

Kazuko Yamaguchi-Shinozaki

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#	Paper	IF	Citations
322	Two transcription factors, DREB1 and DREB2, with an EREBP/AP2 DNA binding domain separate two cellular signal transduction pathways in drought- and low-temperature-responsive gene expression, respectively, in Arabidopsis. <i>Plant Cell</i> , 1998 , 10, 1391-406	11.6	2259
321	Transcriptional regulatory networks in cellular responses and tolerance to dehydration and cold stresses. <i>Annual Review of Plant Biology</i> , 2006 , 57, 781-803	30.7	2136
320	A novel cis-acting element in an Arabidopsis gene is involved in responsiveness to drought, low-temperature, or high-salt stress. <i>Plant Cell</i> , 1994 , 6, 251-64	11.6	1655
319	The complete nucleotide sequence of the tobacco chloroplast genome: its gene organization and expression. <i>EMBO Journal</i> , 1986 , 5, 2043-2049	13	1647
318	Improving plant drought, salt, and freezing tolerance by gene transfer of a single stress-inducible transcription factor. <i>Nature Biotechnology</i> , 1999 , 17, 287-91	44.5	1632
317	Gene networks involved in drought stress response and tolerance. <i>Journal of Experimental Botany</i> , 2007 , 58, 221-7	7	1627
316	Arabidopsis AtMYC2 (bHLH) and AtMYB2 (MYB) function as transcriptional activators in abscisic acid signaling. <i>Plant Cell</i> , 2003 , 15, 63-78	11.6	1552
315	Monitoring the expression profiles of 7000 Arabidopsis genes under drought, cold and high-salinity stresses using a full-length cDNA microarray. <i>Plant Journal</i> , 2002 , 31, 279-92	6.9	1501
314	Regulatory network of gene expression in the drought and cold stress responses. <i>Current Opinion in Plant Biology</i> , 2003 , 6, 410-7	9.9	1398
313	Crosstalk between abiotic and biotic stress responses: a current view from the points of convergence in the stress signaling networks. <i>Current Opinion in Plant Biology</i> , 2006 , 9, 436-42	9.9	1340
312	DNA-binding specificity of the ERF/AP2 domain of Arabidopsis DREBs, transcription factors involved in dehydration- and cold-inducible gene expression. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 290, 998-1009	3.4	1248
311	Molecular responses to dehydration and low temperature: differences and cross-talk between two stress signaling pathways. <i>Current Opinion in Plant Biology</i> , 2000 , 3, 217-223	9.9	1206
310	OsDREB genes in rice, <i>Oryza sativa</i> L., encode transcription activators that function in drought-, high-salt- and cold-responsive gene expression. <i>Plant Journal</i> , 2003 , 33, 751-63	6.9	1152
309	Isolation and functional analysis of Arabidopsis stress-inducible NAC transcription factors that bind to a drought-responsive cis-element in the early responsive to dehydration stress 1 promoter. <i>Plant Cell</i> , 2004 , 16, 2481-98	11.6	1040
308	Arabidopsis basic leucine zipper transcription factors involved in an abscisic acid-dependent signal transduction pathway under drought and high-salinity conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 11632-7	11.5	988
307	Organization of cis-acting regulatory elements in osmotic- and cold-stress-responsive promoters. <i>Trends in Plant Science</i> , 2005 , 10, 88-94	13.1	961
306	Monitoring the expression pattern of 1300 Arabidopsis genes under drought and cold stresses by using a full-length cDNA microarray. <i>Plant Cell</i> , 2001 , 13, 61-72	11.6	910

305	Gene Expression and Signal Transduction in Water-Stress Response. <i>Plant Physiology</i> , 1997 , 115, 327-334	6	899
304	Regulation of drought tolerance by gene manipulation of 9-cis-epoxycarotenoid dioxygenase, a key enzyme in abscisic acid biosynthesis in Arabidopsis. <i>Plant Journal</i> , 2001 , 27, 325-33	6.9	896
303	Transcriptional regulatory networks in response to abiotic stresses in Arabidopsis and grasses. <i>Plant Physiology</i> , 2009 , 149, 88-95	6.6	858
302	Important roles of drought- and cold-inducible genes for galactinol synthase in stress tolerance in Arabidopsis thaliana. <i>Plant Journal</i> , 2002 , 29, 417-26	6.9	835
301	Role of arabidopsis MYC and MYB homologs in drought- and abscisic acid-regulated gene expression. <i>Plant Cell</i> , 1997 , 9, 1859-68	11.6	825
300	AP2/ERF family transcription factors in plant abiotic stress responses. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2012 , 1819, 86-96	6	803
299	Monitoring expression profiles of rice genes under cold, drought, and high-salinity stresses and abscisic acid application using cDNA microarray and RNA gel-blot analyses. <i>Plant Physiology</i> , 2003 , 133, 1755-67	6.6	799
298	Functional analysis of a NAC-type transcription factor OsNAC6 involved in abiotic and biotic stress-responsive gene expression in rice. <i>Plant Journal</i> , 2007 , 51, 617-30	6.9	782
297	Functional analysis of an Arabidopsis transcription factor, DREB2A, involved in drought-responsive gene expression. <i>Plant Cell</i> , 2006 , 18, 1292-309	11.6	780
296	A dehydration-induced NAC protein, RD26, is involved in a novel ABA-dependent stress-signaling pathway. <i>Plant Journal</i> , 2004 , 39, 863-76	6.9	693
295	Type 2C protein phosphatases directly regulate abscisic acid-activated protein kinases in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 17588-93	11.5	681
294	Functional analysis of rice DREB1/CBF-type transcription factors involved in cold-responsive gene expression in transgenic rice. <i>Plant and Cell Physiology</i> , 2006 , 47, 141-53	4.9	671
293	ABA-mediated transcriptional regulation in response to osmotic stress in plants. <i>Journal of Plant Research</i> , 2011 , 124, 509-25	2.6	650
292	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. <i>Plant Journal</i> , 2010 , 61, 672-85	6.9	647
291	AREB1 is a transcription activator of novel ABRE-dependent ABA signaling that enhances drought stress tolerance in Arabidopsis. <i>Plant Cell</i> , 2005 , 17, 3470-88	11.6	638
290	Molecular basis of the core regulatory network in ABA responses: sensing, signaling and transport. <i>Plant and Cell Physiology</i> , 2010 , 51, 1821-39	4.9	612
289	NAC transcription factors in plant abiotic stress responses. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2012 , 1819, 97-103	6	594
288	Abscisic acid-dependent multisite phosphorylation regulates the activity of a transcription activator AREB1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 1988-93	11.5	578

287	Engineering drought tolerance in plants: discovering and tailoring genes to unlock the future. <i>Current Opinion in Biotechnology</i> , 2006 , 17, 113-22	11.4	575
286	Dual function of an Arabidopsis transcription factor DREB2A in water-stress-responsive and heat-stress-responsive gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 18822-7	11.5	561
285	A combination of the Arabidopsis DREB1A gene and stress-inducible rd29A promoter improved drought- and low-temperature stress tolerance in tobacco by gene transfer. <i>Plant and Cell Physiology</i> , 2004 , 45, 346-50	4.9	527
284	Interaction between two cis-acting elements, ABRE and DRE, in ABA-dependent expression of Arabidopsis rd29A gene in response to dehydration and high-salinity stresses. <i>Plant Journal</i> , 2003 , 34, 137-48	6.9	516
283	ABA-dependent and ABA-independent signaling in response to osmotic stress in plants. <i>Current Opinion in Plant Biology</i> , 2014 , 21, 133-139	9.9	513
282	The transcriptional regulatory network in the drought response and its crosstalk in abiotic stress responses including drought, cold, and heat. <i>Frontiers in Plant Science</i> , 2014 , 5, 170	6.2	499
281	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. <i>Plant and Cell Physiology</i> , 2009 , 50, 1345-63	4.9	495
280	Identification of cold-inducible downstream genes of the Arabidopsis DREB1A/CBF3 transcriptional factor using two microarray systems. <i>Plant Journal</i> , 2004 , 38, 982-93	6.9	479
279	Regulation of levels of proline as an osmolyte in plants under water stress. <i>Plant and Cell Physiology</i> , 1997 , 38, 1095-102	4.9	478
278	Functional analysis of AHK1/ATHK1 and cytokinin receptor histidine kinases in response to abscisic acid, drought, and salt stress in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 20623-8	11.5	469
277	An Arabidopsis myb homolog is induced by dehydration stress and its gene product binds to the conserved MYB recognition sequence. <i>Plant Cell</i> , 1993 , 5, 1529-39	11.6	469
276	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
275	A transmembrane hybrid-type histidine kinase in Arabidopsis functions as an osmosensor. <i>Plant Cell</i> , 1999 , 11, 1743-54	11.6	464
274	Arabidopsis Cys2/His2-type zinc-finger proteins function as transcription repressors under drought, cold, and high-salinity stress conditions. <i>Plant Physiology</i> , 2004 , 136, 2734-46	6.6	458
273	Three SnRK2 protein kinases are the main positive regulators of abscisic acid signaling in response to water stress in Arabidopsis. <i>Plant and Cell Physiology</i> , 2009 , 50, 2123-32	4.9	457
272	Transcriptional Regulatory Network of Plant Heat Stress Response. <i>Trends in Plant Science</i> , 2017 , 22, 53-65	13.1	451
271	A gene encoding a mitogen-activated protein kinase kinase kinase is induced simultaneously with genes for a mitogen-activated protein kinase and an S6 ribosomal protein kinase by touch, cold, and water stress in Arabidopsis thaliana. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 765-9	11.5	451
270	Characterization of the ABA-regulated global responses to dehydration in Arabidopsis by metabolomics. <i>Plant Journal</i> , 2009 , 57, 1065-78	6.9	427

269	Structural basis of abscisic acid signalling. <i>Nature</i> , 2009 , 462, 609-14	50.4	406
268	ABA signaling in stress-response and seed development. <i>Plant Cell Reports</i> , 2013 , 32, 959-70	5.1	403
267	Characterization of the expression of a desiccation-responsive rd29 gene of <i>Arabidopsis thaliana</i> and analysis of its promoter in transgenic plants. <i>Molecular Genetics and Genomics</i> , 1993 , 236, 331-40		400
266	Correlation between the induction of a gene for delta 1-pyrroline-5-carboxylate synthetase and the accumulation of proline in <i>Arabidopsis thaliana</i> under osmotic stress. <i>Plant Journal</i> , 1995 , 7, 751-60	6.9	395
265	Cytokinins: metabolism and function in plant adaptation to environmental stresses. <i>Trends in Plant Science</i> , 2012 , 17, 172-9	13.1	377
264	Molecular responses to drought and cold stress. <i>Current Opinion in Biotechnology</i> , 1996 , 7, 161-7	11.4	372
263	Positive regulatory role of strigolactone in plant responses to drought and salt stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 851-6	11.5	370
262	Molecular responses to drought, salinity and frost: common and different paths for plant protection. <i>Current Opinion in Biotechnology</i> , 2003 , 14, 194-9	11.4	368
261	<i>Arabidopsis</i> DREB2A-interacting proteins function as RING E3 ligases and negatively regulate plant drought stress-responsive gene expression. <i>Plant Cell</i> , 2008 , 20, 1693-707	11.6	361
260	Regulation and functional analysis of ZmDREB2A in response to drought and heat stresses in <i>Zea mays</i> L. <i>Plant Journal</i> , 2007 , 50, 54-69	6.9	353
259	Monitoring the expression pattern of around 7,000 <i>Arabidopsis</i> genes under ABA treatments using a full-length cDNA microarray. <i>Functional and Integrative Genomics</i> , 2002 , 2, 282-91	3.8	353
258	Achievements and challenges in understanding plant abiotic stress responses and tolerance. <i>Plant and Cell Physiology</i> , 2011 , 52, 1569-82	4.9	347
257	Antisense suppression of proline degradation improves tolerance to freezing and salinity in <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 1999 , 461, 205-10	3.8	345
256	Molecular Cloning and Characterization of 9 cDNAs for Genes That Are Responsive to Desiccation in <i>Arabidopsis thaliana</i> : Sequence Analysis of One cDNA Clone That Encodes a Putative Transmembrane Channel Protein. <i>Plant and Cell Physiology</i> , 1992 , 33, 217-224	4.9	338
255	Nuclear proteins bind conserved elements in the abscisic acid-responsive promoter of a rice rab gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990 , 87, 1406-10	11.5	336
254	Two different novel cis-acting elements of erd1, a clpA homologous <i>Arabidopsis</i> gene function in induction by dehydration stress and dark-induced senescence. <i>Plant Journal</i> , 2003 , 33, 259-70	6.9	334
253	Stress-induced expression in wheat of the <i>Arabidopsis thaliana</i> DREB1A gene delays water stress symptoms under greenhouse conditions. <i>Genome</i> , 2004 , 47, 493-500	2.4	327
252	The abiotic stress-responsive NAC-type transcription factor OsNAC5 regulates stress-inducible genes and stress tolerance in rice. <i>Molecular Genetics and Genomics</i> , 2010 , 284, 173-83	3.1	320

251	Four Arabidopsis AREB/ABF transcription factors function predominantly in gene expression downstream of SnRK2 kinases in abscisic acid signalling in response to osmotic stress. <i>Plant, Cell and Environment</i> , 2015 , 38, 35-49	8.4	307
250	A nuclear gene encoding mitochondrial proline dehydrogenase, an enzyme involved in proline metabolism, is upregulated by proline but downregulated by dehydration in Arabidopsis. <i>Plant Cell</i> , 1996 , 8, 1323-35	11.6	299
249	Pivotal role of the AREB/ABF-SnRK2 pathway in ABRE-mediated transcription in response to osmotic stress in plants. <i>Physiologia Plantarum</i> , 2013 , 147, 15-27	4.6	293
248	Organization and expression of two Arabidopsis DREB2 genes encoding DRE-binding proteins involved in dehydration- and high-salinity-responsive gene expression. <i>Plant Molecular Biology</i> , 2000 , 42, 657-65	4.6	291
247	Biological functions of proline in morphogenesis and osmotolerance revealed in antisense transgenic Arabidopsis thaliana. <i>Plant Journal</i> , 1999 , 18, 185-93	6.9	290
246	Effects of free proline accumulation in petunias under drought stress. <i>Journal of Experimental Botany</i> , 2005 , 56, 1975-81	7	289
245	Genome-wide survey and expression analysis of the plant-specific NAC transcription factor family in soybean during development and dehydration stress. <i>DNA Research</i> , 2011 , 18, 263-76	4.5	278
244	The mitogen-activated protein kinase cascade MKK3-MPK6 is an important part of the jasmonate signal transduction pathway in Arabidopsis. <i>Plant Cell</i> , 2007 , 19, 805-18	11.6	277
243	Sensing the environment: key roles of membrane-localized kinases in plant perception and response to abiotic stress. <i>Journal of Experimental Botany</i> , 2013 , 64, 445-58	7	274
242	A stress-inducible gene for 9-cis-epoxycarotenoid dioxygenase involved in abscisic acid biosynthesis under water stress in drought-tolerant cowpea. <i>Plant Physiology</i> , 2000 , 123, 553-62	6.6	273
241	SRK2C, a SNF1-related protein kinase 2, improves drought tolerance by controlling stress-responsive gene expression in Arabidopsis thaliana. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 17306-11	11.5	272
240	Cloning and functional analysis of a novel DREB1/CBF transcription factor involved in cold-responsive gene expression in Zea mays L. <i>Plant and Cell Physiology</i> , 2004 , 45, 1042-52	4.9	272
239	An Arabidopsis gene family encoding DRE/CRT binding proteins involved in low-temperature-responsive gene expression. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 250, 161-70	3.4	267
238	Comprehensive analysis of rice DREB2-type genes that encode transcription factors involved in the expression of abiotic stress-responsive genes. <i>Molecular Genetics and Genomics</i> , 2010 , 283, 185-96	3.1	262
237	Metabolic pathways involved in cold acclimation identified by integrated analysis of metabolites and transcripts regulated by DREB1A and DREB2A. <i>Plant Physiology</i> , 2009 , 150, 1972-80	6.6	261
236	Arabidopsis HsfA1 transcription factors function as the main positive regulators in heat shock-responsive gene expression. <i>Molecular Genetics and Genomics</i> , 2011 , 286, 321-32	3.1	253
235	Recent advances in the dissection of drought-stress regulatory networks and strategies for development of drought-tolerant transgenic rice plants. <i>Frontiers in Plant Science</i> , 2015 , 6, 84	6.2	250
234	RPK2 is an essential receptor-like kinase that transmits the CLV3 signal in Arabidopsis. <i>Development (Cambridge)</i> , 2010 , 137, 3911-20	6.6	249

233	Transcriptional regulation of ABI3- and ABA-responsive genes including RD29B and RD29A in seeds, germinating embryos, and seedlings of Arabidopsis. <i>Plant Molecular Biology</i> , 2006 , 60, 51-68	4.6	249
232	Structure and expression of two genes that encode distinct drought-inducible cysteine proteinases in Arabidopsis thaliana. <i>Gene</i> , 1993 , 129, 175-82	3.8	244
231	The plant hormone abscisic acid mediates the drought-induced expression but not the seed-specific expression of rd22, a gene responsive to dehydration stress in Arabidopsis thaliana. <i>Molecular Genetics and Genomics</i> , 1993 , 238, 17-25		240
230	Leucine-rich repeat receptor-like kinase1 is a key membrane-bound regulator of abscisic acid early signaling in Arabidopsis. <i>Plant Cell</i> , 2005 , 17, 1105-19	11.6	239
229	Osmotic stress responses and plant growth controlled by potassium transporters in Arabidopsis. <i>Plant Cell</i> , 2013 , 25, 609-24	11.6	237
228	Benefits of brassinosteroid crosstalk. <i>Trends in Plant Science</i> , 2012 , 17, 594-605	13.1	232
227	Regulons involved in osmotic stress-responsive and cold stress-responsive gene expression in plants. <i>Physiologia Plantarum</i> , 2006 , 126, 62-71	4.6	230
226	Monitoring expression profiles of Arabidopsis gene expression during rehydration process after dehydration using ca 7000 full-length cDNA microarray. <i>Plant Journal</i> , 2003 , 34, 868-87	6.9	223
225	ABA control of plant macroelement membrane transport systems in response to water deficit and high salinity. <i>New Phytologist</i> , 2014 , 202, 35-49	9.8	217
224	Two genes that encode Ca(2+)-dependent protein kinases are induced by drought and high-salt stresses in Arabidopsis thaliana. <i>Molecular Genetics and Genomics</i> , 1994 , 244, 331-40		215
223	A small peptide modulates stomatal control via abscisic acid in long-distance signalling. <i>Nature</i> , 2018 , 556, 235-238	50.4	214
222	Characterization of two cDNAs that encode MAP kinase homologues in Arabidopsis thaliana and analysis of the possible role of auxin in activating such kinase activities in cultured cells. <i>Plant Journal</i> , 1994 , 5, 111-22	6.9	209
221	Stress-inducible expression of At DREB1A in transgenic peanut (<i>Arachis hypogaea</i> L.) increases transpiration efficiency under water-limiting conditions. <i>Plant Cell Reports</i> , 2007 , 26, 2071-82	5.1	208
220	Co-expression of the stress-inducible zinc finger homeodomain ZFHD1 and NAC transcription factors enhances expression of the ERD1 gene in Arabidopsis. <i>Plant Journal</i> , 2007 , 49, 46-63	6.9	204
219	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. <i>Plant and Cell Physiology</i> , 2011 , 52, 2136-46	4.9	185
218	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
217	OstZF1, a CCCH-tandem zinc finger protein, confers delayed senescence and stress tolerance in rice by regulating stress-related genes. <i>Plant Physiology</i> , 2013 , 161, 1202-16	6.6	183
216	Characterization of the gene for delta1-pyrroline-5-carboxylate synthetase and correlation between the expression of the gene and salt tolerance in <i>Oryza sativa</i> L. <i>Plant Molecular Biology</i> , 1997 , 33, 857-65	4.6	183

215	Cloning of cDNAs for genes that are early-responsive to dehydration stress (ERDs) in <i>Arabidopsis thaliana</i> L.: identification of three ERDs as HSP cognate genes. <i>Plant Molecular Biology</i> , 1994 , 25, 791-8	4.6	178
214	Genome-wide analysis of ZmDREB genes and their association with natural variation in drought tolerance at seedling stage of <i>Zea mays</i> L. <i>PLoS Genetics</i> , 2013 , 9, e1003790	6	173
213	<i>Arabidopsis</i> stress-inducible gene for arginine decarboxylase AtADC2 is required for accumulation of putrescine in salt tolerance. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 313, 369-75	3.4	173
212	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
211	A nuclear gene, <i>erd1</i> , encoding a chloroplast-targeted Clp protease regulatory subunit homolog is not only induced by water stress but also developmentally up-regulated during senescence in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 1997 , 12, 851-61	6.9	170
210	Two-component systems in plant signal transduction. <i>Trends in Plant Science</i> , 2000 , 5, 67-74	13.1	164
209	Functional analysis of an <i>Arabidopsis</i> heat-shock transcription factor HsfA3 in the transcriptional cascade downstream of the DREB2A stress-regulatory system. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 368, 515-21	3.4	161
208	Characterization of <i>Arabidopsis</i> genes involved in biosynthesis of polyamines in abiotic stress responses and developmental stages. <i>Plant, Cell and Environment</i> , 2003 , 26, 1917-1926	8.4	161
207	Soybean DREB1/CBF-type transcription factors function in heat and drought as well as cold stress-responsive gene expression. <i>Plant Journal</i> , 2015 , 81, 505-18	6.9	157
206	Potential utilization of NAC transcription factors to enhance abiotic stress tolerance in plants by biotechnological approach. <i>GM Crops</i> , 2010 , 1, 32-9		156
205	The phytochrome-interacting factor PIF7 negatively regulates DREB1 expression under circadian control in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2009 , 151, 2046-57	6.6	154
204	Hyperosmotic stress induces a rapid and transient increase in inositol 1,4,5-trisphosphate independent of abscisic acid in <i>Arabidopsis</i> cell culture. <i>Plant and Cell Physiology</i> , 2001 , 42, 214-22	4.9	152
203	A gene encoding phosphatidylinositol-4-phosphate 5-kinase is induced by water stress and abscisic acid in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 1998 , 15, 563-8	6.9	149
202	Toward understanding transcriptional regulatory networks in abiotic stress responses and tolerance in rice. <i>Rice</i> , 2012 , 5, 6	5.8	148
201	Receptor-like protein kinase 2 (RPK 2) is a novel factor controlling anther development in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2007 , 50, 751-66	6.9	147
200	<i>Arabidopsis</i> DNA encoding two desiccation-responsive <i>rd29</i> genes. <i>Plant Physiology</i> , 1993 , 101, 1119-20	6.6	142
199	<i>Arabidopsis</i> AHP2, AHP3, and AHP5 histidine phosphotransfer proteins function as redundant negative regulators of drought stress response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 4840-5	11.5	137
198	Six chloroplast genes (<i>ndhA-F</i>) homologous to human mitochondrial genes encoding components of the respiratory chain NADH dehydrogenase are actively expressed: determination of the splice sites in <i>ndhA</i> and <i>ndhB</i> pre-mRNAs. <i>Molecular Genetics and Genomics</i> , 1987 , 210, 385-93		137

197	Possible His to Asp phosphorelay signaling in an Arabidopsis two-component system. <i>FEBS Letters</i> , 2000 , 478, 227-32	3.8	135
196	Differential gene expression in soybean leaf tissues at late developmental stages under drought stress revealed by genome-wide transcriptome analysis. <i>PLoS ONE</i> , 2012 , 7, e49522	3.7	133
195	ACTCAT, a novel cis-acting element for proline- and hypoosmolarity-responsive expression of the ProDH gene encoding proline dehydrogenase in Arabidopsis. <i>Plant Physiology</i> , 2002 , 130, 709-19	6.6	133
194	A novel subgroup of bZIP proteins functions as transcriptional activators in hypoosmolarity-responsive expression of the ProDH gene in Arabidopsis. <i>Plant and Cell Physiology</i> , 2004 , 45, 309-17	4.9	131
193	Abiotic stress-inducible receptor-like kinases negatively control ABA signaling in Arabidopsis. <i>Plant Journal</i> , 2012 , 70, 599-613	6.9	130
192	Structure and function of abscisic acid receptors. <i>Trends in Plant Science</i> , 2013 , 18, 259-66	13.1	126
191	Arabidopsis growth-regulating factor7 functions as a transcriptional repressor of abscisic acid- and osmotic stress-responsive genes, including DREB2A. <i>Plant Cell</i> , 2012 , 24, 3393-405	11.6	124
190	SNAC-As, stress-responsive NAC transcription factors, mediate ABA-inducible leaf senescence. <i>Plant Journal</i> , 2015 , 84, 1114-23	6.9	122
189	Four tightly linked rab genes are differentially expressed in rice. <i>Plant Molecular Biology</i> , 1990 , 14, 29-39	4.6	122
188	Functional analysis of an Arabidopsis thaliana abiotic stress-inducible facilitated diffusion transporter for monosaccharides. <i>Journal of Biological Chemistry</i> , 2010 , 285, 1138-46	5.4	120
187	Efficient production of male and female sterile plants by expression of a chimeric repressor in Arabidopsis and rice. <i>Plant Biotechnology Journal</i> , 2006 , 4, 325-32	11.6	120
186	Monitoring expression profiles of Arabidopsis genes during cold acclimation and deacclimation using DNA microarrays. <i>Functional and Integrative Genomics</i> , 2006 , 6, 212-34	3.8	118
185	Arabidopsis Cys2/His2 zinc-finger proteins AZF1 and AZF2 negatively regulate abscisic acid-repressive and auxin-inducible genes under abiotic stress conditions. <i>Plant Physiology</i> , 2011 , 157, 742-56	6.6	116
184	ATMPKs: a gene family of plant MAP kinases in Arabidopsis thaliana. <i>FEBS Letters</i> , 1993 , 336, 440-4	3.8	116
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