

Hitoshi Sakakibara

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285
papers

24,330
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80
h-index

149
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302
ext. papers

29,705
ext. citations

7.2
avg, IF

6.96
L-index

#	Paper	IF	Citations
285	Cytokinin oxidase regulates rice grain production. <i>Science</i> , 2005 , 309, 741-5	33.3	1250
284	Cytokinins: activity, biosynthesis, and translocation. <i>Annual Review of Plant Biology</i> , 2006 , 57, 431-49	30.7	910
283	The ethylene response factors SNORKEL1 and SNORKEL2 allow rice to adapt to deep water. <i>Nature</i> , 2009 , 460, 1026-30	50.4	670
282	Delayed leaf senescence induces extreme drought tolerance in a flowering plant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 19631-6	11.5	631
281	Direct control of shoot meristem activity by a cytokinin-activating enzyme. <i>Nature</i> , 2007 , 445, 652-5	50.4	628
280	Enhancement of oxidative and drought tolerance in Arabidopsis by overaccumulation of antioxidant flavonoids. <i>Plant Journal</i> , 2014 , 77, 367-79	6.9	573
279	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. <i>Plant Cell</i> , 2011 , 23, 2169-83	11.6	464
278	DWARF10, an RMS1/MAX4/DAD1 ortholog, controls lateral bud outgrowth in rice. <i>Plant Journal</i> , 2007 , 51, 1019-29	6.9	434
277	PSEUDO-RESPONSE REGULATORS 9, 7, and 5 are transcriptional repressors in the Arabidopsis circadian clock. <i>Plant Cell</i> , 2010 , 22, 594-605	11.6	383
276	The AtGenExpress hormone and chemical treatment data set: experimental design, data evaluation, model data analysis and data access. <i>Plant Journal</i> , 2008 , 55, 526-542	6.9	383
275	Interactions between nitrogen and cytokinin in the regulation of metabolism and development. <i>Trends in Plant Science</i> , 2006 , 11, 440-8	13.1	367
274	Regulation of cytokinin biosynthesis, compartmentalization and translocation. <i>Journal of Experimental Botany</i> , 2008 , 59, 75-83	7	347
273	Auxin controls local cytokinin biosynthesis in the nodal stem in apical dominance. <i>Plant Journal</i> , 2006 , 45, 1028-36	6.9	338
272	Highly sensitive and high-throughput analysis of plant hormones using MS-probe modification and liquid chromatography-tandem mass spectrometry: an application for hormone profiling in <i>Oryza sativa</i> . <i>Plant and Cell Physiology</i> , 2009 , 50, 1201-14	4.9	336
271	Identification of genes encoding adenylate isopentenyltransferase, a cytokinin biosynthesis enzyme, in <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , 2001 , 276, 26405-10	5.4	332
270	Two cytosolic glutamine synthetase isoforms of maize are specifically involved in the control of grain production. <i>Plant Cell</i> , 2006 , 18, 3252-74	11.6	331
269	Hormonal control of nitrogen acquisition: roles of auxin, abscisic acid, and cytokinin. <i>Journal of Experimental Botany</i> , 2011 , 62, 1399-409	7	315

268	Nitrogen-dependent accumulation of cytokinins in root and the translocation to leaf: implication of cytokinin species that induces gene expression of maize response regulator. <i>Plant and Cell Physiology</i> , 2001 , 42, 85-93	4.9	309
267	AtIPT3 is a key determinant of nitrate-dependent cytokinin biosynthesis in Arabidopsis. <i>Plant and Cell Physiology</i> , 2004 , 45, 1053-62	4.9	295
266	The cytokinin-activated transcription factor ARR2 promotes plant immunity via TGA3/NPR1-dependent salicylic acid signaling in Arabidopsis. <i>Developmental Cell</i> , 2010 , 19, 284-95	10.2	277
265	Functional analyses of LONELY GUY cytokinin-activating enzymes reveal the importance of the direct activation pathway in Arabidopsis. <i>Plant Cell</i> , 2009 , 21, 3152-69	11.6	269
264	Arabidopsis CYP735A1 and CYP735A2 encode cytokinin hydroxylases that catalyze the biosynthesis of trans-Zeatin. <i>Journal of Biological Chemistry</i> , 2004 , 279, 41866-72	5.4	268
263	The AP2/ERF transcription factor WIND1 controls cell dedifferentiation in Arabidopsis. <i>Current Biology</i> , 2011 , 21, 508-14	6.3	246
262	The AtGenExpress hormone and chemical treatment data set: experimental design, data evaluation, model data analysis and data access. <i>Plant Journal</i> , 2008 , 55, 526-42	6.9	238
261	The Arabidopsis nitrate transporter NRT2.4 plays a double role in roots and shoots of nitrogen-starved plants. <i>Plant Cell</i> , 2012 , 24, 245-58	11.6	233
260	Transcript profiling of an Arabidopsis PSEUDO RESPONSE REGULATOR arrhythmic triple mutant reveals a role for the circadian clock in cold stress response. <i>Plant and Cell Physiology</i> , 2009 , 50, 447-62	4.9	203
259	Metabolism and long-distance translocation of cytokinins. <i>Journal of Integrative Plant Biology</i> , 2010 , 52, 53-60	8.3	201
258	Impact of clock-associated Arabidopsis pseudo-response regulators in metabolic coordination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 7251-6	11.5	200
257	Multiple routes communicating nitrogen availability from roots to shoots: a signal transduction pathway mediated by cytokinin. <i>Journal of Experimental Botany</i> , 2002 , 53, 971-7	7	198
256	Transcriptional repressor PRR5 directly regulates clock-output pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 17123-8	11.5	197
255	Abscisic acid interacts antagonistically with salicylic acid signaling pathway in rice-Magnaporthe grisea interaction. <i>Molecular Plant-Microbe Interactions</i> , 2010 , 23, 791-8	3.6	196
254	Phloem-transported cytokinin regulates polar auxin transport and maintains vascular pattern in the root meristem. <i>Current Biology</i> , 2011 , 21, 927-32	6.3	194
253	A response-regulator homologue possibly involved in nitrogen signal transduction mediated by cytokinin in maize. <i>Plant Journal</i> , 1998 , 14, 337-44	6.9	193
252	Targeted degradation of PSEUDO-RESPONSE REGULATOR5 by an SCFZTL complex regulates clock function and photomorphogenesis in Arabidopsis thaliana. <i>Plant Cell</i> , 2007 , 19, 2516-30	11.6	192
251	Expression of Arabidopsis response regulator homologs is induced by cytokinins and nitrate. <i>FEBS Letters</i> , 1998 , 429, 259-62	3.8	184

250	Arabidopsis ABCG14 is essential for the root-to-shoot translocation of cytokinin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7150-5	11.5	183
249	Identification of cis-acting promoter elements in cold- and dehydration-induced transcriptional pathways in Arabidopsis, rice, and soybean. <i>DNA Research</i> , 2012 , 19, 37-49	4.5	183
248	Ectopic expression of KNOTTED1-like homeobox protein induces expression of cytokinin biosynthesis genes in rice. <i>Plant Physiology</i> , 2006 , 142, 54-62	6.6	175
247	Integrated analysis of the effects of cold and dehydration on rice metabolites, phytohormones, and gene transcripts. <i>Plant Physiology</i> , 2014 , 164, 1759-71	6.6	172
246	Molecular characterization of cytokinin-responsive histidine kinases in maize. Differential ligand preferences and response to cis-zeatin. <i>Plant Physiology</i> , 2004 , 134, 1654-61	6.6	167
245	The Arabidopsis nitrate transporter NRT2.5 plays a role in nitrate acquisition and remobilization in nitrogen-starved plants. <i>Plant Journal</i> , 2014 , 80, 230-41	6.9	164
244	Comprehensive transcriptome analysis of phytohormone biosynthesis and signaling genes in microspore/pollen and tapetum of rice. <i>Plant and Cell Physiology</i> , 2008 , 49, 1429-50	4.9	158
243	The GID1-mediated gibberellin perception mechanism is conserved in the Lycophyte <i>Selaginella moellendorffii</i> but not in the Bryophyte <i>Physcomitrella patens</i> . <i>Plant Cell</i> , 2007 , 19, 3058-79	11.6	158
242	Rare allele of a previously unidentified histone H4 acetyltransferase enhances grain weight, yield, and plant biomass in rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 76-81	11.5	156
241	Sterol side chain reductase 2 is a key enzyme in the biosynthesis of cholesterol, the common precursor of toxic steroidal glycoalkaloids in potato. <i>Plant Cell</i> , 2014 , 26, 3763-74	11.6	155
240	Type-B ARR transcription factors, ARR10 and ARR12, are implicated in cytokinin-mediated regulation of protoxylem differentiation in roots of <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2007 , 48, 84-96	4.9	154
239	Shoot-derived cytokinins systemically regulate root nodulation. <i>Nature Communications</i> , 2014 , 5, 4983	17.4	153
238	A putative peroxisomal polyamine oxidase, AtPAO4, is involved in polyamine catabolism in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2008 , 49, 1272-82	4.9	148
237	Overexpression of a type-A response regulator alters rice morphology and cytokinin metabolism. <i>Plant and Cell Physiology</i> , 2007 , 48, 523-39	4.9	146
236	Involvement of auxin and brassinosteroid in the regulation of petiole elongation under the shade. <i>Plant Physiology</i> , 2010 , 153, 1608-18	6.6	143
235	Distinct isoprenoid origins of cis- and trans-zeatin biosyntheses in Arabidopsis. <i>Journal of Biological Chemistry</i> , 2004 , 279, 14049-54	5.4	137
234	Combinatorial microarray analysis revealing arabidopsis genes implicated in cytokinin responses through the His->Asp Phosphorelay circuitry. <i>Plant and Cell Physiology</i> , 2005 , 46, 339-55	4.9	136
233	Side-chain modification of cytokinins controls shoot growth in Arabidopsis. <i>Developmental Cell</i> , 2013 , 27, 452-61	10.2	130

232	Acetate-mediated novel survival strategy against drought in plants. <i>Nature Plants</i> , 2017 , 3, 17097	11.5	129
231	Differential interaction of maize root ferredoxin:NADP(+) oxidoreductase with photosynthetic and non-photosynthetic ferredoxin isoproteins. <i>Plant Physiology</i> , 2000 , 123, 1037-45	6.6	127
230	Interactions between nitrate and ammonium in their uptake, allocation, assimilation, and signaling in plants. <i>Journal of Experimental Botany</i> , 2017 , 68, 2501-2512	7	126
229	Arabidopsis lonely guy (LOG) multiple mutants reveal a central role of the LOG-dependent pathway in cytokinin activation. <i>Plant Journal</i> , 2012 , 69, 355-65	6.9	123
228	Suppression of α -amylase genes improves quality of rice grain ripened under high temperature. <i>Plant Biotechnology Journal</i> , 2012 , 10, 1110-7	11.6	122
227	A bHLH complex activates vascular cell division via cytokinin action in root apical meristem. <i>Current Biology</i> , 2014 , 24, 2053-8	6.3	116
226	Cytokinins act synergistically with salicylic acid to activate defense gene expression in rice. <i>Molecular Plant-Microbe Interactions</i> , 2013 , 26, 287-96	3.6	113
225	Wounding Triggers Callus Formation via Dynamic Hormonal and Transcriptional Changes. <i>Plant Physiology</i> , 2017 , 175, 1158-1174	6.6	111
224	Ligand-binding properties and subcellular localization of maize cytokinin receptors. <i>Journal of Experimental Botany</i> , 2011 , 62, 5149-59	7	108
223	Cytokinin activity of cis-zeatin and phenotypic alterations induced by overexpression of putative cis-Zeatin-O-glucosyltransferase in rice. <i>Plant Physiology</i> , 2012 , 160, 319-31	6.6	105
222	Arabidopsis response regulator, ARR22, ectopic expression of which results in phenotypes similar to the wol cytokinin-receptor mutant. <i>Plant and Cell Physiology</i> , 2004 , 45, 1063-77	4.9	104
221	Cytokinin and Auxin Display Distinct but Interconnected Distribution and Signaling Profiles to Stimulate Cambial Activity. <i>Current Biology</i> , 2016 , 26, 1990-1997	6.3	103
220	A NIGT1-centred transcriptional cascade regulates nitrate signalling and incorporates phosphorus starvation signals in Arabidopsis. <i>Nature Communications</i> , 2018 , 9, 1376	17.4	101
219	Systematic approaches to using the FOX hunting system to identify useful rice genes. <i>Plant Journal</i> , 2009 , 57, 883-94	6.9	99
218	Temporal and spatial changes in gene expression, metabolite accumulation and phytohormone content in rice seedlings grown under drought stress conditions. <i>Plant Journal</i> , 2017 , 90, 61-78	6.9	98
217	Atomic structure of plant glutamine synthetase: a key enzyme for plant productivity. <i>Journal of Biological Chemistry</i> , 2006 , 281, 29287-96	5.4	98
216	Functional characterization and expression analysis of a gene, OsENT2, encoding an equilibrative nucleoside transporter in rice suggest a function in cytokinin transport. <i>Plant Physiology</i> , 2005 , 138, 196-206	6.6	98
215	WUSCHEL-RELATED HOMEBOX4 is involved in meristem maintenance and is negatively regulated by the CLE gene FCP1 in rice. <i>Plant Cell</i> , 2013 , 25, 229-41	11.6	97

214	Agrobacterium tumefaciens increases cytokinin production in plastids by modifying the biosynthetic pathway in the host plant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 9972-7	11.5	95
213	Destination-selective long-distance movement of phloem proteins. <i>Plant Cell</i> , 2005 , 17, 1801-14	11.6	93
212	Studies of aberrant phyllotaxy1 mutants of maize indicate complex interactions between auxin and cytokinin signaling in the shoot apical meristem. <i>Plant Physiology</i> , 2009 , 150, 205-16	6.6	92
211	Molecular basis for cytokinin biosynthesis. <i>Phytochemistry</i> , 2009 , 70, 444-9	4	92
210	Mechanisms underlying robustness and tunability in a plant immune signaling network. <i>Cell Host and Microbe</i> , 2014 , 15, 84-94	23.4	90
209	Ethylene-gibberellin signaling underlies adaptation of rice to periodic flooding. <i>Science</i> , 2018 , 361, 181-186	39.3	89
208	Salicylic Acid and Jasmonic Acid Pathways are Activated in Spatially Different Domains Around the Infection Site During Effector-Triggered Immunity in Arabidopsis thaliana. <i>Plant and Cell Physiology</i> , 2018 , 59, 8-16	4.9	86
207	Rice phytochrome-interacting factor-like protein OsPIL1 functions as a key regulator of internode elongation and induces a morphological response to drought stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15947-52	11.5	84
206	Synthesis of very-long-chain fatty acids in the epidermis controls plant organ growth by restricting cell proliferation. <i>PLoS Biology</i> , 2013 , 11, e1001531	9.7	83
205	Systemic transport of trans-zeatin and its precursor have differing roles in Arabidopsis shoots. <i>Nature Plants</i> , 2017 , 3, 17112	11.5	80
204	Gibberellins interfere with symbiosis signaling and gene expression and alter colonization by arbuscular mycorrhizal fungi in Lotus japonicus. <i>Plant Physiology</i> , 2015 , 167, 545-57	6.6	79
203	Molecular cloning and differential expression of the maize ferredoxin gene family. <i>Plant Physiology</i> , 1991 , 96, 77-83	6.6	78
202	Regulatory roles of cytokinins and cytokinin signaling in response to potassium deficiency in Arabidopsis. <i>PLoS ONE</i> , 2012 , 7, e47797	3.7	77
201	Repression of Nitrogen Starvation Responses by Members of the Arabidopsis GARP-Type Transcription Factor NIGT1/HRS1 Subfamily. <i>Plant Cell</i> , 2018 , 30, 925-945	11.6	76
200	Ethylene suppresses tomato (Solanum lycopersicum) fruit set through modification of gibberellin metabolism. <i>Plant Journal</i> , 2015 , 83, 237-51	6.9	76
199	Partial Characterization of the Signaling Pathway for the Nitrate-Dependent Expression of Genes for Nitrogen-Assimilatory Enzymes Using Detached Maize Leaves. <i>Plant and Cell Physiology</i> , 1997 , 38, 837-843	4.9	76
198	Nitrate-specific and cytokinin-mediated nitrogen signaling pathways in plants. <i>Journal of Plant Research</i> , 2003 , 116, 253-7	2.6	76
197	Deep rooting conferred by DEEPER ROOTING 1 enhances rice yield in paddy fields. <i>Scientific Reports</i> , 2014 , 4, 5563	4.9	75

196	The highly buffered Arabidopsis immune signaling network conceals the functions of its components. <i>PLoS Genetics</i> , 2017 , 13, e1006639	6	74
195	N-glucosyltransferase UGT76C2 is involved in cytokinin homeostasis and cytokinin response in Arabidopsis thaliana. <i>Plant and Cell Physiology</i> , 2011 , 52, 2200-13	4.9	74
194	An efficient DNA- and selectable-marker-free genome-editing system using zygotes in rice. <i>Nature Plants</i> , 2019 , 5, 363-368	11.5	72
193	Reduction of gibberellin by low temperature disrupts pollen development in rice. <i>Plant Physiology</i> , 2014 , 164, 2011-9	6.6	72
192	Nitrogen-dependent regulation of de novo cytokinin biosynthesis in rice: the role of glutamine metabolism as an additional signal. <i>Plant and Cell Physiology</i> , 2013 , 54, 1881-93	4.9	70
191	Constitutive activation of a CC-NB-LRR protein alters morphogenesis through the cytokinin pathway in Arabidopsis. <i>Plant Journal</i> , 2008 , 55, 14-27	6.9	70
190	Phytochromes and cryptochromes regulate the differential growth of Arabidopsis hypocotyls in both a PGP19-dependent and a PGP19-independent manner. <i>Plant Journal</i> , 2008 , 53, 516-29	6.9	68
189	Gibberellin biosynthesis and signal transduction is essential for internode elongation in deepwater rice. <i>Plant, Cell and Environment</i> , 2014 , 37, 2313-24	8.4	67
188	LIGHT-REGULATED WD1 and PSEUDO-RESPONSE REGULATOR9 form a positive feedback regulatory loop in the Arabidopsis circadian clock. <i>Plant Cell</i> , 2011 , 23, 486-98	11.6	67
187	Cytokinin biosynthesis and perception. <i>Physiologia Plantarum</i> , 2006 , 126, 528-538	4.6	67
186	Effector-Triggered Immunity Determines Host Genotype-Specific Incompatibility in Legume-Rhizobium Symbiosis. <i>Plant and Cell Physiology</i> , 2016 , 57, 1791-800	4.9	66
185	Q&A: How do plants respond to cytokinins and what is their importance?. <i>BMC Biology</i> , 2015 , 13, 102	7.3	65
184	RSS1 regulates the cell cycle and maintains meristematic activity under stress conditions in rice. <i>Nature Communications</i> , 2011 , 2, 278	17.4	65
183	WAVY LEAF1, an ortholog of Arabidopsis HEN1, regulates shoot development by maintaining MicroRNA and trans-acting small interfering RNA accumulation in rice. <i>Plant Physiology</i> , 2010 , 154, 1335-46	6.6	65
182	Gene expression and sensitivity in response to copper stress in rice leaves. <i>Journal of Experimental Botany</i> , 2008 , 59, 3465-74	7	65
181	Metabolomic screening applied to rice FOX Arabidopsis lines leads to the identification of a gene-changing nitrogen metabolism. <i>Molecular Plant</i> , 2010 , 3, 125-42	14.4	63
180	A nitrate-inducible ferredoxin in maize roots. Genomic organization and differential expression of two nonphotosynthetic ferredoxin isoproteins. <i>Plant Physiology</i> , 1997 , 114, 653-60	6.6	63
179	Arabidopsis SOI33/AtENT8 Gene Encodes a Putative Equilibrative Nucleoside Transporter That Is Involved in Cytokinin Transport In Planta. <i>Journal of Integrative Plant Biology</i> , 2005 , 47, 588-603	8.3	63

178	Regulation of sulfur-responsive gene expression by exogenously applied cytokinins in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2002 , 43, 1493-501	4.9	62
177	The Gibberellin perception system evolved to regulate a pre-existing GAMYB-mediated system during land plant evolution. <i>Nature Communications</i> , 2011 , 2, 544	17.4	61
176	Regulation of the KNOX-GA gene module induces heterophyllic alteration in North American lake cress. <i>Plant Cell</i> , 2014 , 26, 4733-48	11.6	60
175	Genome Sequence of <i>Striga asiatica</i> Provides Insight into the Evolution of Plant Parasitism. <i>Current Biology</i> , 2019 , 29, 3041-3052.e4	6.3	59
174	The COP1 ortholog PPS regulates the juvenile-adult and vegetative-reproductive phase changes in rice. <i>Plant Cell</i> , 2011 , 23, 2143-54	11.6	59
173	Reverse genetics approach to characterize a function of NADH-glutamate synthase1 in rice plants. <i>Amino Acids</i> , 2010 , 39, 1003-12	3.5	58
172	A link between cytokinin and ASL9 (ASYMMETRIC LEAVES 2 LIKE 9) that belongs to the AS2/LOB (LATERAL ORGAN BOUNDARIES) family genes in <i>Arabidopsis thaliana</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2007 , 71, 1269-78	2.1	58
171	Genome-wide direct target analysis reveals a role for SHORT-ROOT in root vascular patterning through cytokinin homeostasis. <i>Plant Physiology</i> , 2011 , 157, 1221-31	6.6	57
170	UGT74D1 catalyzes the glucosylation of 2-oxindole-3-acetic acid in the auxin metabolic pathway in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2014 , 55, 218-28	4.9	56
169	Genetic networks regulated by ASYMMETRIC LEAVES1 (AS1) and AS2 in leaf development in <i>Arabidopsis thaliana</i> : KNOX genes control five morphological events. <i>Plant Journal</i> , 2010 , 61, 70-82	6.9	56
168	PLASTOCHRON3/GOLIATH encodes a glutamate carboxypeptidase required for proper development in rice. <i>Plant Journal</i> , 2009 , 58, 1028-40	6.9	56
167	Complementary DNA cloning and characterization of ferredoxin localized in bundle-sheath cells of maize leaves. <i>Plant Physiology</i> , 1999 , 119, 481-8	6.6	56
166	His-Asp phosphotransfer possibly involved in the nitrogen signal transduction mediated by cytokinin in maize: molecular cloning of cDNAs for two-component regulatory factors and demonstration of phosphotransfer activity in vitro. <i>Plant Molecular Biology</i> , 1999 , 41, 563-73	4.6	56
165	Cytokinin-Mediated Regulation of Reactive Oxygen Species Homeostasis Modulates Stomatal Immunity in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2017 , 29, 543-559	11.6	55
164	RiceFOX: a database of <i>Arabidopsis</i> mutant lines overexpressing rice full-length cDNA that contains a wide range of trait information to facilitate analysis of gene function. <i>Plant and Cell Physiology</i> , 2011 , 52, 265-73	4.9	55
163	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. <i>Plant Molecular Biology</i> , 2003 , 52, 331-41	4.6	54
162	Interspecies hormonal control of host root morphology by parasitic plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5283-5288	11.5	53
161	Auxin-associated initiation of vascular cell differentiation by LONESOME HIGHWAY. <i>Development (Cambridge)</i> , 2013 , 140, 765-9	6.6	53

160	Sulphur limitation and early sulphur deficiency responses in poplar: significance of gene expression, metabolites, and plant hormones. <i>Journal of Experimental Botany</i> , 2012 , 63, 1873-93	7	53
159	AHK5 histidine kinase regulates root elongation through an ETR1-dependent abscisic acid and ethylene signaling pathway in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2007 , 48, 375-80	4.9	53
158	Methylated Cytokinins from the Phytopathogen <i>Rhodococcus fascians</i> Mimic Plant Hormone Activity. <i>Plant Physiology</i> , 2015 , 169, 1118-26	6.6	52
157	Ectopic expression of specific GA2 oxidase mutants promotes yield and stress tolerance in rice. <i>Plant Biotechnology Journal</i> , 2017 , 15, 850-864	11.6	51
156	The Maize Viviparous8 locus, encoding a putative ALTERED MERISTEM PROGRAM1-like peptidase, regulates abscisic acid accumulation and coordinates embryo and endosperm development. <i>Plant Physiology</i> , 2008 , 146, 1193-206	6.6	51
155	Mesophyll conductance decreases in the wild type but not in an ABA-deficient mutant (<i>aba1</i>) of <i>Nicotiana glauca</i> under drought conditions. <i>Plant, Cell and Environment</i> , 2015 , 38, 388-98	8.4	50
154	His-Asp phosphorelay signaling: a communication avenue between plants and their environment. <i>Plant Molecular Biology</i> , 2000 , 42, 273-8	4.6	50
153	Molecular identification and characterization of cytosolic isoforms of glutamine synthetase in maize roots. <i>Journal of Biological Chemistry</i> , 1996 , 271, 29561-8	5.4	50
152	OsGA20ox1, a candidate gene for a major QTL controlling seedling vigor in rice. <i>Theoretical and Applied Genetics</i> , 2012 , 125, 647-57	6	49
151	Topolins and hydroxylated thidiazuron derivatives are substrates of cytokinin O-glucosyltransferase with position specificity related to receptor recognition. <i>Plant Physiology</i> , 2005 , 137, 1057-66	6.6	49
150	Overexpression of a petunia zinc-finger gene alters cytokinin metabolism and plant forms. <i>Plant Journal</i> , 2005 , 41, 512-23	6.9	49
149	High CO ₂ triggers preferential root growth of <i>Arabidopsis thaliana</i> via two distinct systems under low pH and low N stresses. <i>Plant and Cell Physiology</i> , 2014 , 55, 269-80	4.9	48
148	Immunological analysis of the phosphorylation state of maize C4-form phosphoenolpyruvate carboxylase with specific antibodies raised against a synthetic phosphorylated peptide. <i>Plant Journal</i> , 2000 , 21, 17-26	6.9	48
147	Presence versus absence of CYP734A50 underlies the style-length dimorphism in primroses. <i>ELife</i> , 2016 , 5,	8.9	48
146	Isolation and characterization of a cDNA that encodes maize glutamate dehydrogenase. <i>Plant and Cell Physiology</i> , 1995 , 36, 789-97	4.9	47
145	A genome resource for green millet <i>Setaria viridis</i> enables discovery of agronomically valuable loci. <i>Nature Biotechnology</i> , 2020 , 38, 1203-1210	44.5	43
144	Identification of Cytokinin Biosynthesis Genes in <i>Arabidopsis</i> : A Breakthrough for Understanding the Metabolic Pathway and the Regulation in Higher Plants. <i>Journal of Plant Growth Regulation</i> , 2002 , 21, 17-23	4.7	41
143	Isolation and characterization of a cDNA that encodes maize uroporphyrinogen III methyltransferase, an enzyme involved in the synthesis of heme, which is prosthetic group of nitrite reductase. <i>Plant Journal</i> , 1996 , 10, 883-92	6.9	41

142	Cytokinin receptors are required for normal development of auxin-transporting vascular tissues in the hypocotyl but not in adventitious roots. <i>Plant and Cell Physiology</i> , 2006 , 47, 234-43	4.9	40
141	Jasmonate regulates juvenile-to-adult phase transition in rice. <i>Development (Cambridge)</i> , 2016 , 143, 3407-16	7.66	40
140	SUPERMAN regulates floral whorl boundaries through control of auxin biosynthesis. <i>EMBO Journal</i> , 2018 , 37,	13	39
139	Highly sensitive high-throughput profiling of six phytohormones using MS-probe modification and liquid chromatography-tandem mass spectrometry. <i>Methods in Molecular Biology</i> , 2012 , 918, 151-64	1.4	38
138	The reduction in maize leaf growth under mild drought affects the transition between cell division and cell expansion and cannot be restored by elevated gibberellic acid levels. <i>Plant Biotechnology Journal</i> , 2018 , 16, 615-627	11.6	37
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20	Gene expression evolution in pattern-triggered immunity within <i>Arabidopsis thaliana</i> and across Brassicaceae species		2
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12	DNA damage inhibits root growth by enhancing cytokinin biosynthesis in <i>Arabidopsis thaliana</i>		1
11	The molecular framework of heterophylly in <i>Callitriche palustris</i> L. differs from that in other amphibious plants		1
10	Molecular and Biochemical Differences in Leaf Explants and the Implication for Regeneration Ability in (Brassicaceae). <i>Plants</i> , 2020 , 9,	4.5	1
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