** 2136-2146 (2011)

807 Kimura K, Tran LS, Funane K, "Loss of poly- γ -glutamic Acid Synthesis of *Bacillus subtilis* (*natto*) Due to *IS4Bsu1* Translocation to *swrA* Gene" *Food Science and Technology Research* **17** 447-451 (2011)

808 Kobayashi M, Kouzu N, Inami A, Toyooka K, Konishi Y, Mat-suoka K, Matoh T, "Characterization of Arabidopsis CTP:3-deoxy-D-*manno*-2-octulosonate cytidyltransferase (CMP-KDO synthetase), the enzyme that activates KDO during rhamnogalacturonan II biosynthesis" *Plant and Cell Physiology* **52** 1832-1843 (2011)

809 Kodaira K, Qin F, Tran LS, Maruyama K, Kidokoro S, Fujita Y, Shinozaki K, Yamaguchi-Shinozaki K, "Arabidopsis Cys2/His2 Zinc-Finger Proteins AZF1 and AZF2 Negatively Regulate Abscisic Acid-Repressive and Auxin-Inducible Genes under Abiotic Stress Conditions" *Plant Physiology* **157** 742-756 (2011)

810 Kodama Y, "A bright green-colored bimolecular fluorescence complementation assay in living plant cells" *Plant Biotechnol-ogy* **28** 95-98 (2011)

811 Kodama Y, Suetsugu N, Wada M, "Novel protein-protein in-teraction family proteins involved in chloroplast movement response" *Plant Signaling & Behavior* **6** 483-490 (2011)

812 Kuromori T, Ito T, Sugimoto E, Shinozaki K, "*Arabidopsis* mutant of AtABCG26, an ABC transporter gene, is defective in pollen maturation" *Journal of Plant Physiology* **168** 2001-2005 (2011)

813 Kuromori T, Sugimoto E, Shinozaki K, "Arabidopsis mutants of AtABCG22, an ABC transporter gene, increase water transpi-ration and drought susceptibility" *The Plant Journal* **67** 885-894 (2011)

814 Kurusu T, Yamanaka T, Nakano M, Takiguchi A, Ogasawara Y, Hayashi T, Iida K, Hanamata S, Iida H, Shinozaki K, Kuchitsu K, "Involvement of the putative Ca^{2+} -permeable mechanosensi-tive channels, NtMCA1 and NtMCA2, in Ca^{2+} uptake, Ca^{2+} -de-pendent cell proliferation and mechanical stress-induced gene expression in tobacco (*Nicotiana tabacum*) BY-2 cells" *Journal of Plant Research* **125** 555-568 (2011)

815 Kusano M, Fukushima A, Redestig H, Saito K, "Metabolomic approaches toward understanding nitrogen metabolism in plants" *Journal of Experimental Botany* **62** 1439-1453 (2011)

816 Kusano M, Par J, Jonas G, Fukushima A, Michael S, Johan T, Thomas M, "Metabolite signature during short-day induced growth cessation in Populus" *Frontiers in Plant Physiology* **2** 1-11 (2011)

817 Kusano M, Redestig H, Tadayoshi H, Oikawa A, Matsuda F, Fukushima A, Arita M, Shin W, Megumu Y, Kyoko H, Hiroshi E, Saito K, "Covering chemical diversity of genetically-modified tomatoes using metabolomics for objective substantial equiv-alence assessment" *PLoS One* **6** e16989 (2011)

818 Kusano M, Tabuchi M, Fukushima A, Funayama K, Diaz C, Kobayashi M, Hayashi N, Tsuchiya Y, Takahashi H, Kamata A, Yamaya T, Saito K, "Metabolomics data reveal a crucial role of cytosolic glutamine synthetase 1;1 in coordinating metabolic balance in rice" *The Plant Journal* **66** 456-466 (2011)

819 Kusano M, Tohge T, Fukushima A, Kobayashi M, Hayashi N, Otsuki H, Kondou Y, Goto H, Kawashima M, Matsuda F, Niida R, Matsui M, Saito K, Fernie A, "Metabolomics reveals compre-hensive reprogramming involving two independent metabolic responses of Arabidopsis to UV-B light" *The Plant Journal* **67** 354-369 (2011)

820 Lackman P, Gonzalez-Guzman M, Tilleman S, Carqueijeiro I, Cuellar Perez A, Moses T, Seo M, Kanno Y, Hakkinen S, Van Montagu M, Thevelein J, Maaheimo H, Oksman-Caldentey K, Rodriguez P, Rischer H, Goossens A, "Jasmonate signaling involves the abscisic acid receptor PYL4 to regulate metabolic reprogramming in *Arabidopsis* and tobacco" *Proceedings of the National Academy of Sciences of the United States of America* **108** 5891-5896 (2011)

821 Le DT, Nishiyama R, Watanabe Y, Mochida K, Yamaguchi-Shinozaki K, Shinozaki K, Tran LS, "Genome-Wide Expression Profiling of Soybean Two-Component System Genes in Soy-bean Root and Shoot Tissues under Dehydration Stress" *DNA Research* **18** 17-29 (2011)

822 Le DT, Nishiyama R, Watanabe Y, Mochida K, Yamaguchi-Shinozaki K, Shinozaki K, Tran LS, "Genome-Wide Survey and Expression Analysis of the Plant-Specific NAC Transcription Factor Family in Soybean During Development and Dehydra-tion Stress" *DNA Research* **18** 263-276 (2011)

823 Lomin S, Sakakibara K, Romanov G, Sakakibara H, "Ligand-binding properties and subcellular localization of maize cyto-kinin receptors" *Journal of Experimental Botany* **62** 5149-5159 (2011)

824 Mashiguchi K, Tanaka K, Sakai T, Sugawara S, Kawaide H, Natsume M, Hanada A, Yaeno T, Shirasu K, Yao H, McSteen P, Zhao Y, Hayashi K, Kamiya Y, Kasahara H, "The main auxin biosynthesis pathway in *Arabidopsis*" *Proceedings of the Na-tional Academy of Sciences of the United States of America*

108 18512-18517 (2011)

825 Matsuda F, Nakabayashi R, Sawada Y, Suzuki M, Hirai MY, Kanaya S, Saito K, "Mass spectra-based framework for auto-mated structural elucidation of metabolome data to explore phytochemical diversity" *Frontiers in Plant Science* **2** 40 (2011)

826 Minamisawa N, Sato M, Cho K, Ueno H, Katsuaki T, Kajikawa M, Yamato K, Ohyama K, Toyooka K, Kim G, Horiguchi G, Takano H, Ueda T, Tsukaya H, "ANGUSTIFOLIA, a plant homo-log of CtBP/BARS, functions outside the nucleus" *The Plant Journal* **68** 788-799 (2011)

827 Mito T, Seki M, Shinozaki K, Takagi-Ohme M, Matsui K, "Gen-eration of chimeric repressors that confer salt tolerance in *Arabidopsis* and rice" *Plant Biotechnology Journal* **9** 736-746 (2011)

828 Monda K, Negi J, Iio A, Kusumi k, Kojima M, Hashimoto M, Sakakibara H, Iba K, "Environmental regulation of stomatal response in the *Arabidopsis* Cvi-0 ecotype" *Planta* **234** 555-563 (2011)

829 Nanjo Y, Maruyama K, Yasue H, Shinozaki-Yamaguchi K, Shi-nozaki K, Komatsu S, "Transcriptional responses to flooding stress in roots including hypocotyl of soybean seedlings" *Plant Molecular Biology* **77** 129-144 (2011)

830 Nemoto K, Seto T, Takahashi H, Nozawa A, Seki M, Shinozaki K, Endo Y, Sawasaki T, "Autophosphorylation profiling of Arabi-dopsis protein kinases using the cell-free system" *Phytochem-istry* **72** 1136-1144 (2011)

831 Nishimura T, Toyooka K, Sato M, Matsumoto S, Lucas M, Strnad M, Baluska F, Koshiba T, "Immunohistochemical obser-vation of indole-3-acetic acid at the IAA synthetic maize cole-optile tips" *Plant Signaling & Behavior* **6** 1-10 (2011)

832 Nishiyama R, Watanabe Y, Fujita Y, Le DT, Kojima M, Werner T, Vankova R, Yamaguchi-Shinozaki K, Shinozaki K, Kakimoto T, Sakakibara H, Schmulling T, Tran LS, "Analysis of Cytokinin Mutants and Regulation of Cytokinin Metabolic Genes Reveals Important Regulatory Roles of Cytokinins in Drought, Salt and Abscisic Acid Responses, and Abscisic Acid Biosynthesis" *The Plant Cell* **23** 2169-2183 (2011)

833 Ogawa d, Abe K, Miyao A, Kojima M, Sakakibara H, Mizutani M, Morita H, Toda Y, Hobo T, Sato Y, Hattori T, Hirochika H, Takeda S, "RSS1 regulates the cell cycle and maintains meriste-matic activity under stress conditions in rice" *Nature Commu-nications* **2** 1-11 (2011)

834 Oikawa A, Fujita N, Horie R, Saito K, Tawaraya K, "Solid-phase extraction for metabolomic analysis of high-salinity samples by capillary electrophoresis-mass spectrometry" *Journal of Separation Science* **34** 1063-1068 (2011)

835 Oikawa A, Kamide Y, Hirai MY, Saito K, "Metabolomics of a single vacuole reveals metabolic dynamism in an alga *Chara australis*" *Plant Physiology* **157** 544-551 (2011)

836 Oikawa A, Otsuka T, Jikumaru Y, Yamaguchi S, Matsuda F, Nakabayashi R, Takashina T, Isuzugawa K, Saito K, Shiratake K, "Effects of freeze-drying of samples on metabolite levels in metabolome analyses" *Journal of Separation Science* **34** 3561-3567 (2011)

837 Okamoto M, Kushiro T, Jikumaru Y, Abrams S, Kamiya Y, Seki M, Nambara E, "ABA 9'-hydroxylation is catalyzed by CYP707A in Arabidopsis" *Phytochemistry* **72** 717-722 (2011)

838 Okamoto M, Seki M, "Expression profile and 5'-terminal struc-ture of Arabidopsis antisense transcripts expressed in seeds" *Plant Signaling & Behavior* **6** 691-693 (2011)

839 Okazaki Y, Kamide Y, Hirai MY, Saito K, "Plant lipidomics based on hydrophilic interaction chromatography coupled to ion trap time-of-flight mass spectrometry" *Metabolomics* doi: 10.1007/s11306-011-0318-z (2011)

840 Osanai T, Oikawa A, Azuma M, Tanaka K, Saito K, Hirai MY, Ikeuchi M, "Genetic engineering of group 2 σ factor SigE widely activates expressions of sugar catabolic genes in *Syn-echocystis* species PCC 6803" *The Journal of Biological Chemis-try* **286** 30962-30971 (2011)

841 Ou B, Yin K, Liu S, Yan Y, Gu T, Man Jennifer H, Zhang L, Miao J, Kondou Y, Matsui M, Gu H, Qu L, "A High-Throughput Screening System for *Arabidopsis* Transcription Factors and Its Application to Med25-Dependent Transcriptional Regulation" *Molecular Plant* **4** 1-10 (2011)

842 Pei-Chi L, Pomeanz M, Jikumaru Y, Kang S, Hah C, Fujioka S, Kamiya Y, Jyan-Chyn J, "The Arabidopsis tandem zinc finger protein AtTZF1 affects ABA- and GA-mediated growth, stress and gene expression responses" *The Plant Journal* **65** 253-268 (2011)

843 Peng L, Fukao Y, Myouga F, Motohashi R, Shinozaki K, Shika-nai T, "A Chaperonin Subunit with Unique Structures Is Es-sential for Folding of a Specific Substrate" *PLoS Biology* **9** e1001040 (2011)

844 Qin F, Kodaira K, Maruyama K, Mizoi J, Tran LS, Fujita Y, Morimoto K, Shinozaki K, Shinozaki-Yamaguchi K, "*SPINDLY* , a negative regulator of Gibberellic Acid signaling, is involved in the plant abiotic stress response" *Plant Physiology* **157** 1900-1913 (2011)

845 Qin F, Shinozaki K, Shinozaki-Yamaguchi K, "Achievements and challenges in understanding plant abiotic stress responses and tolerance" *Plant and Cell Physiology* **52** 1569-1582 (2011)

846 Redestig H, Kobayashi M, Saito K, Kusano M, "Exploring ma-trix effects and quantification performance in metabolomics experiments using artificial biological gradients" *Analytical Chemistry* **83** 5645-5651 (2011)

847 Redestig H, Kusano M, Ebana K, Kobayashi M, Oikawa A, Okazaki Y, Matsuda F, Arita M, Fujita N, Saito K, "Exploring molecular backgrounds of quality traits in rice by predictive models based on high-coverage metabolomics" *BMC Systems Biology* **5** 1-11 (2011)

848 Robert-Seilaniantz A, MacLean D, Jikumaru Y, Hill L, Yama-guchi S, Kamiya Y, Jones J, "The microRNA miR393 re-directs secondary metabolite biosynthesis away from camalexin and towards glucosinolates" *The Plant Journal* **67** 218-231 (2011)

849 Saika H, Oikawa A, Matsuda F, Onodera H, Saito K, Toki S, "Application of gene targeting to designed mutation breed-ing of high-tryptophan rice" *Plant Physiology* **156** 1269-1277 (2011)

850 Sakakibara K, Hanada K, "An evolutionary view of functional diversity in family 1 glycosyltransferases" *The Plant Journal* **66** 182-193 (2011)

851 Sakamoto T, Inui YT, Uraguchi S, Yoshizumi T, Matsunaga S, Matsui M, Umeda M, Fukui K, Fujiwara T, "Condensin II Alleviates DNA Damage and Is Essential for Tolerance of Boron Overload Stress in *Arabidopsis*" *The Plant Cell* **23** 3533-3546 (2011)

852 Sakurai N, Ara T, Ogata Y, Sano R, Ohno T, Sugiyama K, Hiruta A, Yamazaki K, Yano K, Aoki K, Aharoni A, Hamada K, Yokoyama K, Kawamura S, Otsuka H, Tokimatsu T, Kanehisa M, Suzuki H, Saito K, Shibata D, "KaPPA-View4: A metabolic pathway database for representation and analysis of correlation networks of gene co-expression and metabolite co-accumulation and omics data" *Nucleic Acids Research* **39** D677-D684 (2011)

853 Sakurai T, Kondou Y, Akiyama K, Kurotani A, Higuchi M, Ichikawa T, Kuroda H, Kusano M, Mori M, Saitou T, Sakakibara H, Sugano S, Suzuki M, Takahashi H, Takahashi S, Takatsuji H, Yokotani N, Yoshizumi T, Saito K, Shinozaki K, Oda K, Hirochika H, Matsui M, "RiceFox: A Database of Arabidopsis mutant lines overexpressing rice full-length cDNA that contains a wide range of trait information to facilitate analysis of gene function" *Plant Cell Physiology* **52** 265-273 (2011)

854 Sasaki E, Takahashi C, Asami T, Shimada Y, "AtCAST, a Tool for Exploring Gene Expression Similarities among DNA Microarray Experiments Using Networks" *Plant Cell Physiology* **52** 169-180 (2011)

855 Sawai S, Saito K, "Triterpenoid biosynthesis and engineering in plants" *Frontiers in Plant Science* **2** 25 (2011)

856 Scalbert A, Andres-Lacueva C, Arita M, Kroon P, Manach C, Urpi-Sarda M, Wishart D, "Databases on Food Phytochemicals and Their Health-Promoting Effects" *Journal of Agricultural and Food Chemistry* **59** 4331-4348 (2011)

857 Seki H, Sawai S, Ohyama K, Mizutani M, Ohnishi T, Sudo H, Fukushima E, Akashi T, Aoki T, Saito K, Muranaka T, "Triterpene functional genomics in licorice for identification of CYP72A154 involved in the biosynthesis of glycyrrhizin" *The Plant Cell* **23** 4112-4123 (2011)

858 Sekiyama Y, Chikayama E, Kikuchi J, "Evaluation of a semi-polar solvent system as a step toward heteronuclear multidimensional NMR-based metabolomics for ¹³C-labeled bacteria, plants, and animals" *Analytical Chemistry* **83** 719-726 (2011)

859 Seo M, Koshiba T, "Transport of ABA from the site of biosynthesis to the site of action" *Journal of Plant Research* **124** 501-507 (2011)

860 Shin R, "Transcriptional Regulatory Components Responding to Macronutrient Limitation" *Journal of Plant Biology* **54** 286-293 (2011)

861 Shin R, Jez J, Basra A, Zhang B, Schachtman D, "14-3-3 Proteins fine-tune plant nutrient metabolism" *FEBS Letters* **585** 143-147 (2011)

862 Skirycz A, Claeys H, De Bodt S, Oikawa A, Shimoda S, Andriankaja M, Maleux K, Eloy N, Frederik C, Yoo S, Saito K, Inze D, "Pause-and-stop: the effects of osmotic stress on cell proliferation during early leaf development in *Arabidopsis* and a role for ethylene signaling in cell cycle arrest" *The Plant Cell* **23** 1876-1888 (2011)

863 Stoz H, Jikumaru Y, Shimada Y, Sasaki E, Stingl N, Mueller M, Kamiya Y, "Jasmonate-dependent and COI1-independent defense responses against *Sclerotinia sclerotiorum* in *Arabidopsis thaliana*: Auxin is Part of COI1-independent defense signaling" *Plant and Cell Physiology* **52** 1941-1956 (2011)

864 Stoz H, Sawada Y, Shimada Y, Hirai MY, Sasaki E, Krischke M, Brown P, Saito K, Kamiya Y, "Role of camalexin, indole glucosinolates, and side chain modification of glucosinolate-derived isothiocyanates in defense of Arabidopsis against *Sclerotinia sclerotiorum*" *The Plant Journal* **67** 81-93 (2011)

865 Suzuki A, Suriyagoda L, Shigeyama T, Tominaga A, Sasaki M, Hiratsuka Y, Yoshinaga A, Arima S, Agarie S, Sakai T, Inada S, Jikumaru Y, Kamiya Y, Uchiumi T, Abe M, Hashiguchi M, Akashi R, Sato S, Kaneko T, Tabata S, Hrsch A, "*Lotus japonicus* nodulation is photomorphogenetically controlled by sensing the red/far red (R/FR) ratio through jasmonic acid (JA) signaling" *PNAS* **108** 16837-16842 (2011)

866 Takahashi H, Kopriva S, Giordano M, Saito K, Hell R, "Sulfur assimilation in photosynthetic organisms: molecular functions and regulations of transporters and assimilatory enzymes" *Annual Review of Plant Biology* **62** 157-84 (2011)

867 Takase T, Ishikawa H, Murakami H, Kikuchi J, Sato-Nara K, Suzuki H, "The Circadian clock modulates water dynamics and aquaporin expression in *Arabidopsis* roots" *Plant Cell Physiology* **52** 373-383 (2011)

868 Takeda S, Hanano K, Kariya A, Shimizu S, Zhao L, Matsui M, Tasaka M, Aida M, "CUP-SHAPED COTYLEDON1 transcription factor activates the expression of *LSH4* and *LSH3*, two members of the ALOG gene family, in shoot organ boundary cells" *The Plant Journal* **66** 1066-1077 (2011)

869 Takeuchi K, Gyohda A, Tominaga M, Kawamatsu M, Hatakeyama A, Ishii N, Shimaya K, Nishimura T, Riemann M, Nick P, Hashimoto M, Komano T, Endo A, Okamoto T, Jikumaru Y, Kamiya Y, Terakawa T, Koshiba T, "RSOsPR10 expression in response to environmental stresses is regulated antagonistically by jasmonate/ethylene and salicylic Acid signaling pathways in rice roots" *Plant and Cell Physiology* **52** 1686-1696 (2011)

870 Tanaka N, Itoh H, Sentoku N, Kojima M, Sakakibara H, Izawa T, Itoh J, Nagato Y, "The *COP1* ortholog *PPS* regulates the juvenile-adult and vegetative-reproductive phase changes in rice" *The Plant Cell* **23** 2143-2154 (2011)

871 Thierry D, Sedijani P, Kondou Y, Matsui M, de Jong G, Samsen G, Wiese-Klinkenberg A, Primavesi L, Paul M, Schluepmann H, "Growth arrest by trehalose-6-phosphate: an astonishing case of primary metabolite control over growth by way of the SnRK1 signaling pathway" *Plant Physiology* **157** 160-174 (2011)

872 To T, Kim J, Matsui A, Kurihara Y, Morosawa T, Ishida J, Tanaka M, Endo T, Kakutani T, Toyoda T, Kimura H, Yokoyama S, Shinozaki K, Seki M, "*Arabidopsis* HDA6 regulates locus-directed heterochromatin silencing in cooperation with MET1" *PLoS Genetics* **7** e1002055 (2011)

873 To T, Nakaminami K, Kim J, Morosawa T, Ishida J, Tanaka M, Yokoyama S, Shinozaki K, Seki M, "*Arabidopsis* HDA6 is required for freezing tolerance" *Biochemical and Biophysical Research Communications* **406** 414-419 (2011)

874 Tohge T, Kusano M, Fukushima A, Saito K, Fernie A, "Transcriptional and metabolic programs following exposure of plants to UV-B irradiation" *Plant Signaling & Behavior* **6** 1987-1992 (2011)

875 Tominaga R, Ishida T, Wada T, "Chapter tow - new insights into the mechanism of development of *Arabidopsis* root hairs and trichomes" *International Review of Cell and Molecular Biology* **286** 67-106 (2011)

876 Tominaga R, Iwata M, Nukumizu Y, Wada T, "Analysis of IIIId, IIle and IVa group basic-helix-loop-helix proteins expressed in *Arabidopsis* root epidermis" *Plant Science* **181** 471-478 (2011)

877 Toyokura K, Watanabe K, Oikawa A, Kusano M, Tameshige T, Tatematsu K, Matsumoto N, Tsugeki R, Saito K, Okada K, "Succinic semialdehyde dehydrogenase is involved in the robust patterning of Arabidopsis leaves along the adaxial-abaxial axis" *Plant Cell Physiology* **52** 1340-1353 (2011)

878 Ueda M, Matsui K, Ishiguro S, Kato T, Tabata S, Kobayashi M, Seki M, Shinozaki K, Okada K, "Arabidopsis *RPT2a* encoding the 26S proteasome subunit is required for various aspects of root meristem maintenance, and regulates gametogenesis redundantly with its homolog, *RPT2b*" *Plant and Cell Physiology* **52** 1628-1640 (2011)

879 Umezawa T, "Systems biology approaches to abscisic acid signaling" *Journal of Plant Research* **124** 539-548 (2011)

880 Virapom V, Yamazaki M, Saito K, Denduangboripant J, Chayamarit K, Chuanasa T, Sukrong S, "Correlation of camptothecin-producing ability and phylogenetic relationship in the genus *Ophiorrhiza*" *Planta Medica* **77** 759-64 (2011)

881 Wang J, Ma X, Kojima M, Sakakibara H, Hou B, "N-Glucosyltransferase UGT76C2 is involved in cytokinin homeostasis and cytokinin response in *Arabidopsis thaliana*" *Plant Cell Physiology* **52** 2200-2213 (2011)

882 Wang Y, Wu J, Nakamichi N, Sakakibara H, Nam H, Wu S, "LIGHT-REGULATED WD1 and PSEUDO-RESPONSE REGULATOR9 form a positive feedback regulatory loop in the *Arabidopsis* circadian clock" *The Plant Cell* **23** 486-498 (2011)

883 Won C, Sheng X, Mashiguchi K, Zheng Z, Dai X, Cheng Y, Kasahara H, Kamiya Y, Chory J, Zhao Y, "Conversion of tryptophan to indole-3-acetic acid by TRYPTOPHAN AMINOTRANSFERASES OF *ARABIDOPSIS* and YUCCAs in *Arabidopsis*" *Proceedings of the National Academy of Sciences of the United States of America* **108** 18518-18523 (2011)

884 Wu G, Wang X, Li X, Kamiya Y, Otegui M, Chory J, "Methylation of a Phosphatase Specifies Dephosphorylation and Degradation of Activated Brassinosteroid Receptors" *Science Signaling* **4** ra29 (2011)

885 Yamada K, Kanai M, Osakabe Y, Ohiraki H, Shinozaki K, Shinozaki-Yamaguchi K, "Monosaccharide absorption activity of *Arabidopsis* roots depends on expression profiles of transporter genes under high salinity conditions" *The Journal of Biological Chemistry* **286** 43577-43586 (2011)

886 Yamazaki M, Saito K, "Molecular genetic study on the anthocyanin chemotypes of *Perilla frutescens* var. *crispa*" *Natural Product Communications* **6** 423-427 (2011)

887 Yasumitsu H, Mochida K, Yasuda C, Isobe M, Kawsar S, Fujii Y, Matsumoto R, Kanaly R, Ozeki Y, "Antiproliferative effects of galectin-1 from *Rana catesbeiana* eggs on human leukemia cells and its binding proteins in human cells" *In Vitro Cellular Developmental Biology: Animal* **47** 728-734 (2011)

888 Yokotani N, Higuchi M, Kondou Y, Ichikawa T, Iwabuchi M, Hirochika H, Matsui M, Oda K, "A novel chloroplast protein, CEST induces tolerance to multiple environmental stresses and reduces photooxidative damage in transgenic *Arabidopsis*" *Journal of Experimental Botany* **62** 557-569 (2011)

889 Yoshida T, Ohama N, Nakajima J, Kidokoro S, Mizoi J, Nakashima K, Maruyama K, Kim J, Seki M, Todaka D, Osakabe Y, Sakuma Y, Schoffl F, Shinozaki K, Shinozaki-Yamaguchi K, "*Arabidopsis* HsfA1 transcription factors function as the main positive regulators in heat shock-responsive gene expression" *Molecular Genetics and Genomics* **286** 321-332 (2011)

890 Yoshimitsu Y, Tanaka K, Fukuda W, Asami T, Yoshida S, Hayashi K, Kamiya Y, Jikumaru Y, Shigeta T, Nakamura Y, Matsuo T, Okamoto S, "Transcription of *DWARF4* Plays a Crucial Role in Auxin-Regulated Root Elongation in Addition to Brassinosteroid Homeostasis in *Arabidopsis Thaliana*" *PLoS One* **6** e23851 (2011)

891 Zhang Z, Ogawa M, Fleet C, Zentella R, Hu J, Heo J, Lim J, Kamiya Y, Yamaguchi S, Sun T, "SCARECROW-LIKE 3 promotes gibberellin signaling by antagonizing master growth repressor DELLA in *Arabidopsis*" *Proceedings of the National Academy of Sciences of the United States of America* **108** 2160-2165 (2011)

892 Zhao C, Hanada A, Yamaguchi S, Kamiya Y, Beers E, "The Arabidopsis Myb genes *MYR1* and *MYR2* are redundant negative regulators of flowering time under decreased light intensity" *The Plant Journal* **66** 502-515 (2011)

893 Zhu Z, An F, Feng Y, Li P, Xue L, A M, Jiang Z, Kim J, To T, Li W, Zhang X, Yu Q, Dong Z, Chen W, Seki M, Zhou J, Hongwei G, "Derepression of ethylene-stabilized transcription factors (EIN3/EIL1) mediates jasmonate and ethylene signaling synergy in *Arabidopsis*" *Proceedings of the National Academy of Sciences of the United States of America* **108** 12539-12544 (2011)

894 Afendi F, Okada T, Yamazaki M, Hirai-Morita A, Nakamura Y, Nakamura K, Ikeda S, Takahashi H, Altaf-UI-Amin M, Darusman L, Saito K, Kanaya S, "KNAPsAcK Family Databases: Integrated metabolite-plant species databases for multifaceted plant research" *Plant Cell Physiology* **53** e1 (2012)

895 Arita M, "From metabolic reactions to networks and pathways" *Methods in Molecular Biology* **804** 93-106 (2012)

896 Bunsupa S, Katayama K, Ikeura E, Oikawa A, Toyooka K, Saito K, Yamazaki M, "Lysine decarboxylase catalyzes the first step of quinolizidine alkaloid biosynthesis and coevolved with alkaloid production in Leguminosae" *The Plant Cell* **24** 1202-1216 (2012)

897 Choudhary SP, Kanwar M, Bhardwaj R, Yu J-Q, Tran L-SP, "Chromium stress mitigation by polyamine-brassinosteroid application involves phytohormonal and physiological strategies in *Raphanus sativus* L." *PLoS One* **7** e33210 (2012)

898 Choudhary S, Oral H, Bhardwaj R, Yu J, Tran LS, "Interaction of brassinosteroids and polyamines enhances copper stress tolerance in *Raphanus sativus*" *Journal of Experimental Botany* **63** 5659-5675 (2012)

899 Choudhary S, Yu J, Yamaguchi-Shinozaki K, Shinozaki K, Tran LS, "Benefits of brassinosteroid crosstalk" *Trends in Plant Science* **17** 594-605 (2012)

900 Date Y, Iikura T, Yamazawa A, Moriya S, Kikuchi J, "Metabolic Sequences of Anaerobic Fermentation on Glucose-Based Feeding Substrates Based on Correlation Analyses of Microbial and Metabolite Profiling" *Journal of Proteome Research* **11** 5602-5610 (2012)

901 Date Y, Sakata K, Kikuchi J, "Chemical profiling of complex biochemical mixtures from various seaweeds" *Polymer Journal* **44** 888-894 (2012)

902 Endo A, Tatematsu K, Hanada K, Duermeyer L, Okamoto M, Sakakibara K, Saito K, Toyoda T, Kawakami N, Kamiya Y, Seki M, Nambara E, "Tissue-specific transcriptome analysis reveals cell wall metabolism, flavonol biosynthesis, and defense responses are activated in the endosperm of germinating *Arabidopsis thaliana* seeds" *Plant and Cell Physiology* **53** 16-27 (2012)

903 Everroad R, Yoshida S, Tsuboi Y, Date Y, Kikuchi J, Moriya S, "Concentration of metabolites from low-density planktonic communities for environmental metabolomics using nuclear magnetic resonance spectroscopy" *Journal of Visualized Experiments* **62** e3163 (2012)

904 Frey A, Effroy D, Lefebvre V, Seo M, Perreau F, Berger A, Sechet J, To A, North H, Marion-Poll A, "Epoxy-carotenoid cleavage by NCED5 fine-tunes ABA accumulation and affects seed dormancy and drought tolerance with other NCED family members" *The Plant Journal* **70** 501-512 (2012)

905 Fujita M, Fujita Y, Iuchi S, Yamada K, Kobayashi Y, Urano K, Kobayashi M, Shinozaki-Yamaguchi K, Shinozaki K, "Natural variation in a polyamine transporter determines paraquat tolerance in *Arabidopsis*" *Proceedings of the National Academy of Sciences of the United States of America* **109** 6343-6347 (2012)

906 Fukushima A, Nishizawa T, Hayakumo M, Hikosaka S, Saito K, Goto E, Kusano M, "Exploring Tomato Gene Functions Based on Coexpression Modules Using Graph Clustering and Differential Coexpression Approaches" *Plant Physiology* **158** 1487-1502 (2012)

907 Goh T, Kasahara H, Mimura T, Kamiya Y, Fukaki H, "Multiple AUX/IAA-ARF modules regulate lateral root formation: the role of *Arabidopsis* SHY2/IAA3-mediated auxin signalling" *Philosophical Transactions of the Royal Society B* **367** 1461-1468 (2012)

908 Ha S, Vankova R, Yamaguchi-Shinozaki K, Shinozaki K, Tran LS, "Cytokinins: metabolism and function in plant adaptation to environmental stresses" *Trends in Plant Science* **17** 172-179 (2012)

909 Ishida T, Yoshimura M, Miura K, Sugimoto K, "MMS21/HPY2 and SIZ1, two *Arabidopsis* SUMO E3 ligases, have distinct functions in development" *PLoS One* **7** e46897 (2012)

910 Kadota Y, Shirasu K, "The HSP90 complex of plants" *Biochimica et Biophysica Acta* **1823** 689-697 (2012)

911 Kanaya T, Hase K, Takahashi D, Fukuda S, Hoshino K, Sasaki I, Hemmi H, Knoop KA, Kumar N, Sato M, Katsuno T, Yokosuka O, Toyooka K, Nakai K, Sakamoto A, Kitahara Y, Jinnohara T, McSorley SJ, Kaisho T, Williams IR, Ohno H. "The Ets Transcription Factor Spi-B Is Essential for the Differentiation of Intestinal Microfold (M) Cells" *Nature Immunology* **13** 729-736 (2012)

912 Kanno Y, Hanada A, Chiba Y, Ichikawa T, Nakazawa M, Matsui M, Koshiba T, Kamiya Y, Seo M, "Identification of an abscisic acid transporter by functional screening using the receptor complex as a sensor" *Proceedings of the National Academy of Sciences of the United States of America* **109** 9653-9658 (2012)

913 Kim J, Mizoi J, Kidokoro S, Maruyama K, Nakajima J, Nakashima K, Mitsuda N, Takiguchi Y, Takagi-Ohme M, Kondou Y, Matsui M, Shinozaki K, Shinozaki-Yamaguchi K, "*Arabidopsis* GROWTH-REGULATING FACTOR7 functions as a transcriptional repressor of abscisic acid- and osmotic stress-responsive genes, including *DREB2A*" *The Plant Cell* **24** 3393-3405 (2012)

914 Kim J, Nam J, John K, Kusano M, Oikawa A, Saito K, Lee C, "GC-TOF-MS- and CE-TOF-MS-based Metabolic Profiling of Cheonggukjang (Fast-fermented Bean Paste) during Fermentation and its correlation with Metabolic Pathways" *Journal of Agricultural and Food Chemistry* **60** 9746-9753 (2012)

915 Kim J, To T, Ishida J, Matsui A, Kimura H, Seki M, "Transition of chromatin status during the process of recovery from drought stress in *Arabidopsis thaliana*" *Plant and Cell Physiology* **53** 847-856 (2012)

916 Kim J, To T, Seki M, "An epigenetic integrator: new insights into genome regulation, environmental stress responses and developmental controls by HISTONE DEACETYLASE 6" *Plant and Cell Physiology* **53** 794-800 (2012)

917 Kimbara J, Yoshida M, Ito H, Hosoi K, Kusano M, Kobayashi M, Ariizumi T, Asamizu E, Ezura H, "A novel class of *sticky peel* and *light green* mutations causes cuticle deficiency in leaves and fruits of tomato (*Solanum lycopersicum*)" *Planta* **236** 1559-70 (2012)

918 Kobayashi K, Baba S, Obayashi T, Sato M, Toyooka K, Keranen M, Aro E, Fukaki H, Ohta H, Sugimoto K, Masuda T, "Regulation of Root Greening by Light and Auxin/Cytokinin Signaling in *Arabidopsis*" *The Plant Cell* **24** 1081-1095 (2012)

919 Komaki S, Sugimoto K, "Control of the plant cell cycle by developmental and environmental cues" *Plant and Cell Physiology* **53** 953-964 (2012)

920 Kumar R, Tran L-SP, Neelakandan AK, Nguyen HT, "Higher plant cytochrome *b5* polypeptides modulate fatty acid desaturation" *PLoS One* **7** e31370 (2012)

921 Kurihara Y, Schmitz R, Nery J, Schultz M, Kurihara E, Moro-

sawa T, Tanaka M, Toyoda T, Seki M, Ecker J, "Surveillance of 3' Noncoding Transcripts Requires FIERY1 and XRN3 in *Arabidopsis*" *G3: Genes, Genomes, Genetics* **2** 487-498 (2012)

922 Kurusu T, Nishikawa D, Yamazaki Y, Gotoh M, Nakano M, Hamada H, Yamanaka T, Iida K, Nakagawa Y, Saji H, Shinozaki K, Iida H, Kuchitsu K, "Plasma membrane protein OsMCA1 is involved in regulation of hypo-osmotic shock-induced Ca²⁺ influx and modulates generation of reactive oxygen species in cultured rice cells" *BMC Plant Biology* **12** 11 (2012)

923 Kusano M, Fukushima A, Naoko F, Okazaki Y, Kobayashi M, Naoko O, Kaworu E, Saito K, "Deciphering starch quality of rice kernels using metabolite profiling and pedigree network analysis" *Molecular Plant* **5** 442-451 (2012)

924 Kusano M, Saito K, "Role of Metabolomics in Crop Improvement" *Journal of Plant Biochemistry and Biotechnology* **21** 24-31 (2012)

925 Le DT, Aldrich DL, Valliyodan B, Watanabe Y, Ha CV, Nishiyama R, Guttikonda SK, Quach TN, Gutierrez-Gonzalez JJ, Tran L-SP, Nguyen HT, "Evaluation of Candidate Reference Genes for Normalization of Quantitative RT-PCR in Soybean Tissues under Various Abiotic Stress Conditions" *PLoS One* **7** e46487 (2012)

926 Le DT, Nishiyama R, Watanabe Y, Vankova R, Tanaka M, Seki M, Ham LH, Yamaguchi-Shinozaki K, Shinozaki K, Tran L-SP, "Identification and expression analysis of cytokinin metabolic genes in soybean under normal and drought conditions in relation to cytokinin levels" *PLoS One* **7** e42411 (2012)

927 Lin S, Yoshimoto M, Lyu P, Tang C, Arita M, "Phylogenomic and Domain Analysis of Iterative Polyketide Synthases in *Aspergillus* Species" *Evolutionary bioinformatics* **8** 373-387 (2012)

928 Ma Y, Qin F, Tran L-SP, "Contribution of genomics to gene discovery in plant abiotic stress responses" *Molecular Plant* **5** 1176-1178 (2012)

929 Maruyama K, Todaka D, Mizoi J, Yoshida T, Kidokoro S, Matsukura S, Takasaki H, Sakurai T, Yamamoto Y, Yoshihara K, Kojima M, Sakakibara H, Shinozaki K, Shinozaki-Yamaguchi K, "Identification of *cis*-acting promoter elements in cold- and dehydration-induced transcriptional pathways in *Arabidopsis*, rice, and soybean" *DNA Research* **19** 37-49 (2012)

930 Maruyama M, Hayashi S, Nishimura N, Ishide M, Kobayashi K, Yagi Y, Asami T, Nakamura T, Shinozaki K, Hirayama T, "Isolation of *Arabidopsis ahg11*, a weak ABA hypersensitive mutant defective in *nad4* RNA editing" *Journal of Experimental Botany* **63** 5301-5310 (2012)

931 Matsuda F, Okazaki Y, Oikawa A, Kusano M, Nakabayashi R, Kikuchi J, Yonemaru J, Ebana K, Yano M, Saito K, "Dissection of genotype-phenotype associations in rice grains using metabolome quantitative trait loci analysis" *The Plant Journal* **70** 624-636 (2012)

932 Mizoi J, Shinozaki K, Shinozaki-Yamaguchi K, "AP2/ERF family transcription factors in plant abiotic stress responses" *Biochimica et Biophysica Acta* **1819** 86-96 (2012)

933 Mori T, Chikayama E, Tsuboi Y, Ishida N, Shisa N, Noritake Y, Moriya S, Kikuchi J, "Exploring the conformational space of amorphous cellulose using NMR chemical shifts" *Carbohydrate Polymers* **90** 1197-1203 (2012)

934 Nakabayashi K, Bartsch M, Xiang Y, Miatton E, Pellenghar S, Yano R, Seo M, Soppe W, "The time required for dormancy release in *Arabidopsis* is determined by DELAY OF GERMINATION1 protein levels in freshly harvested seeds" *The Plant Cell* **24** 2826-2838 (2012)

935 Nakagami H, Sugiyama N, Ishihama Y, Shirasu K, "Shotguns in the front line: Phosphoproteomics in plants" *Plant and Cell Physiology* **53** 118-124 (2012)

936 Nakaminami K, Matsui A, Shinozaki K, Seki M, "RNA regulation in plant abiotic stress responses" *Biochimica et Biophysica Acta* **1819** 149-153 (2012)

937 Nakashima K, Takasaki H, Mizoi J, Shinozaki K, Shinozaki-Yamaguchi K, "NAC transcription factors in plant abiotic stress responses" *Biochimica et Biophysica Acta* **1819** 97-103 (2012)

938 Nam Y-J, Tran L-SP, Kojima M, Sakakibara H, Nishiyama R, Shin R, "Regulatory Roles of Cytokinins and Cytokinin Signaling in Response to Potassium Deficiency in *Arabidopsis*" *PLoS One* **7** e47797 (2012)

939 Nelissen H, Rymen B, Jikumaru Y, Demuynck K, Lijsebettens M, Kamiya Y, Inze D, Beemster G, "A local maximum in gibberellin levels regulates maize leaf growth by spatial control of cell division" *Current Biology* **22** 1183-1187 (2012)

940 Nishimura T, Matano N, Morishima T, Kakinuma C, Hayashi K, Komano T, Kubo M, Hasebe M, Kasahara H, Kamiya Y, Koshiba T, "Identification of IAA Transport Inhibitors Including Compounds Affecting Cellular PIN Trafficking by Two Chemical Screening Approaches Using Maize Coleoptile Systems" *Plant and Cell Physiology* **53** 1671-1682 (2012)

941 Nishiyama R, Le DT, Watanabe Y, Matsui A, Tanaka M, Seki M, Yamaguchi-Shinozaki K, Shinozaki K, Tran L-SP, "Transcriptome Analyses of a Salt-Tolerant Cytokinin-Deficient Mutant Reveal Differential Regulation of Salt Stress Response by Cytokinin Deficiency" *PLoS One* **7** e32124 (2012)

942 Ogata Y, Chikayama E, Morioka Y, Everroad RC, Shino A, Matsushima A, Haruna H, Moriya S, Toyoda T, Kikuchi J, "ECOMICS: A Web-Based Toolkit for Investigating the Biomolecular Web in Ecosystems Using a Trans-omics Approach" *PLoS One* **7** e30263 (2012)

943 Ogawa Y, Sakurai N, Oikawa A, Kai K, Morishita Y, Mori K, Moriya K, Fujii F, Aoki K, Suzuki H, Ohta D, Saito K, Daisuke S, "High-throughput Cryopreservation of Plant Cell Cultures for Functional Genomics" *Plant and Cell Physiology* **53** 943-952 (2012)

944 Oikawa A, Saito K, "Metabolite analyses of single cells" *The Plant Journal* **70** 30-38 (2012)

945 Okushita K, Chikayama E, Kikuchi J, "Solubilization Mechanism and Characterization of the Structural Change of Bacterial Cellulose in Regenerated States through Ionic Liquid Treatment" *Biomacromolecules* **13** 1323-1330 (2012)

946 Okushita K, Komatsu T, Chikayama E, Kikuchi J, "Statistical ap-

proach for solid-state NMR spectra of cellulose derived from a series of variable parameters" *Polymer Journal* **44** 895-900 (2012)

947 Osakabe Y, Kawaoka A, Nishikubo N, Osakabe K, "Responses to environmental stresses in woody plants: key to survive and longevity" *Journal of Plant Research* **125** 1-10 (2012)

948 Peng C, Lin S, Peng S, Lyu P, Arita M, Tang C, "Feature Identification of Compensatory Gene Pairs without Sequence Homology in Yeast" *Comparative and functional genomics* 2012:653174 (2012)

949 Plackett A, Powers S, Fernandez-Garcia N, Urbanova T, Takebayashi Y, Seo M, Jikumaru Y, Benlloch R, Nilsson O, Ruiz-Rivero O, Phillips A, Wilson Z, Thomas S, Hedden P, "Analysis of the developmental roles of the *Arabidopsis* gibberellin 20-oxidases demonstrates that *GA20ox1*, -2, and -3 are the dominant paralogs" *The Plant Cell* **24** 941-960 (2012)

950 Rymen B, Sugimoto K, "Tuning growth to the environmental demands" *Current Opinion in Plant Biology* **15** 683-690 (2012)

951 Sakakibara K, Fukushima A, Nakabayashi R, Hanada K, Matsuda F, Sugawara S, Inoue E, Kuromori T, Ito T, Shinozaki K, Wangwattana B, Yamazaki M, Saito K, "Two glycosyltransferases involved in anthocyanin modification delineated by transcriptome independent component analysis in *Arabidopsis thaliana*" *The Plant Journal* **69** 154-167 (2012)

952 Sakurai N, Ogata Y, Ara T, Sano R, Akimoto N, Hiruta A, Suzuki H, Kajiwarra M, Widyastuti U, Suharsono S, Yokota A, Akashi K, Kikuchi J, Shibata D, "Development of KaPPA-View4 for omics studies on *Jatropha* and a database system KaPPA-Loader for construction of local omics databases" *Plant Biotechnology* **29** 131-135 (2012)

953 Schneider K, Breuer C, Kawamura A, Jikumaru Y, Hanada A, Fujioka S, Ichikawa T, Kondou Y, Matsui M, Kamiya Y, Yamaguchi S, Sugimoto K, "Arabidopsis PIZZA has the capacity to acylate brassinosteroids" *PLoS One* **7** e46805 (2012)

954 Seo M, Jikumaru Y, Kamiya Y, "Profiling of hormones and related metabolites in seed dormancy and germination studies" *Methods in Molecular Biology* **773** 99-111 (2012)

955 Shigeyama T, Tominaga A, Arima S, Sakai T, Inada S, Jikumaru Y, Kamiya Y, Uchiumi T, Abe M, Hashiguchi M, Akashi R, Hirsch A, Suzuki A, "Additional cause for reduced JA-Ile in the root of a *Lotus japonicus phyB* mutant" *Plant Signaling & Behavior* **7** 746-748 (2012)

956 Shimamura M, Itouga M, Tsubota H, "Evolution of apolar sporocytes in marchantialean liverworts: implications from molecular phylogeny" *Journal of Plant Research* **125** 197-206 (2012)

957 Takahashi H, Ozawa A, Nemoto K, Nozawa A, Seki M, Shinozaki K, Takeda H, Endo Y, Sawasaki T, "Genome-wide biochemical analysis of Arabidopsis protein phosphatase using a wheat cell-free system" *FEBS Letters* **586** 3134-3141 (2012)

958 Tanaka H, Osakabe Y, Katsura S, Mizuno S, Maruyama K, Kusakabe K, Mizoi J, Shinozaki K, Shinozaki-Yamaguchi K, "Abiotic stress-inducible receptor-like kinases negatively control ABA signaling in Arabidopsis" *The Plant Journal* **70** 599-613 (2012)

959 Toh S, Kamiya Y, Kawakami N, Nambara E, McCourt P, Tsuchiya Y, "Therminhibition Uncovers a Role for Strigolactones in Arabidopsis Seed Germination" *Plant Cell Physiology* **53** 107-117 (2012)

960 Tokmakov A, Kurotani A, Takagi T, Toyama M, Shirouzu M, Fukami Y, Yokoyama S, "Multiple post-translational modifications affect heterologous protein synthesis" *The Journal of Biological Chemistry* **287** 27106-27116 (2012)

961 Tokunaga H, Kojima M, Kuroha T, Ishida T, Sugimoto K, Kiba T, Sakakibara H, "Arabidopsis lonely guy (LOG) multiple mutants reveal a central role of the LOG-dependent pathway in cytokinin activation" *The Plant Journal* **69** 355-365 (2012)

962 Tominaga R, Iwata M, Nukumizu Y, Sano R, Wada T, "A full-length R-like basic-helix-loop-helix transcription factor is required for anthocyanin upregulation whereas the N-terminal region regulates epidermal hair formation" *Plant Science* **183** 115-122 (2012)

963 Tominaga R, Nukumizu Y, Wada T, "Amino acid substitution converts *WEREWOLF* function from an activator to a repressor of *Arabidopsis* non-hair cell development" *Plant Science* **183** 37-42 (2012)

964 Tominaga T, Sano K, Kikuchi J, Mitomo H, Ijiro K, Osada Y, "Hydrophilic Double-Network Polymers that Sustain High Mechanical Modulus under 80% Humidity" *ACS Macro Letters* **1** 432-436 (2012)

965 Ueno S, Moriguchi Y, Uchiyama K, Ujino-Ihara T, Futamura N, Sakurai T, Shinohara K, Tsumura Y, "A second generation framework for the analysis of microsatellites in expressed sequence tags and the development of EST-SSR markers for a conifer, *Cryptomeria japonica*" *BMC Genomics* **13** 136-151 (2012)

966 Uraji M, Katagiri T, Okuma E, Ye W, Hossain M, Masuda C, Miura A, Nakamura Y, Mori I, Shinozaki K, Murata Y, "Cooperative function of PLD δ and PLD α 1 in Absciscic Acid-induced stomatal closure in Arabidopsis" *Plant Physiology* **159** 450-460 (2012)

967 Utsumi Y, Tanaka M, Morosawa T, Kurotani A, Yoshida T, Mochida K, Matsui A, Umemura Y, Ishitani M, Shinozaki K, Sakurai T, Seki M, "Transcriptome analysis using a high-density oligomicroarray under drought stress in various genotypes of cassava: an important tropical crop" *DNA Research* **19** 335-345 (2012)

968 Vergara L, Everroad R, Andraca G, Kikuchi J, Makihara H, "Plant host differences between *Cossus redtenbacheri* and *Cossus insularis*: insights from mechanical tests and molecular phylogeny" *Bulletin of Insectology* **65** 217-222 (2012)

969 Wada M, Takahashi H, Altaf-UI-Amin M, Nakamura K, Hirai MY, Ohta D, Kanaya K, "Prediction of operon-like gene clusters in the *Arabidopsis thaliana* genome based on co-expression analysis of neighboring genes" *Gene* **503** 56-64 (2012)

970 Watanabe T, Shino A, Akashi K, Kikuchi J, "Spectroscopic investigation of tissue-specific biomass profiling for *Jatropha curcas* L." *Plant Biotechnology* **29** 163-170 (2012)

971 Win Y, Krasileva K, Kamoun S, Shirasu K, Staskawicz B, Banfield M, "Sequence divergent RXLR effectors share a structural

fold conserved across plant pathogenic oomycete species" *PLoS Pathogens* **8** e1002400 (2012)

972 Xu Z, Lee K, Dong T, Jeong J, Jin J, Kanno Y, Kim D, Kim S, Seo M, Bressan R, Yun D, Hwang I, "A vacuolar β -glucosidase homolog that possesses glucose-conjugated abscisic acid hydrolyzing activity plays an important role in osmotic stress responses in *Arabidopsis*" *The Plant Cell* **24** 2184-2199 (2012)

973 Yamaguchi M, Takechi K, Myouga F, Imura S, Sato H, Takio S, Shinozaki K, Takano H, "Loss of the Plastid Envelope Protein AtLrgB Causes Spontaneous Chlorotic Cell Death in *Arabidopsis thaliana*" *Plant and Cell Physiology* **53** 125-134 (2012)

974 Yamamura M, Noda S, Hattori T, Shino A, Kikuchi J, Takabe K, Suzuki S, Shibata D, Umezawa T, "Characterization of lignocellulose of *Erianthus ravennae* in relation to enzymatic saccharification efficiency" *Plant Biotechnology* **29** 1-11 (2012)

975 Yanagawa Y, "Ubiquitin/proteasome-mediated proteolysis is involved in the response to flooding stress in soybean roots, independent of oxygen limitation" *Plant Science* **185-186** 250-258 (2012)

976 Yazawa k, Jiang C, Kojima M, Sakakibara H, Takatsuji H, "Reduction of abscisic acid levels or inhibition of abscisic acid signaling in rice during the early phase of *Magnaporthe oryzae* infection decreases its susceptibility to the fungus" *Physiological and Molecular Plant Pathology* **78** 1-7 (2012)

977 Yoshimoto K, Noutoshi Y, Hayashi K, Shirasu K, Takahashi T, Motose H, "A Chemical Biology Approach Reveals an Opposite Action between Thermospermine and Auxin in Xylem Development in *Arabidopsis thaliana*" *Plant Cell Physiology* **53** 1-40 (2012)

978 Breuer C, Morohashi K, Kawamura A, Takahashi N. Ishida T, Umeda M, Grotewold E, Sugimoto K, "Transcriptional repression of the APC/C activator CCS52A1 promotes active termination of cell growth" *The EMBO Journal* **31** 4488-4501 (2012)

979 Kobayashi K, Narise T, Sonoike K, Hashimoto H, Sato N, Kondo M, Nishimura M, Sato M, Toyooka K, Sugimoto K, Wada H, Masuda T, Ohta H, "Role of galactolipid biosynthesis in coordinated development of photosynthetic complexes and thylakoid membranes during chloroplast biogenesis in Arabidopsis" *The Plant Journal* **73** 250-261 (2013)