

James Whelan

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298
papers

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73
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L-index

#	Paper	IF	Citations
298	Experimental analysis of the Arabidopsis mitochondrial proteome highlights signaling and regulatory components, provides assessment of targeting prediction programs, and indicates plant-specific mitochondrial proteins. <i>Plant Cell</i> , 2004 , 16, 241-56	11.6	461
297	Organization and regulation of mitochondrial respiration in plants. <i>Annual Review of Plant Biology</i> , 2011 , 62, 79-104	30.7	434
296	Evidence for a SAL1-PAP chloroplast retrograde pathway that functions in drought and high light signaling in Arabidopsis. <i>Plant Cell</i> , 2011 , 23, 3992-4012	11.6	372
295	Molecular definition of the ascorbate-glutathione cycle in Arabidopsis mitochondria reveals dual targeting of antioxidant defenses in plants. <i>Journal of Biological Chemistry</i> , 2003 , 278, 46869-77	5.4	356
294	The absence of ALTERNATIVE OXIDASE1a in Arabidopsis results in acute sensitivity to combined light and drought stress. <i>Plant Physiology</i> , 2008 , 147, 595-610	6.6	292
293	Stress-induced co-expression of alternative respiratory chain components in Arabidopsis thaliana. <i>Plant Molecular Biology</i> , 2005 , 58, 193-212	4.6	253
292	Alternative oxidases in Arabidopsis: a comparative analysis of differential expression in the gene family provides new insights into function of non-phosphorylating bypasses. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006 , 1757, 730-41	4.6	249
291	Genome-wide analysis of mRNA decay rates and their determinants in Arabidopsis thaliana. <i>Plant Cell</i> , 2007 , 19, 3418-36	11.6	239
290	Organic acid activation of the alternative oxidase of plant mitochondria. <i>FEBS Letters</i> , 1993 , 329, 259-62	3.8	216
289	The membrane-bound NAC transcription factor ANAC013 functions in mitochondrial retrograde regulation of the oxidative stress response in Arabidopsis. <i>Plant Cell</i> , 2013 , 25, 3472-90	11.6	214
288	Stress induced gene expression drives transient DNA methylation changes at adjacent repetitive elements. <i>ELife</i> , 2015 , 4,	8.9	208
287	A membrane-bound NAC transcription factor, ANAC017, mediates mitochondrial retrograde signaling in Arabidopsis. <i>Plant Cell</i> , 2013 , 25, 3450-71	11.6	207
286	Spatio-temporal transcript profiling of rice roots and shoots in response to phosphate starvation and recovery. <i>Plant Cell</i> , 2013 , 25, 4285-304	11.6	201
285	Differential response of gray poplar leaves and roots underpins stress adaptation during hypoxia. <i>Plant Physiology</i> , 2009 , 149, 461-73	6.6	196
284	The transcription factor ABI4 is a regulator of mitochondrial retrograde expression of ALTERNATIVE OXIDASE1a. <i>Plant Physiology</i> , 2009 , 150, 1286-96	6.6	194
283	Alternative oxidase: a target and regulator of stress responses. <i>Physiologia Plantarum</i> , 2009 , 137, 354-61	4.6	192
282	The emerging importance of the SPX domain-containing proteins in phosphate homeostasis. <i>New Phytologist</i> , 2012 , 193, 842-51	9.8	190

281	Physiological and transcriptome analysis of iron and phosphorus interaction in rice seedlings. <i>Plant Physiology</i> , 2009 , 151, 262-74	6.6	189
280	Repeated, recent and diverse transfers of a mitochondrial gene to the nucleus in flowering plants. <i>Nature</i> , 2000 , 408, 354-7	50.4	189
279	The Arabidopsis glutathione transferase gene family displays complex stress regulation and co-silencing multiple genes results in altered metabolic sensitivity to oxidative stress. <i>Plant Journal</i> , 2009 , 58, 53-68	6.9	181
278	Towards an analysis of the rice mitochondrial proteome. <i>Plant Physiology</i> , 2003 , 132, 230-42	6.6	179
277	Mapping metabolic and transcript temporal switches during germination in rice highlights specific transcription factors and the role of RNA instability in the germination process. <i>Plant Physiology</i> , 2009 , 149, 961-80	6.6	171
276	Progress in transcriptionally targeted and regulatable vectors for genetic therapy. <i>Human Gene Therapy</i> , 1997 , 8, 803-15	4.8	171
275	Molecular distinction between alternative oxidase from monocots and dicots. <i>Plant Physiology</i> , 2002 , 129, 949-53	6.6	170
274	Defining the mitochondrial stress response in Arabidopsis thaliana. <i>Molecular Plant</i> , 2009 , 2, 1310-24	14.4	143
273	In-depth temporal transcriptome profiling reveals a crucial developmental switch with roles for RNA processing and organelle metabolism that are essential for germination in Arabidopsis. <i>Plant Physiology</i> , 2011 , 157, 1342-62	6.6	133
272	Comparative analysis between plant species of transcriptional and metabolic responses to hypoxia. <i>New Phytologist</i> , 2011 , 190, 472-87	9.8	132
271	The expression of alternative oxidase and uncoupling protein during fruit ripening in mango. <i>Plant Physiology</i> , 2001 , 126, 1619-29	6.6	132
270	TCP transcription factors link the regulation of genes encoding mitochondrial proteins with the circadian clock in Arabidopsis thaliana. <i>Plant Cell</i> , 2010 , 22, 3921-34	11.6	131
269	A transcriptomic and proteomic characterization of the Arabidopsis mitochondrial protein import apparatus and its response to mitochondrial dysfunction. <i>Plant Physiology</i> , 2004 , 134, 777-89	6.6	130
268	Differential expression of the multigene family encoding the soybean mitochondrial alternative oxidase. <i>Plant Physiology</i> , 1997 , 114, 455-66	6.6	127
267	Approaches to defining dual-targeted proteins in Arabidopsis. <i>Plant Journal</i> , 2009 , 57, 1128-39	6.9	121
266	Ordered assembly of mitochondria during rice germination begins with pro-mitochondrial structures rich in components of the protein import apparatus. <i>Plant Molecular Biology</i> , 2006 , 60, 201-234.6	4.6	121
265	Protein transport in organelles: Dual targeting of proteins to mitochondria and chloroplasts. <i>FEBS Journal</i> , 2009 , 276, 1187-95	5.7	120
264	Mitochondrial protein import in plants. Signals, sorting, targeting, processing and regulation. <i>Plant Molecular Biology</i> , 1998 , 38, 311-38	4.6	119

263	Defining core metabolic and transcriptomic responses to oxygen availability in rice embryos and young seedlings. <i>Plant Physiology</i> , 2009 , 151, 306-22	6.6	118
262	Functional definition of outer membrane proteins involved in preprotein import into mitochondria. <i>Plant Cell</i> , 2007 , 19, 3739-59	11.6	117
261	Anterograde and retrograde regulation of nuclear genes encoding mitochondrial proteins during growth, development, and stress. <i>Molecular Plant</i> , 2014 , 7, 1075-93	14.4	116
260	Phage-type RNA polymerase RPO _{Tmp} performs gene-specific transcription in mitochondria of <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2009 , 21, 2762-79	11.6	116
259	A plant outer mitochondrial membrane protein with high amino acid sequence identity to a chloroplast protein import receptor. <i>FEBS Letters</i> , 2004 , 557, 109-14	3.8	114
258	Identification of regulatory pathways controlling gene expression of stress-responsive mitochondrial proteins in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2008 , 147, 1858-73	6.6	113
257	Functional characterization of the rice SPX-MFS family reveals a key role of OsSPX-MFS1 in controlling phosphate homeostasis in leaves. <i>New Phytologist</i> , 2012 , 196, 139-148	9.8	112
256	Defining reference genes in <i>Oryza sativa</i> using organ, development, biotic and abiotic transcriptome datasets. <i>BMC Plant Biology</i> , 2010 , 10, 56	5.3	112
255	Characterization of mitochondrial alternative NAD(P)H dehydrogenases in <i>Arabidopsis</i> : intraorganelle location and expression. <i>Plant and Cell Physiology</i> , 2006 , 47, 43-54	4.9	112
254	AtWRKY40 and AtWRKY63 modulate the expression of stress-responsive nuclear genes encoding mitochondrial and chloroplast proteins. <i>Plant Physiology</i> , 2013 , 162, 254-71	6.6	111
253	Superoxide stimulates a proton leak in potato mitochondria that is related to the activity of uncoupling protein. <i>Journal of Biological Chemistry</i> , 2003 , 278, 22298-302	5.4	110
252	Experimental analysis of the rice mitochondrial proteome, its biogenesis, and heterogeneity. <i>Plant Physiology</i> , 2009 , 149, 719-34	6.6	107
251	Phosphate homeostasis in the yeast <i>Saccharomyces cerevisiae</i> , the key role of the SPX domain-containing proteins. <i>FEBS Letters</i> , 2012 , 586, 289-95	3.8	106
250	Identification of a novel iron regulated basic helix-loop-helix protein involved in Fe homeostasis in <i>Oryza sativa</i> . <i>BMC Plant Biology</i> , 2010 , 10, 166	5.3	105
249	Refining the definition of plant mitochondrial presequences through analysis of sorting signals, N-terminal modifications, and cleavage motifs. <i>Plant Physiology</i> , 2009 , 150, 1272-85	6.6	101
248	Genes for two mitochondrial ribosomal proteins in flowering plants are derived from their chloroplast or cytosolic counterparts. <i>Plant Cell</i> , 2002 , 14, 931-43	11.6	101
247	Tom22 is an 8-kDa trans-site receptor in plants and protozoans, is a conserved feature of the TOM complex that appeared early in the evolution of eukaryotes. <i>Molecular Biology and Evolution</i> , 2004 , 21, 1557-64	8.3	97
246	Cyclin-dependent kinase E1 (CDKE1) provides a cellular switch in plants between growth and stress responses. <i>Journal of Biological Chemistry</i> , 2013 , 288, 3449-59	5.4	95

245	The RCC1 family protein RUG3 is required for splicing of nad2 and complex I biogenesis in mitochondria of Arabidopsis thaliana. <i>Plant Journal</i> , 2011 , 67, 1067-80	6.9	95
244	Analysis of the alternative oxidase promoters from soybean. <i>Plant Physiology</i> , 2003 , 133, 1158-69	6.6	95
243	Conserved and novel functions for Arabidopsis thaliana MIA40 in assembly of proteins in mitochondria and peroxisomes. <i>Journal of Biological Chemistry</i> , 2010 , 285, 36138-48	5.4	88
242	Extensive transcriptomic and epigenomic remodelling occurs during Arabidopsis thaliana germination. <i>Genome Biology</i> , 2017 , 18, 172	18.3	87
241	Chlorophyll biosynthesis. Expression of a second chl I gene of magnesium chelatase in Arabidopsis supports only limited chlorophyll synthesis. <i>Plant Physiology</i> , 2002 , 128, 770-9	6.6	87
240	Exploring the function-location nexus: using multiple lines of evidence in defining the subcellular location of plant proteins. <i>Plant Cell</i> , 2009 , 21, 1625-31	11.6	86
239	Community recommendations on terminology and procedures used in flooding and low oxygen stress research. <i>New Phytologist</i> , 2017 , 214, 1403-1407	9.8	84
238	Characterization of the preprotein and amino acid transporter gene family in Arabidopsis. <i>Plant Physiology</i> , 2007 , 143, 199-212	6.6	83
237	Nine 3-ketoacyl-CoA thiolases (KATs) and acetoacetyl-CoA thiolases (ACATs) encoded by five genes in Arabidopsis thaliana are targeted either to peroxisomes or cytosol but not to mitochondria. <i>Plant Molecular Biology</i> , 2007 , 63, 97-108	4.6	83
236	A novel in vitro system for simultaneous import of precursor proteins into mitochondria and chloroplasts. <i>Plant Journal</i> , 2002 , 30, 213-20	6.9	83
235	Pentatricopeptide repeat domain protein 3 associates with the mitochondrial small ribosomal subunit and regulates translation. <i>FEBS Letters</i> , 2009 , 583, 1853-8	3.8	81
234	Type II NAD(P)H dehydrogenases are targeted to mitochondria and chloroplasts or peroxisomes in Arabidopsis thaliana. <i>FEBS Letters</i> , 2008 , 582, 3073-9	3.8	81
233	Antagonistic, overlapping and distinct responses to biotic stress in rice (<i>Oryza sativa</i>) and interactions with abiotic stress. <i>BMC Genomics</i> , 2013 , 14, 93	4.5	80
232	Nucleotide and RNA metabolism prime translational initiation in the earliest events of mitochondrial biogenesis during Arabidopsis germination. <i>Plant Physiology</i> , 2012 , 158, 1610-27	6.6	79
231	Regulation of alternative oxidase gene expression in soybean. <i>Plant Molecular Biology</i> , 2002 , 50, 735-42	4.6	79
230	Rice SPX-Major Facilitator Superfamily3, a Vacuolar Phosphate Efflux Transporter, Is Involved in Maintaining Phosphate Homeostasis in Rice. <i>Plant Physiology</i> , 2015 , 169, 2822-31	6.6	78
229	Alternative Oxidase Is Positive for Plant Performance. <i>Trends in Plant Science</i> , 2018 , 23, 588-597	13.1	77
228	Regulation of the Alternative Oxidase in Plants and Fungi.. <i>Functional Plant Biology</i> , 1995 , 22, 497	2.7	77

227	Multiple lines of evidence localize signaling, morphology, and lipid biosynthesis machinery to the mitochondrial outer membrane of Arabidopsis. <i>Plant Physiology</i> , 2011 , 157, 1093-113	6.6	76
226	Mitochondrial and nuclear localization of a novel pea thioredoxin: identification of its mitochondrial target proteins. <i>Plant Physiology</i> , 2009 , 150, 646-57	6.6	73
225	Ethylene is involved in the regulation of iron homeostasis by regulating the expression of iron-acquisition-related genes in <i>Oryza sativa</i> . <i>Journal of Experimental Botany</i> , 2011 , 62, 667-74	7	71
224	How do plant mitochondria avoid importing chloroplast proteins? Components of the import apparatus Tom20 and Tom22 from Arabidopsis differ from their fungal counterparts. <i>Plant Physiology</i> , 2000 , 123, 811-6	6.6	71
223	The alternative oxidase is encoded in a multigene family in soybean. <i>Planta</i> , 1996 , 198, 197-201	4.7	70
222	TGD1, -2, and -3 proteins involved in lipid trafficking form ATP-binding cassette (ABC) transporter with multiple substrate-binding proteins. <i>Journal of Biological Chemistry</i> , 2012 , 287, 21406-15	5.4	69
221	Protein import into mitochondria: origins and functions today (review). <i>Molecular Membrane Biology</i> , 2005 , 22, 87-100	3.4	69
220	A Functional Antagonistic Relationship between Auxin and Mitochondrial Retrograde Signaling Regulates Alternative Oxidase1a Expression in Arabidopsis. <i>Plant Physiology</i> , 2014 , 165, 1233-1254	6.6	68
219	Comparison of transcriptional changes to chloroplast and mitochondrial perturbations reveals common and specific responses in Arabidopsis. <i>Frontiers in Plant Science</i> , 2012 , 3, 281	6.2	68
218	Characterization of the targeting signal of dual-targeted pea glutathione reductase. <i>Plant Molecular Biology</i> , 2003 , 53, 341-56	4.6	67
217	Bioenergetic differences selectively sensitize tumorigenic liver progenitor cells to a new gold(I) compound. <i>Carcinogenesis</i> , 2008 , 29, 1124-33	4.6	65
216	Overexpression of OsPAP10a, a root-associated acid phosphatase, increased extracellular organic phosphorus utilization in rice. <i>Journal of Integrative Plant Biology</i> , 2012 , 54, 631-9	8.3	64
215	Dual location of the mitochondrial preprotein transporters B14.7 and Tim23-2 in complex I and the TIM17:23 complex in Arabidopsis links mitochondrial activity and biogenesis. <i>Plant Cell</i> , 2012 , 24, 2675-95	11.6	64
214	Identification, expression, and import of components 17 and 23 of the inner mitochondrial membrane translocase from Arabidopsis. <i>Plant Physiology</i> , 2003 , 131, 1737-47	6.6	64
213	Differential expression of alternative oxidase genes in soybean cotyledons during postgerminative development. <i>Plant Physiology</i> , 1998 , 118, 675-82	6.6	63
212	Tissue-specific expression of the alternative oxidase in soybean and siratro. <i>Plant Physiology</i> , 1992 , 99, 712-7	6.6	63
211	Sorting of precursor proteins between isolated spinach leaf mitochondria and chloroplasts. <i>Plant Molecular Biology</i> , 1990 , 14, 977-82	4.6	63
210	Pentatricopeptide repeat domain protein 1 lowers the levels of mitochondrial leucine tRNAs in cells. <i>Nucleic Acids Research</i> , 2009 , 37, 5859-67	20.1	62

209	Differential gene expression and subcellular targeting of Arabidopsis glutathione S-transferase F8 is achieved through alternative transcription start sites. <i>Journal of Biological Chemistry</i> , 2007 , 282, 28915-28928	5.4	62
208	Acquisition, conservation, and loss of dual-targeted proteins in land plants. <i>Plant Physiology</i> , 2013 , 161, 644-62	6.6	60
207	Arabidopsis thaliana ferrochelatase-I and -II are not imported into Arabidopsis mitochondria. <i>FEBS Letters</i> , 2001 , 506, 291-5	3.8	60
206	Protein phosphorylation stimulates the rate of malate uptake across the peribacteroid membrane of soybean nodules. <i>FEBS Letters</i> , 1991 , 293, 188-90	3.8	60
205	Interaction between hormonal and mitochondrial signalling during growth, development and in plant defence responses. <i>Plant, Cell and Environment</i> , 2016 , 39, 1127-39	8.4	60
204	Prohibitins: mitochondrial partners in development and stress response. <i>Trends in Plant Science</i> , 2010 , 15, 275-82	13.1	59
203	What happens to plant mitochondria under low oxygen? An omics review of the responses to low oxygen and reoxygenation. <i>Plant, Cell and Environment</i> , 2014 , 37, 2260-77	8.4	58
202	Interaction between plastid and mitochondrial retrograde signalling pathways during changes to plastid redox status. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20130231	5.8	58
201	Dissecting the Metabolic Role of Mitochondria during Developmental Leaf Senescence. <i>Plant Physiology</i> , 2016 , 172, 2132-2153	6.6	57
200	Oxygen initiation of respiration and mitochondrial biogenesis in rice. <i>Journal of Biological Chemistry</i> , 2007 , 282, 15619-31	5.4	57
199	The mitochondrial outer membrane AAA ATPase AtOM66 affects cell death and pathogen resistance in Arabidopsis thaliana. <i>Plant Journal</i> , 2014 , 80, 709-27	6.9	56
198	Intracellular gene transfer: reduced hydrophobicity facilitates gene transfer for subunit 2 of cytochrome c oxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 10510-5	11.5	56
197	Protein import into plant mitochondria: signals, machinery, processing, and regulation. <i>Journal of Experimental Botany</i> , 2014 , 65, 6301-35	7	55
196	Decreasing electron flux through the cytochrome and/or alternative respiratory pathways triggers common and distinct cellular responses dependent on growth conditions. <i>Plant Physiology</i> , 2015 , 167, 228-50	6.6	54
195	Signals required for the import and processing of the alternative oxidase into mitochondria. <i>Journal of Biological Chemistry</i> , 1999 , 274, 1286-93	5.4	54
194	Alternative Splicing Plays a Critical Role in Maintaining Mineral Nutrient Homeostasis in Rice (). <i>Plant Cell</i> , 2018 , 30, 2267-2285	11.6	54
193	Arabidopsis ammonium transporters, AtAMT1;1 and AtAMT1;2, have different biochemical properties and functional roles. <i>Plant and Soil</i> , 2001 , 231, 151-160	4.2	53
192	Mitochondrial and Chloroplast Stress Responses Are Modulated in Distinct Touch and Chemical Inhibition Phases. <i>Plant Physiology</i> , 2016 , 171, 2150-65	6.6	53

191	Determining degradation and synthesis rates of arabidopsis proteins using the kinetics of progressive 15N labeling of two-dimensional gel-separated protein spots. <i>Molecular and Cellular Proteomics</i> , 2012 , 11, M111.010025	7.6	52
190	Alternative Oxidase Isoforms Are Differentially Activated by Tricarboxylic Acid Cycle Intermediates. <i>Plant Physiology</i> , 2018 , 176, 1423-1432	6.6	52
189	A dual-targeted purple acid phosphatase in Arabidopsis thaliana moderates carbon metabolism and its overexpression leads to faster plant growth and higher seed yield. <i>New Phytologist</i> , 2012 , 194, 206-219	8.8	51
188	Identification of AtNDI1, an internal non-phosphorylating NAD(P)H dehydrogenase in Arabidopsis mitochondria. <i>Plant Physiology</i> , 2003 , 133, 1968-78	6.6	51
187	LETM proteins play a role in the accumulation of mitochondrially encoded proteins in Arabidopsis thaliana and AtLETM2 displays parent of origin effects. <i>Journal of Biological Chemistry</i> , 2012 , 287, 41757-73	7.3	49
186	Gene transfer from mitochondrion to nucleus: novel mechanisms for gene activation from Cox2. <i>Plant Journal</i> , 2002 , 30, 11-21	6.9	49
185	Studies on the import and processing of the alternative oxidase precursor by isolated soybean mitochondria. <i>Plant Molecular Biology</i> , 1995 , 27, 769-78	4.6	49
184	Cloning of an additional cDNA for the alternative oxidase in tobacco. <i>Plant Physiology</i> , 1995 , 107, 1469-70	6.6	49
183	Identification of OsbHLH133 as a regulator of iron distribution between roots and shoots in Oryza sativa. <i>Plant, Cell and Environment</i> , 2013 , 36, 224-36	8.4	47
182	Sulphur dioxide evokes a large scale reprogramming of the grape berry transcriptome associated with oxidative signalling and biotic defence responses. <i>Plant, Cell and Environment</i> , 2012 , 35, 405-17	8.4	47
181	An in silico analysis of the mitochondrial protein import apparatus of plants. <i>BMC Plant Biology</i> , 2010 , 10, 249	5.3	47
180	Characterization of the regulatory and expression context of an alternative oxidase gene provides insights into cyanide-insensitive respiration during growth and development. <i>Plant Physiology</i> , 2007 , 143, 1519-33	6.6	47
179	Sequencing of a soybean alternative oxidase cDNA clone. <i>Plant Physiology</i> , 1993 , 103, 1481	6.6	47
178	Why genes persist in organelle genomes. <i>Genome Biology</i> , 2005 , 6, 110	18.3	46
177	OsNLA1, a RING-type ubiquitin ligase, maintains phosphate homeostasis in Oryza sativa via degradation of phosphate transporters. <i>Plant Journal</i> , 2017 , 90, 1040-1051	6.9	45
176	The Soybean Sugar Transporter GmSWEET15 Mediates Sucrose Export from Endosperm to Early Embryo. <i>Plant Physiology</i> , 2019 , 180, 2133-2141	6.6	45
175	Unique components of the plant mitochondrial protein import apparatus. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013 , 1833, 304-13	4.9	45
174	N-terminal domain of the dual-targeted pea glutathione reductase signal peptide controls organellar targeting efficiency. <i>Journal of Molecular Biology</i> , 2002 , 324, 577-85	6.5	44

173	Glutaredoxin S15 Is Involved in Fe-S Cluster Transfer in Mitochondria Influencing Lipoic Acid-Dependent Enzymes, Plant Growth, and Arsenic Tolerance in Arabidopsis. <i>Plant Physiology</i> , 2016 , 170, 1284-99	6.6	43
172	Dynamic and rapid changes in the transcriptome and epigenome during germination and in developing rice (<i>Oryza sativa</i>) coleoptiles under anoxia and re-oxygenation. <i>Plant Journal</i> , 2017 , 89, 805-824	6.9	43
171	MRPS27 is a pentatricopeptide repeat domain protein required for the translation of mitochondrially encoded proteins. <i>FEBS Letters</i> , 2012 , 586, 3555-61	3.8	43
170	RNA-Seq analysis identifies key genes associated with haustorial development in the root hemiparasite <i>Santalum album</i> . <i>Frontiers in Plant Science</i> , 2015 , 6, 661	6.2	42
169	Analysis of the rice mitochondrial carrier family reveals anaerobic accumulation of a basic amino acid carrier involved in arginine metabolism during seed germination. <i>Plant Physiology</i> , 2010 , 154, 691-704	6.6	42
168	The N-terminal cleavable extension of plant carrier proteins is responsible for efficient insertion into the inner mitochondrial membrane. <i>Journal of Molecular Biology</i> , 2005 , 351, 16-25	6.5	41
167	Environmental stresses inhibit and stimulate different protein import pathways in plant mitochondria. <i>FEBS Letters</i> , 2003 , 547, 125-30	3.8	41
166	Processing of the dual targeted precursor protein of glutathione reductase in mitochondria and chloroplasts. <i>Journal of Molecular Biology</i> , 2004 , 343, 639-47	6.5	41
165	RNA-seq analysis identifies an intricate regulatory network controlling cluster root development in white lupin. <i>BMC Genomics</i> , 2014 , 15, 230	4.5	40
164	Organellar oligopeptidase (OOP) provides a complementary pathway for targeting peptide degradation in mitochondria and chloroplasts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E3761-9	11.5	40
163	Identification and characterisation of hypomethylated DNA loci controlling quantitative resistance in. <i>ELife</i> , 2019 , 8,	8.9	40
162	The plant mitochondrial protein import apparatus - the differences make it interesting. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014 , 1840, 1233-45	4	39
161	Subcomplexes of ancestral respiratory complex I subunits rapidly turn over in vivo as productive assembly intermediates in Arabidopsis. <i>Journal of Biological Chemistry</i> , 2013 , 288, 5707-17	5.4	39
160	Protein import into plant mitochondria. <i>Plant Molecular Biology</i> , 1997 , 33, 771-89	4.6	39
159	Unraveling the role of mitochondria during oxidative stress in plants. <i>IUBMB Life</i> , 2001 , 51, 201-5	4.7	39
158	Common and distinct organ and stress responsive transcriptomic patterns in <i>Oryza sativa</i> and <i>Arabidopsis thaliana</i> . <i>BMC Plant Biology</i> , 2010 , 10, 262	5.3	38
157	Induction of alternative oxidase synthesis by herbicides inhibiting branched-chain amino acid synthesis. <i>Plant Journal</i> , 1997 , 11, 649-657	6.9	38
156	Zinc-dependent intermembrane space proteins stimulate import of carrier proteins into plant mitochondria. <i>Plant Journal</i> , 2002 , 30, 555-66	6.9	38

155	The C-terminal region of TIM17 links the outer and inner mitochondrial membranes in Arabidopsis and is essential for protein import. <i>Journal of Biological Chemistry</i> , 2005 , 280, 16476-83	5.4	38
154	Mutagenesis and computer modelling approach to study determinants for recognition of signal peptides by the mitochondrial processing peptidase. <i>Plant Journal</i> , 2001 , 27, 427-38	6.9	37
153	A transcription factor OsbHLH156 regulates Strategy II iron acquisition through localising IRO2 to the nucleus in rice. <i>New Phytologist</i> , 2020 , 225, 1247-1260	9.8	37
152	The Transcription Factor MYB29 Is a Regulator of. <i>Plant Physiology</i> , 2017 , 173, 1824-1843	6.6	36
151	ANAC017 Coordinates Organellar Functions and Stress Responses by Reprogramming Retrograde Signaling. <i>Plant Physiology</i> , 2019 , 180, 634-653	6.6	36
150	Functional and composition differences between mitochondrial complex II in Arabidopsis and rice are correlated with the complex genetic history of the enzyme. <i>Plant Molecular Biology</i> , 2010 , 72, 331-42	4.6	36
149	Mitochondrial Defects Confer Tolerance against Cellulose Deficiency. <i>Plant Cell</i> , 2016 , 28, 2276-2290	11.6	35
148	Mitochondrial biogenesis in plants during seed germination. <i>Mitochondrion</i> , 2014 , 19 Pt B, 214-21	4.9	34
147	The Mitochondrial Protein Import Machinery of Plants (MPIMP) database. <i>Nucleic Acids Research</i> , 2003 , 31, 325-7	20.1	34
146	Mechanisms of growth and patterns of gene expression in oxygen-deprived rice coleoptiles. <i>Plant Journal</i> , 2015 , 82, 25-40	6.9	33
145	Widespread dual targeting of proteins in land plants: when, where, how and why. <i>Plant Signaling and Behavior</i> , 2013 , 8,	2.5	33
144	Nutrient stress-induced chromatin changes in plants. <i>Current Opinion in Plant Biology</i> , 2017 , 39, 1-7	9.9	32
143	Stress responsive mitochondrial proteins in Arabidopsis thaliana. <i>Free Radical Biology and Medicine</i> , 2018 , 122, 28-39	7.8	32
142	Expression and kinetics of the mitochondrial alternative oxidase in nitrogen-fixing nodules of soybean roots. <i>Plant, Cell and Environment</i> , 1997 , 20, 1273-1282	8.4	32
141	Mitochondrial biogenesis and function in Arabidopsis. <i>The Arabidopsis Book</i> , 2008 , 6, e0111	3	32
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