

# A Harvey Millar

## List of Publications by Citations

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303  
papers

25,979  
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85  
h-index

153  
g-index

326  
ext. papers

30,050  
ext. citations

6.9  
avg, IF

7.04  
L-index

#	Paper	IF	Citations
303	Human DNA methylomes at base resolution show widespread epigenomic differences. <i>Nature</i> , <b>2009</b> , 462, 315-22	50.4	3401
302	Highly integrated single-base resolution maps of the epigenome in Arabidopsis. <i>Cell</i> , <b>2008</b> , 133, 523-36	56.2	1896
301	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> , <b>2004</b> , 16, 241-56	11.6	461
300	Organization and regulation of mitochondrial respiration in plants. <i>Annual Review of Plant Biology</i> , <b>2011</b> , 62, 79-104	30.7	434
299	The impact of oxidative stress on Arabidopsis mitochondria. <i>Plant Journal</i> , <b>2002</b> , 32, 891-904	6.9	420
298	Analysis of the Arabidopsis Mitochondrial Proteome. <i>Plant Physiology</i> , <b>2001</b> , 127, 1711-1727	6.6	393
297	SUBA: the Arabidopsis Subcellular Database. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, D213-8	20.1	364
296	Molecular definition of the ascorbate-glutathione cycle in Arabidopsis mitochondria reveals dual targeting of antioxidant defenses in plants. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 46869-77	5.4	356
295	A link between RNA metabolism and silencing affecting Arabidopsis development. <i>Developmental Cell</i> , <b>2008</b> , 14, 854-66	10.2	328
294	Enzymes of glycolysis are functionally associated with the mitochondrion in Arabidopsis cells. <i>Plant Cell</i> , <b>2003</b> , 15, 2140-51	11.6	305
293	Control of ascorbate synthesis by respiration and its implications for stress responses. <i>Plant Physiology</i> , <b>2003</b> , 133, 443-7	6.6	296
292	The absence of ALTERNATIVE OXIDASE1a in Arabidopsis results in acute sensitivity to combined light and drought stress. <i>Plant Physiology</i> , <b>2008</b> , 147, 595-610	6.6	292
291	An improved assembly and annotation of the allohexaploid wheat genome identifies complete families of agronomic genes and provides genomic evidence for chromosomal translocations. <i>Genome Research</i> , <b>2017</b> , 27, 885-896	9.7	262
290	Stress-induced co-expression of alternative respiratory chain components in Arabidopsis thaliana. <i>Plant Molecular Biology</i> , <b>2005</b> , 58, 193-212	4.6	253
289	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> , <b>2006</b> , 1757, 730-41	4.6	249
288	SUBA3: a database for integrating experimentation and prediction to define the SUBcellular location of proteins in Arabidopsis. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, D1185-91	20.1	243
287	Genome-wide analysis of mRNA decay rates and their determinants in Arabidopsis thaliana. <i>Plant Cell</i> , <b>2007</b> , 19, 3418-36	11.6	239

286	A predicted interactome for Arabidopsis. <i>Plant Physiology</i> , <b>2007</b> , 145, 317-29	6.6	233
285	The Roles of Mitochondrial Reactive Oxygen Species in Cellular Signaling and Stress Response in Plants. <i>Plant Physiology</i> , <b>2016</b> , 171, 1551-9	6.6	227
284	Salicylic acid is an uncoupler and inhibitor of mitochondrial electron transport. <i>Plant Physiology</i> , <b>2004</b> , 134, 492-501	6.6	222
283	Remodeled respiration in <i>ndufs4</i> with low phosphorylation efficiency suppresses Arabidopsis germination and growth and alters control of metabolism at night. <i>Plant Physiology</i> , <b>2009</b> , 151, 603-19	6.6	216
282	Organic acid activation of the alternative oxidase of plant mitochondria. <i>FEBS Letters</i> , <b>1993</b> , 329, 259-62	3.8	216
281	The pentatricopeptide repeat gene OTP43 is required for trans-splicing of the mitochondrial nad1 Intron 1 in Arabidopsis thaliana. <i>Plant Cell</i> , <b>2007</b> , 19, 3256-65	11.6	214
280	Differential impact of environmental stresses on the pea mitochondrial proteome. <i>Molecular and Cellular Proteomics</i> , <b>2005</b> , 4, 1122-33	7.6	214
279	Differential response of gray poplar leaves and roots underpins stress adaptation during hypoxia. <i>Plant Physiology</i> , <b>2009</b> , 149, 461-73	6.6	196
278	SUBA4: the interactive data analysis centre for Arabidopsis subcellular protein locations. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, D1064-D1074	20.1	188
277	Nitric oxide inhibits the cytochrome oxidase but not the alternative oxidase of plant mitochondria. <i>FEBS Letters</i> , <b>1996</b> , 398, 155-8	3.8	187
276	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> , <b>2009</b> , 58, 53-68	6.9	181
275	Towards an analysis of the rice mitochondrial proteome. <i>Plant Physiology</i> , <b>2003</b> , 132, 230-42	6.6	179
274	Divalent metal ions in plant mitochondria and their role in interactions with proteins and oxidative stress-induced damage to respiratory function. <i>Plant Physiology</i> , <b>2010</b> , 152, 747-61	6.6	176
273	A novel precursor ion discovery method on a hybrid quadrupole orthogonal acceleration time-of-flight (Q-TOF) mass spectrometer for studying protein phosphorylation. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2002</b> , 13, 792-803	3.5	173
272	Mitochondrial complex II has a key role in mitochondrial-derived reactive oxygen species influence on plant stress gene regulation and defense. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 10768-73	11.5	172
271	Mitochondrial malate dehydrogenase lowers leaf respiration and alters photorespiration and plant growth in Arabidopsis. <i>Plant Physiology</i> , <b>2010</b> , 154, 1143-57	6.6	171
270	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> , <b>2009</b> , 149, 961-80	6.6	171
269	The plant mitochondrial proteome. <i>Trends in Plant Science</i> , <b>2005</b> , 10, 36-43	13.1	171

268	Molecular distinction between alternative oxidase from monocots and dicots. <i>Plant Physiology</i> , <b>2002</b> , 129, 949-53	6.6	170
267	Mitochondrial complex I from Arabidopsis and rice: orthologs of mammalian and fungal components coupled with plant-specific subunits. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2003</b> , 1604, 159-69	4.6	167
266	Genomic and proteomic analysis of mitochondrial carrier proteins in Arabidopsis. <i>Plant Physiology</i> , <b>2003</b> , 131, 443-53	6.6	163
265	Mitochondrial cytochrome c oxidase and succinate dehydrogenase complexes contain plant specific subunits. <i>Plant Molecular Biology</i> , <b>2004</b> , 56, 77-90	4.6	163
264	Novel proteins, putative membrane transporters, and an integrated metabolic network are revealed by quantitative proteomic analysis of Arabidopsis cell culture peroxisomes. <i>Plant Physiology</i> , <b>2008</b> , 148, 1809-29	6.6	156
263	Environmental stress causes oxidative damage to plant mitochondria leading to inhibition of glycine decarboxylase. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 42663-8	5.4	155
262	Analysis of the Arabidopsis cytosolic ribosome proteome provides detailed insights into its components and their post-translational modification. <i>Molecular and Cellular Proteomics</i> , <b>2008</b> , 7, 347-69	7.6	150
261	The role of mitochondrial respiration in salinity tolerance. <i>Trends in Plant Science</i> , <b>2011</b> , 16, 614-23	13.1	148
260	Protein Degradation Rate in Leaf Growth and Development. <i>Plant Cell</i> , <b>2017</b> , 29, 207-228	11.6	147
259	Lipoic acid-dependent oxidative catabolism of alpha-keto acids in mitochondria provides evidence for branched-chain amino acid catabolism in Arabidopsis. <i>Plant Physiology</i> , <b>2004</b> , 134, 838-48	6.6	146
258	The nucleotidase/phosphatase SAL1 is a negative regulator of drought tolerance in Arabidopsis. <i>Plant Journal</i> , <b>2009</b> , 58, 299-317	6.9	141
257	Mitochondrial biogenesis during germination in maize embryos. <i>Plant Physiology</i> , <b>2001</b> , 125, 662-72	6.6	135
256	Developmental physiology of cluster-root carboxylate synthesis and exudation in harsh hakea. Expression of phosphoenolpyruvate carboxylase and the alternative oxidase. <i>Plant Physiology</i> , <b>2004</b> , 135, 549-60	6.6	132
255	TCP transcription factors link the regulation of genes encoding mitochondrial proteins with the circadian clock in Arabidopsis thaliana. <i>Plant Cell</i> , <b>2010</b> , 22, 3921-34	11.6	131
254	Recent surprises in protein targeting to mitochondria and plastids. <i>Current Opinion in Plant Biology</i> , <b>2006</b> , 9, 610-5	9.9	131
253	A transcriptomic and proteomic characterization of the Arabidopsis mitochondrial protein import apparatus and its response to mitochondrial dysfunction. <i>Plant Physiology</i> , <b>2004</b> , 134, 777-89	6.6	130
252	Differential expression of the multigene family encoding the soybean mitochondrial alternative oxidase. <i>Plant Physiology</i> , <b>1997</b> , 114, 455-66	6.6	127
251	Analysis of respiratory chain regulation in roots of soybean seedlings. <i>Plant Physiology</i> , <b>1998</b> , 117, 1083-83	6.6	125

250	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> , <b>2006</b> , 60, 201-234	4.6	121
249	The seminal fluid proteome of the honeybee <i>Apis mellifera</i> . <i>Proteomics</i> , <b>2009</b> , 9, 2085-97	4.8	120
248	Abiotic environmental stress induced changes in the <i>Arabidopsis thaliana</i> chloroplast, mitochondria and peroxisome proteomes. <i>Journal of Proteomics</i> , <b>2009</b> , 72, 367-78	3.9	119
247	Defining core metabolic and transcriptomic responses to oxygen availability in rice embryos and young seedlings. <i>Plant Physiology</i> , <b>2009</b> , 151, 306-22	6.6	118
246	Phage-type RNA polymerase RPOTmp performs gene-specific transcription in mitochondria of <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , <b>2009</b> , 21, 2762-79	11.6	116
245	Combining experimental and predicted datasets for determination of the subcellular location of proteins in <i>Arabidopsis</i> . <i>Plant Physiology</i> , <b>2005</b> , 139, 598-609	6.6	116
244	A plant outer mitochondrial membrane protein with high amino acid sequence identity to a chloroplast protein import receptor. <i>FEBS Letters</i> , <b>2004</b> , 557, 109-14	3.8	114
243	Cytochrome and alternative respiratory pathways compete for electrons in the presence of pyruvate in soybean mitochondria. <i>Archives of Biochemistry and Biophysics</i> , <b>1995</b> , 318, 394-400	4.1	114
242	The pentatricopeptide repeat gene OTP51 with two LAGLIDADG motifs is required for the cis-splicing of plastid <i>ycf3</i> intron 2 in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , <b>2008</b> , 56, 157-68	6.9	113
241	SUBAcon: a consensus algorithm for unifying the subcellular localization data of the <i>Arabidopsis</i> proteome. <i>Bioinformatics</i> , <b>2014</b> , 30, 3356-64	7.2	112
240	NAD malic enzyme and the control of carbohydrate metabolism in potato tubers. <i>Plant Physiology</i> , <b>2001</b> , 126, 1139-49	6.6	110
239	Differential molecular responses of rice and wheat coleoptiles to anoxia reveal novel metabolic adaptations in amino acid metabolism for tissue tolerance. <i>Plant Physiology</i> , <b>2011</b> , 156, 1706-24	6.6	108
238	Blue-native PAGE in plants: a tool in analysis of protein-protein interactions. <i>Plant Methods</i> , <b>2005</b> , 1, 11	5.8	108
237	Experimental analysis of the rice mitochondrial proteome, its biogenesis, and heterogeneity. <i>Plant Physiology</i> , <b>2009</b> , 149, 719-34	6.6	107
236	Analysis of the <i>Arabidopsis</i> cytosolic proteome highlights subcellular partitioning of central plant metabolism. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 1571-82	5.6	103
235	Cyclotides associate with leaf vasculature and are the products of a novel precursor in petunia ( <i>Solanaceae</i> ). <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 27033-46	5.4	103
234	The products of the mitochondrial <i>orf25</i> and <i>orfB</i> genes are FO components in the plant F1FO ATP synthase. <i>FEBS Letters</i> , <b>2003</b> , 540, 201-5	3.8	102
233	Refining the definition of plant mitochondrial presequences through analysis of sorting signals, N-terminal modifications, and cleavage motifs. <i>Plant Physiology</i> , <b>2009</b> , 150, 1272-85	6.6	101

232	Does anoxia tolerance involve altering the energy currency towards PPI?. <i>Trends in Plant Science</i> , <b>2008</b> , 13, 221-7	13.1	98
231	Mechanisms of Photodamage and Protein Turnover in Photoinhibition. <i>Trends in Plant Science</i> , <b>2018</b> , 23, 667-676	13.1	97
230	The MetabolomeExpress Project: enabling web-based processing, analysis and transparent dissemination of GC/MS metabolomics datasets. <i>BMC Bioinformatics</i> , <b>2010</b> , 11, 376	3.6	97
229	Free-flow electrophoresis for purification of plant mitochondria by surface charge. <i>Plant Journal</i> , <b>2007</b> , 52, 583-94	6.9	97
228	Dynamic changes in the mitochondrial electron transport chain underpinning cold acclimation of leaf respiration. <i>Plant, Cell and Environment</i> , <b>2008</b> , 31, 1156-69	8.4	96
227	Proteomic analysis of glutathione S-transferases of <i>Arabidopsis thaliana</i> reveals differential salicylic acid-induced expression of the plant-specific phi and tau classes. <i>Plant Molecular Biology</i> , <b>2004</b> , 54, 205-19	4.6	96
226	Specificity of the Organic Acid Activation of Alternative Oxidase in Plant Mitochondria. <i>Plant Physiology</i> , <b>1996</b> , 111, 613-618	6.6	96
225	Mitochondrial composition, function and stress response in plants. <i>Journal of Integrative Plant Biology</i> , <b>2012</b> , 54, 887-906	8.3	95
224	The cytotoxic lipid peroxidation product, 4-hydroxy-2-nonenal, specifically inhibits decarboxylating dehydrogenases in the matrix of plant mitochondria. <i>FEBS Letters</i> , <b>2000</b> , 481, 117-21	3.8	91
223	Heterogeneity of the mitochondrial proteome for photosynthetic and non-photosynthetic <i>Arabidopsis</i> metabolism. <i>Molecular and Cellular Proteomics</i> , <b>2008</b> , 7, 1297-316	7.6	88
222	Proteins with high turnover rate in barley leaves estimated by proteome analysis combined with in planta isotope labeling. <i>Plant Physiology</i> , <b>2014</b> , 166, 91-108	6.6	87
221	The Scope, Functions, and Dynamics of Posttranslational Protein Modifications. <i>Annual Review of Plant Biology</i> , <b>2019</b> , 70, 119-151	30.7	87
220	Exploring the function-location nexus: using multiple lines of evidence in defining the subcellular location of plant proteins. <i>Plant Cell</i> , <b>2009</b> , 21, 1625-31	11.6	86
219	Succinate dehydrogenase: the complex roles of a simple enzyme. <i>Current Opinion in Plant Biology</i> , <b>2013</b> , 16, 344-9	9.9	85
218	Insights into female sperm storage from the spermathecal fluid proteome of the honeybee <i>Apis mellifera</i> . <i>Genome Biology</i> , <b>2009</b> , 10, R67	18.3	84
217	Wheat mitochondrial proteomes provide new links between antioxidant defense and plant salinity tolerance. <i>Journal of Proteome Research</i> , <b>2010</b> , 9, 6595-604	5.6	83
216	MASCP Gator: an aggregation portal for the visualization of <i>Arabidopsis</i> proteomics data. <i>Plant Physiology</i> , <b>2011</b> , 155, 259-70	6.6	83
215	Nine 3-ketoacyl-CoA thiolases (KATs) and acetoacetyl-CoA thiolases (ACATs) encoded by five genes in <i>Arabidopsis thaliana</i> are targeted either to peroxisomes or cytosol but not to mitochondria. <i>Plant Molecular Biology</i> , <b>2007</b> , 63, 97-108	4.6	83

214	The biological roles of glutaredoxins. <i>Biochemical Journal</i> , <b>2012</b> , 446, 333-48	3.8	82
213	Complex I dysfunction redirects cellular and mitochondrial metabolism in Arabidopsis. <i>Plant Physiology</i> , <b>2008</b> , 148, 1324-41	6.6	82
212	Type II NAD(P)H dehydrogenases are targeted to mitochondria and chloroplasts or peroxisomes in Arabidopsis thaliana. <i>FEBS Letters</i> , <b>2008</b> , 582, 3073-9	3.8	81
211	Regulation of Alternative Oxidase Activity by Pyruvate in Soybean Mitochondria. <i>Plant Physiology</i> , <b>1994</b> , 106, 1421-1427	6.6	81
210	Nucleotide and RNA metabolism prime translational initiation in the earliest events of mitochondrial biogenesis during Arabidopsis germination. <i>Plant Physiology</i> , <b>2012</b> , 158, 1610-27	6.6	79
209	Targets of stress-induced oxidative damage in plant mitochondria and their impact on cell carbon/nitrogen metabolism. <i>Journal of Experimental Botany</i> , <b>2004</b> , 55, 1-10	7	77
208	Regulation of the Alternative Oxidase in Plants and Fungi.. <i>Functional Plant Biology</i> , <b>1995</b> , 22, 497	2.7	77
207	Wheat mitochondrial respiration shifts from the tricarboxylic acid cycle to the GABA shunt under salt stress. <i>New Phytologist</i> , <b>2020</b> , 225, 1166-1180	9.8	77
206	Diurnal changes in mitochondrial function reveal daily optimization of light and dark respiratory metabolism in Arabidopsis. <i>Molecular and Cellular Proteomics</i> , <b>2010</b> , 9, 2125-39	7.6	76
205	Multiple lines of evidence localize signaling, morphology, and lipid biosynthesis machinery to the mitochondrial outer membrane of Arabidopsis. <i>Plant Physiology</i> , <b>2011</b> , 157, 1093-113	6.6	76
204	A survey of the Arabidopsis thaliana mitochondrial phosphoproteome. <i>Proteomics</i> , <b>2009</b> , 9, 4229-40	4.8	75
203	Protein synthesis by rice coleoptiles during prolonged anoxia: implications for glycolysis, growth and energy utilization. <i>Annals of Botany</i> , <b>2005</b> , 96, 703-15	4.1	74
202	Insights into the composition and assembly of the membrane arm of plant complex I through analysis of subcomplexes in Arabidopsis mutant lines. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 26081-92 <sup>†</sup>	5.4	73
201	Response of mitochondria to light intensity in the leaves of sun and shade species. <i>Plant, Cell and Environment</i> , <b>2005</b> , 28, 760-771	8.4	73
200	The alternative oxidase is encoded in a multigene family in soybean. <i>Planta</i> , <b>1996</b> , 198, 197-201	4.7	70
199	A tomato alternative oxidase protein with altered regulatory properties. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2003</b> , 1606, 153-62	4.6	69
198	Peptide macrocyclization by a bifunctional endoprotease. <i>Chemistry and Biology</i> , <b>2015</b> , 22, 571-82		68
197	The Cytotoxic lipid peroxidation product 4-hydroxy-2-nonenal covalently modifies a selective range of proteins linked to respiratory function in plant mitochondria. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 37436-47	5.4	68



196	Resolving and identifying protein components of plant mitochondrial respiratory complexes using three dimensions of gel electrophoresis. <i>Journal of Proteome Research</i> , <b>2008</b> , 7, 786-94	5.6	66
195	Changes in the mitochondrial proteome during the anoxia to air transition in rice focus around cytochrome-containing respiratory complexes. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 39471-8	5.4	64
194	Sensitivity of plant mitochondrial terminal oxidases to the lipid peroxidation product 4-hydroxy-2-nonenal (HNE). <i>Biochemical Journal</i> , <b>2005</b> , 387, 865-70	3.8	63
193	Differential expression of alternative oxidase genes in soybean cotyledons during postgerminative development. <i>Plant Physiology</i> , <b>1998</b> , 118, 675-82	6.6	63
192	Proteins within the seminal fluid are crucial to keep sperm viable in the honeybee <i>Apis mellifera</i> . <i>Journal of Insect Physiology</i> , <b>2011</b> , 57, 409-14	2.4	60
191	Matrix-assisted laser desorption/ionisation mass spectrometry imaging and its development for plant protein imaging. <i>Plant Methods</i> , <b>2011</b> , 7, 21	5.8	59
190	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> , <b>2014</b> , 37, 2260-77	8.4	58
189	Recent advances in the composition and heterogeneity of the Arabidopsis mitochondrial proteome. <i>Frontiers in Plant Science</i> , <b>2013</b> , 4, 4	6.2	58
188	Oxygen initiation of respiration and mitochondrial biogenesis in rice. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 15619-31	5.4	57
187	Salicylic Acid-Dependent Plant Stress Signaling via Mitochondrial Succinate Dehydrogenase. <i>Plant Physiology</i> , <b>2017</b> , 173, 2029-2040	6.6	56
186	Succinate dehydrogenase assembly factor 2 is needed for assembly and activity of mitochondrial complex II and for normal root elongation in Arabidopsis. <i>Plant Journal</i> , <b>2013</b> , 73, 429-41	6.9	56
185	The Arabidopsis thaliana 2-D gel mitochondrial proteome: Refining the value of reference maps for assessing protein abundance, contaminants and post-translational modifications. <i>Proteomics</i> , <b>2011</b> , 11, 1720-33	4.8	56
184	Nucleoside diphosphate kinase III is localized to the inter-membrane space in plant mitochondria. <i>FEBS Letters</i> , <b>2001</b> , 508, 272-6	3.8	56
183	Protein turnover in plant biology. <i>Nature Plants</i> , <b>2015</b> , 1, 15017	11.5	55
182	Investigating the role of respiration in plant salinity tolerance by analyzing mitochondrial proteomes from wheat and a salinity-tolerant Amphiploid (wheat <i>Triticum aestivum</i> × <i>Lophopyrum elongatum</i> ). <i>Journal of Proteome Research</i> , <b>2013</b> , 12, 4807-29	5.6	55
181	Degradation rate of mitochondrial proteins in Arabidopsis thaliana cells. <i>Journal of Proteome Research</i> , <b>2013</b> , 12, 3449-59	5.6	53
180	Analysis of the soluble ATP-binding proteome of plant mitochondria identifies new proteins and nucleotide triphosphate interactions within the matrix. <i>Journal of Proteome Research</i> , <b>2006</b> , 5, 3459-69	5.6	53
179	Mitochondrial and Chloroplast Stress Responses Are Modulated in Distinct Touch and Chemical Inhibition Phases. <i>Plant Physiology</i> , <b>2016</b> , 171, 2150-65	6.6	53



178	Determining degradation and synthesis rates of arabidopsis proteins using the kinetics of progressive <sup>15</sup> N labeling of two-dimensional gel-separated protein spots. <i>Molecular and Cellular Proteomics</i> , <b>2012</b> , 11, M111.010025	7.6	52
177	Revolutionizing agriculture with synthetic biology. <i>Nature Plants</i> , <b>2019</b> , 5, 1207-1210	11.5	52
176	Core principles which explain variation in respiration across biological scales. <i>New Phytologist</i> , <b>2019</b> , 222, 670-686	9.8	52
175	Mitochondrial acyl carrier proteins in <i>Arabidopsis thaliana</i> are predominantly soluble matrix proteins and none can be confirmed as subunits of respiratory Complex I. <i>Plant Molecular Biology</i> , <b>2007</b> , 64, 319-27	4.6	51
174	AMPDB: the Arabidopsis Mitochondrial Protein Database. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, D605-10	20.1	50
173	Proteomic identification of divalent metal cation binding proteins in plant mitochondria. <i>FEBS Letters</i> , <b>2003</b> , 537, 96-100	3.8	50
172	Analysis of the Arabidopsis Mitochondrial Proteome. <i>Plant Physiology</i> , <b>2001</b> , 127, 1711-1727	6.6	50
171	MSL1 is a mechanosensitive ion channel that dissipates mitochondrial membrane potential and maintains redox homeostasis in mitochondria during abiotic stress. <i>Plant Journal</i> , <b>2016</b> , 88, 809-825	6.9	50
170	Gene transfer from mitochondrion to nucleus: novel mechanisms for gene activation from Cox2. <i>Plant Journal</i> , <b>2002</b> , 30, 11-21	6.9	49
169	Sperm and seminal fluid proteomes of the field cricket <i>Teleogryllus oceanicus</i> : identification of novel proteins transferred to females at mating. <i>Insect Molecular Biology</i> , <b>2013</b> , 22, 115-30	3.4	48
168	Alternative solutions to radical problems. <i>Trends in Plant Science</i> , <b>1997</b> , 2, 288-290	13.1	48
167	Identification of intra- and intermolecular disulphide bonding in the plant mitochondrial proteome by diagonal gel electrophoresis. <i>Proteomics</i> , <b>2007</b> , 7, 4158-70	4.8	48
166	Mitophagy: A Mechanism for Plant Growth and Survival. <i>Trends in Plant Science</i> , <b>2018</b> , 23, 434-450	13.1	47
165	Microaerobic respiration and oxidative phosphorylation by soybean nodule mitochondria: implications for nitrogen fixation. <i>Plant, Cell and Environment</i> , <b>1995</b> , 18, 715-726	8.4	47
164	Engineering Strategies to Boost Crop Productivity by Cutting Respiratory Carbon Loss. <i>Plant Cell</i> , <b>2019</b> , 31, 297-314	11.6	46
163	Plant mitochondrial 2-oxoglutarate dehydrogenase complex: purification and characterization in potato. <i>Biochemical Journal</i> , <b>1999</b> , 343, 327-334	3.8	46
162	Variation in Leaf Respiration Rates at Night Correlates with Carbohydrate and Amino Acid Supply. <i>Plant Physiology</i> , <b>2017</b> , 174, 2261-2273	6.6	44
161	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> , <b>2016</b> , 170, 1284-99	6.6	43

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