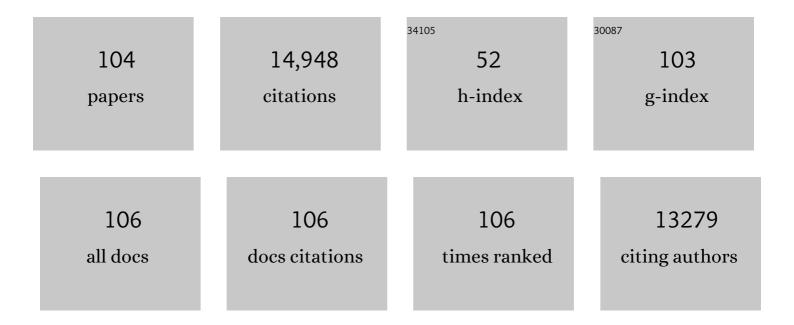
## Akio Miyao

List of Publications by Year in descending order

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Δκιο Μιγλο

#	Article	IF	CITATIONS
1	The map-based sequence of the rice genome. Nature, 2005, 436, 793-800.	27.8	3,365
2	An Overview of Gibberellin Metabolism Enzyme Genes and Their Related Mutants in Rice. Plant Physiology, 2004, 134, 1642-1653.	4.8	643
3	A 300 kilobase interval genetic map of rice including 883 expressed sequences. Nature Genetics, 1994, 8, 365-372.	21.4	578
4	Target Site Specificity of the <i>Tos17</i> Retrotransposon Shows a Preference for Insertion within Genes and against Insertion in Retrotransposon-Rich Regions of the Genome. Plant Cell, 2003, 15, 1771-1780.	6.6	493
5	Function, Intracellular Localization and the Importance in Salt Tolerance of a Vacuolar Na+/H+ Antiporter from Rice. Plant and Cell Physiology, 2004, 45, 146-159.	3.1	397
6	Three Distinct Rice Cellulose Synthase Catalytic Subunit Genes Required for Cellulose Synthesis in the Secondary Wall. Plant Physiology, 2003, 133, 73-83.	4.8	392
7	Function and Characterization of Starch Synthase I Using Mutants in Rice. Plant Physiology, 2006, 140, 1070-1084.	4.8	339
8	Characterization of SSIIIa-Deficient Mutants of Rice: The Function of SSIIIa and Pleiotropic Effects by SSIIIa Deficiency in the Rice Endosperm. Plant Physiology, 2007, 144, 2009-2023.	4.8	335
9	Rice OsHKT2;1 transporter mediates large Na+ influx component into K+-starved roots for growth. EMBO Journal, 2007, 26, 3003-3014.	7.8	333
10	A Germ Cell–Specific Gene of the <i>ARGONAUTE</i> Family Is Essential for the Progression of Premeiotic Mitosis and Meiosis during Sporogenesis in Rice. Plant Cell, 2007, 19, 2583-2594.	6.6	324
11	Functional Diversification of the Two C-Class MADS Box Genes OSMADS3 and OSMADS58 in Oryza sativa. Plant Cell, 2005, 18, 15-28.	6.6	322
12	Nonredundant Regulation of Rice Arbuscular Mycorrhizal Symbiosis by Two Members of the <i>PHOSPHATE TRANSPORTER1</i> Gene Family. Plant Cell, 2012, 24, 4236-4251.	6.6	306
13	Loss-of-Function Mutations of the Rice GAMYB Gene Impair α-Amylase Expression in Aleurone and Flower Development. Plant Cell, 2004, 16, 33-44.	6.6	296
14	The <i>MSP1</i> Gene Is Necessary to Restrict the Number of Cells Entering into Male and Female Sporogenesis and to Initiate Anther Wall Formation in Rice. Plant Cell, 2003, 15, 1728-1739.	6.6	291
15	Distinct and Cooperative Functions of Phytochromes A, B, and C in the Control of Deetiolation and Flowering in Rice. Plant Cell, 2005, 17, 3311-3325.	6.6	287
16	Characterization of a Rice Chlorophyll-Deficient Mutant Using the T-DNA Gene-Trap System. Plant and Cell Physiology, 2003, 44, 463-472.	3.1	277
17	Molecular cloning of <i>Sdr4</i> , a regulator involved in seed dormancy and domestication of rice. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5792-5797.	7.1	272
18	A rice calciumâ€dependent protein kinase OsCPK12 oppositely modulates saltâ€stress tolerance and blast disease resistance. Plant Journal, 2012, 69, 26-36.	5.7	269

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19	Arbuscular Mycorrhiza–Specific Signaling in Rice Transcends the Common Symbiosis Signaling Pathway. Plant Cell, 2008, 20, 2989-3005.	6.6	235
20	Ethylene Promotes Submergence-Induced Expression of OsABA8ox1, a Gene that Encodes ABA 8'-Hydroxylase in Rice. Plant and Cell Physiology, 2006, 48, 287-298.	3.1	223
21	Curated genome annotation of Oryza sativa ssp. japonica and comparative genome analysis with Arabidopsis thaliana. Genome Research, 2007, 17, 175-183.	5.5	218
22	Screening of the Rice Viviparous Mutants Generated by Endogenous Retrotransposon Tos17 Insertion. Tagging of a Zeaxanthin Epoxidase Gene and a Novel OsTATCGene. Plant Physiology, 2001, 125, 1248-1257.	4.8	211
23	A rice fungal MAMPâ€responsive MAPK cascade regulates metabolic flow to antimicrobial metabolite synthesis. Plant Journal, 2010, 63, 599-612.	5.7	208
24	<i>MOSAIC FLORAL ORGANS1</i> , an <i>AGL6</i> -Like MADS Box Gene, Regulates Floral Organ Identity and Meristem Fate in Rice. Plant Cell, 2009, 21, 3008-3025.	6.6	195
25	Isolation and Characterization of Rice Phytochrome A Mutants. Plant Cell, 2001, 13, 521-534.	6.6	179
26	OsATG7 is required for autophagy-dependent lipid metabolism in rice postmeiotic anther development. Autophagy, 2014, 10, 878-888.	9.1	176
27	PANICLE PHYTOMER2 (PAP2), encoding a SEPALLATA subfamily MADS-box protein, positively controls spikelet meristem identity in rice. Plant and Cell Physiology, 2010, 51, 47-57.	3.1	174
28	Characterization of pullulanase (PUL)-deficient mutants of rice (Oryza sativa L.) and the function of PUL on starch biosynthesis in the developing rice endosperm. Journal of Experimental Botany, 2009, 60, 1009-1023.	4.8	158
29	The Novel Gene <i>HOMOLOGOUS PAIRING ABERRATION IN RICE MEIOSIS1</i> of Rice Encodes a Putative Coiled-Coil Protein Required for Homologous Chromosome Pairing in Meiosis. Plant Cell, 2004, 16, 1008-1020.	6.6	151
30	An ATP-binding cassette subfamily G full transporter is essential for the retention of leaf water in both wild barley and rice. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12354-12359.	7.1	134
31	A large-scale collection of phenotypic data describing an insertional mutant population to facilitate functional analysis of rice genes. Plant Molecular Biology, 2007, 63, 625-635.	3.9	131
32	Conservation of the E-function for Floral Organ Identity in Rice Revealed by the Analysis of Tissue Culture-induced Loss-of-Function Mutants of the OsMADS1 Gene. Plant Molecular Biology, 2005, 59, 125-135.	3.9	129
33	Identification of a putative voltage-gated Ca2+ channel as a key regulator of elicitor-induced hypersensitive cell death and mitogen-activated protein kinase activation in rice. Plant Journal, 2005, 42, 798-809.	5.7	120
34	Molecular Spectrum of Somaclonal Variation in Regenerated Rice Revealed by Whole-Genome Sequencing. Plant and Cell Physiology, 2012, 53, 256-264.	3.1	114
35	Disruption of a gene for rice sucrose transporter, OsSUT1, impairs pollen function but pollen maturation is unaffected. Journal of Experimental Botany, 2010, 61, 3639-3646.	4.8	107
36	RICE SALT SENSITIVE3 Forms a Ternary Complex with JAZ and Class-C bHLH Factors and Regulates Jasmonate-Induced Gene Expression and Root Cell Elongation Â. Plant Cell, 2013, 25, 1709-1725.	6.6	107

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37	Identification of Transcription Factors Involved in Rice Secondary Cell Wall Formation. Plant and Cell Physiology, 2013, 54, 1791-1802.	3.1	105
38	A genome-wide gain-of-function analysis of rice genes using the FOX-hunting system. Plant Molecular Biology, 2007, 65, 357-371.	3.9	103
39	Divergence of Evolutionary Ways Among Common sym Genes: CASTOR and CCaMK Show Functional Conservation Between Two Symbiosis Systems and Constitute the Root of a Common Signaling Pathway. Plant and Cell Physiology, 2008, 49, 1659-1671.	3.1	103
40	An insertional mutation in the rice PAIR2 gene, the ortholog of Arabidopsis ASY1, results in a defect in homologous chromosome pairing during meiosis. Molecular Genetics and Genomics, 2004, 271, 121-129.	2.1	96
41	Unique features of the rice blast resistance Pish locus revealed by large scale retrotransposon-tagging. BMC Plant Biology, 2010, 10, 175.	3.6	94
42	RSS1 regulates the cell cycle and maintains meristematic activity under stress conditions in rice. Nature Communications, 2011, 2, 278.	12.8	87
43	Disruption of a novel gene for a NACâ€domain protein in rice confers resistance to <i>Rice dwarf virus</i> . Plant Journal, 2009, 57, 615-625.	5.7	84
44	The NAC transcription factor RIM1 of rice is a new regulator of jasmonate signaling. Plant Journal, 2010, 61, 804-815.	5.7	82
45	Loss of cytosolic fructoseâ€1,6â€bisphosphatase limits photosynthetic sucrose synthesis and causes severe growth retardations in rice ( <i>Oryza sativa</i> ). Plant, Cell and Environment, 2008, 31, 1851-1863.	5.7	73
46	Identification of a Putative Voltage-Gated Ca2+-permeable Channel (OsTPC1) Involved in Ca2+ Influx and Regulation of Growth and Development in Rice. Plant and Cell Physiology, 2004, 45, 693-702.	3.1	72
47	Reverseâ€genetic approach to verify physiological roles of rice phytoalexins: characterization of a knockdown mutant of <i><scp>OsCPS4</scp></i> phytoalexin biosynthetic gene in rice. Physiologia Plantarum, 2014, 150, 55-62.	5.2	71
48	Sequence-tagged sites (STSs) as standard landmarkers in the rice genome. Theoretical and Applied Genetics, 1994, 89, 728-734.	3.6	67
49	A Calmodulin-Binding Mitogen-Activated Protein Kinase Phosphatase is Induced by Wounding and Regulates the Activities of Stress-Related Mitogen-Activated Protein Kinases in Rice. Plant and Cell Physiology, 2007, 48, 332-344.	3.1	60
50	Rice Pti1a Negatively Regulates RAR1-Dependent Defense Responses. Plant Cell, 2007, 19, 2940-2951.	6.6	58
51	A Novel RNA-Recognition-Motif Protein Is Required for Premeiotic G1/S-Phase Transition in Rice (Oryza) Tj ETQq1	1 0.78431 3.5	14 <sub>5</sub> gBT /Ove
52	Loss of function mutations in the rice chromomethylase Os <scp>CMT</scp> 3a cause a burst of transposition. Plant Journal, 2015, 83, 1069-1081.	5.7	56
53	Determination of RAPD Markers in Rice and their Conversion into Sequence Tagged Sites (STSs) and STS-Specific Primers. DNA Research, 1994, 1, 139-148.	3.4	55
54	Disruption of a rice gene for α-glucan water dikinase, OsGWD1, leads to hyperaccumulation of starch in leaves but exhibits limited effects on growth. Frontiers in Plant Science, 2013, 4, 147.	3.6	55

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55	Cryptochrome and Phytochrome Cooperatively but Independently Reduce Active Gibberellin Content in Rice Seedlings under Light Irradiation. Plant and Cell Physiology, 2012, 53, 1570-1582.	3.1	48
56	Genetic Evidence for the Role of a Rice Vacuolar Invertase as a Molecular Sink Strength Determinant. Rice, 2018, 11, 6.	4.0	46
57	A loss-of-function mutation of rice DENSE PANICLE 1 causes semi-dwarfness and slightly increased number of spikelets. Breeding Science, 2011, 61, 17-25.	1.9	45
58	<i>COLLAPSED ABNORMAL POLLEN1</i> Gene Encoding the Arabinokinase-Like Protein Is Involved in Pollen Development in Rice   Â. Plant Physiology, 2013, 162, 858-871.	4.8	45
59	A rice Serine/Threonine receptor-like kinase regulates arbuscular mycorrhizal symbiosis at the peri-arbuscular membrane. Nature Communications, 2018, 9, 4677.	12.8	45
60	Transposon Insertion Finder (TIF): a novel program for detection of de novo transpositions of transposable elements. BMC Bioinformatics, 2014, 15, 71.	2.6	43
61	Physiological and genetic analyses of aluminium tolerance in rice, focusing on root growth during germination. Journal of Inorganic Biochemistry, 2005, 99, 1837-1844.	3.5	42
62	Regulation of a Proteinaceous Elicitor-induced Ca2+ Influx and Production of Phytoalexins by a Putative Voltage-gated Cation Channel, OsTPC1, in Cultured Rice Cells. Journal of Biological Chemistry, 2012, 287, 9931-9939.	3.4	39
63	Isolation of a novel lateral-rootless mutant in rice (Oryza sativa L.) with reduced sensitivity to auxin. Plant Science, 2006, 170, 70-77.	3.6	38
64	Pdk1 Kinase Regulates Basal Disease Resistance Through the OsOxi1–OsPti1a Phosphorylation Cascade in Rice. Plant and Cell Physiology, 2010, 51, 2082-2091.	3.1	36
65	Mapping of Sequence-Tagged Sites in Rice by Single Strand Conformation Polymorphism. DNA Research, 1994, 1, 271-277.	3.4	33
66	The plastid sigma factor SIG1 maintains photosystem I activity via regulated expression of the <i>psaA</i> operon in rice chloroplasts. Plant Journal, 2007, 52, 124-132.	5.7	32
67	Characterization and Genetic Mapping of Simple Sequence Repeats in the Rice Genome. DNA Research, 1996, 3, 233-238.	3.4	31
68	Production and characterization of a large population of cDNA-overexpressing transgenic rice plants using Gateway-based full-length cDNA expression libraries. Breeding Science, 2010, 60, 575-585.	1.9	31
69	CAD2 deficiency causes both brown midrib and gold hull and internode phenotypes in Oryza sativa L. cv. Nipponbare. Plant Biotechnology, 2013, 30, 365-373.	1.0	29
70	Bacillus subtilis spoVE gene is transcribed by sigma E-associated RNA polymerase. Journal of Bacteriology, 1993, 175, 4081-4086.	2.2	28
71	Root hairless 2 (rth2) mutant represents a loss-of-function allele of the cellulose synthase-like gene OsCSLD1 in rice (Oryza sativa L.). Breeding Science, 2011, 61, 225-233.	1.9	27
72	Saturation mapping with subclones of YACs: DNA marker production targeting the rice blast disease resistance gene, Pi-b. Theoretical and Applied Genetics, 1997, 94, 170-176.	3.6	26

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73	SSD1, which encodes a plant-specific novel protein, controls plant elongation by regulating cell division in rice. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2010, 86, 265-273.	3.8	24
74	Rice TOGO Browser: A Platform to Retrieve Integrated Information on Rice Functional and Applied Genomics. Plant and Cell Physiology, 2011, 52, 230-237.	3.1	24
75	Isolation of a novel mutant gene for soil-surface rooting in rice (Oryza sativa L.). Rice, 2013, 6, 30.	4.0	24
76	Two Novel Nuclear Genes, OsSIG5 and OsSIG6 , Encoding Potential Plastid Sigma Factors of RNA Polymerase in Rice: Tissue-Specific and Light-Responsive Gene Expression. Plant and Cell Physiology, 2007, 48, 186-192.	3.1	21
77	Response of an aspartic protease gene OsAP77 to fungal, bacterial and viral infections in rice. Rice, 2014, 7, 9.	4.0	20
78	The rice wound-inducible transcription factor RERJ1 sharing same signal transduction pathway with OsMYC2 is necessary for defense response to herbivory and bacterial blight. Plant Molecular Biology, 2022, 109, 651-666.	3.9	19
79	Plant Biotechniques Series (9). Systematic screening of mutants of rice by sequencing retrotransposon-insertion sites Plant Biotechnology, 1998, 15, 253-256.	1.0	19
80	Isolation and characterization of a short lateral root mutant in rice (Oryza sativa L.). Plant Science, 2003, 165, 895-903.	3.6	18
81	Negative feedback regulation of microbe-associated molecular pattern-induced cytosolic Ca2+ transients by protein phosphorylation. Journal of Plant Research, 2011, 124, 415-424.	2.4	18
82	Both OsRecQ1 and OsRDR1 Are Required for the Production of Small RNA in Response to DNA-Damage in Rice. PLoS ONE, 2013, 8, e55252.	2.5	18
83	Characterization of Chlorophyllide a Oxygenase (CAO) in Rice. Breeding Science, 2005, 55, 361-364.	1.9	17
84	In vivo expression of the Bacillus subtilis spoVE gene. Journal of Bacteriology, 1993, 175, 4071-4080.	2.2	16
85	Isolation and Characterization of Rice Phytochrome A Mutants. Plant Cell, 2001, 13, 521.	6.6	16
86	A pentatricopeptide repeat gene of rice is required for splicing of chloroplast transcripts and RNA editing of ndhA. Plant Biotechnology, 2013, 30, 57-64.	1.0	16
87	<i>&gt;OsRecQ1,</i> a <i>QDEâ€3</i> homologue in rice, is required for RNA silencing induced by particle bombardment for inverted repeat DNA, but not for doubleâ€stranded RNA. Plant Journal, 2008, 56, 274-286.	5.7	15
88	The urea transporter DUR3 contributes to rice production under nitrogenâ€deficient and field conditions. Physiologia Plantarum, 2019, 167, 75-89.	5.2	15
89	A mycorrhiza-associated receptor-like kinase with an ancient origin in the green lineage. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	15
90	Analysis of rice RNA-dependent RNA polymerase 1 (OsRDR1) in virus-mediated RNA silencing after particle bombardment. Journal of General Plant Pathology, 2010, 76, 152-160.	1.0	14

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91	Screening of RAPD Markers Linked to the Photoperiod-Sensitivity Gene in Rice Chromosome 6 Using Bulked Segregant Analysis. DNA Research, 1995, 2, 101-106.	3.4	13
92	Isolation and mapping of three rice mutants that showed ectopic expression of KNOX genes in leaves. Plant Science, 2009, 177, 131-135.	3.6	12
93	Specification of the basal region identity after asymmetric zygotic division requires mitogen-activated protein kinase 6 in rice. Development (Cambridge), 2019, 146, .	2.5	12
94	Cytosolic Glutamine Synthetase GS1;3 Is Involved in Rice Grain Ripening and Germination. Frontiers in Plant Science, 2022, 13, 835835.	3.6	12
95	Defects in root development and gravity response in the aem1 mutant of rice are associated with reduced auxin efflux. Journal of Plant Physiology, 2005, 162, 678-685.	3.5	10
96	Isolation, fine mapping and expression profiling of a lesion mimic genotype, spl NF4050-8 that confers blast resistance in rice. Theoretical and Applied Genetics, 2011, 122, 831-854.	3.6	6
97	Phenotypic analyses of rice lse2 and lse3 mutants that exhibit hyperaccumulation of starch in the leaf blades. Rice, 2014, 7, 32.	4.0	5
98	Characterisation of a rice vacuolar invertase isoform, OsINV2, for growth and yield-related traits. Functional Plant Biology, 2019, 46, 777.	2.1	5
99	Low-Damage SF[sub 6] Plasma-Etching Condition for Planar GaN HEMTs. Journal of the Electrochemical Society, 2009, 156, H68.	2.9	3
100	Polymorphic edge detection (PED): two efficient methods of polymorphism detection from next-generation sequencing data. BMC Bioinformatics, 2019, 20, 362.	2.6	3
101	Transposon-Insertion Lines of Rice for Analysis of Gene Function. , 2004, , 107-112.		1
102	Molecular Genetic Analysis of a Tos17-Tagged Mutant Line Related to Root Morphology in Rice. Ikushugaku Kenkyu, 2005, 7, 171-178.	0.3	1
103	Transposon-mediated mutagenesis and its application to plant breeding. Ikushugaku Kenkyu, 2015, 17, 77-87.	0.3	0
104	Detection of Transposition Events from Next-Generation Sequencing Data. Methods in Molecular Biology, 2021, 2250, 123-129.	0.9	0