

Ian D Small

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

164 papers	17,197 citations	69 h-index	130 g-index
179 ext. papers	21,048 ext. citations	8.7 avg, IF	6.7 L-index

#	Paper	IF	Citations
164	Triticeae genome sequences reveal huge expansions of gene families implicated in fertility restoration.. <i>Current Opinion in Plant Biology</i> , 2022 , 66, 102166	9.9	0
163	Chromosome-scale genome assembly provides insights into rye biology, evolution and agronomic potential. <i>Nature Genetics</i> , 2021 , 53, 564-573	36.3	35
162	A synthetic RNA editing factor edits its target site in chloroplasts and bacteria. <i>Communications Biology</i> , 2021 , 4, 545	6.7	4
161	Adapting the CROPGRO model to simulate growth and production of Brassica carinata, a bio-fuel crop. <i>GCB Bioenergy</i> , 2021 , 13, 1134-1148	5.6	3
160	The effects of sulfur fertility on yield and seed components in oilseed Brassica carinata. <i>Crop Science</i> , 2021 , 61, 4229	2.4	0
159	The Pentatricopeptide Repeat Protein MEF100 Is Required for the Editing of Four Mitochondrial Editing Sites in. <i>Cells</i> , 2021 , 10,	7.9	1
158	The genetic basis of cytoplasmic male sterility and fertility restoration in wheat. <i>Nature Communications</i> , 2021 , 12, 1036	17.4	20
157	Nitrogen calibration strip: An on-farm tool to further reduce N requirements in cotton on an integrated crop-livestock rotation system. <i>Agronomy Journal</i> , 2021 , 113, 3615-3627	2.2	
156	Deepred-Mt: Deep representation learning for predicting C-to-U RNA editing in plant mitochondria. <i>Computers in Biology and Medicine</i> , 2021 , 136, 104682	7	3
155	Cofactor-independent RNA editing by a synthetic S-type PPR protein.. <i>Synthetic Biology</i> , 2021 , 7, ysab0343	3.3	1
154	Towards a plant model for enigmatic U-to-C RNA editing: the organelle genomes, transcriptomes, editomes and candidate RNA editing factors in the hornwort <i>Anthoceros agrestis</i> . <i>New Phytologist</i> , 2020 , 225, 1974-1992	9.8	17
153	Large scale genome skimming from herbarium material for accurate plant identification and phylogenomics. <i>Plant Methods</i> , 2020 , 16, 1	5.8	61
152	The Expansion and Diversification of Pentatricopeptide Repeat RNA-Editing Factors in Plants. <i>Molecular Plant</i> , 2020 , 13, 215-230	14.4	28
151	Multiple wheat genomes reveal global variation in modern breeding. <i>Nature</i> , 2020 , 588, 277-283	50.4	180
150	Plant organellar RNA editing: what 30 years of research has revealed. <i>Plant Journal</i> , 2020 , 101, 1040-1056	6.9	77
149	The coordinated action of PPR4 and EMB2654 on each intron half mediates trans-splicing of rps12 transcripts in plant chloroplasts. <i>Plant Journal</i> , 2019 , 100, 1193-1207	6.9	13
148	Recent range expansion in Australian hummock grasses () inferred using genotyping-by-sequencing. <i>AoB PLANTS</i> , 2019 , 11, plz017	2.9	10

147	Evolutionary Model of Plastidial RNA Editing in Angiosperms Presumed from Genome-Wide Analysis of Amborella trichopoda. <i>Plant and Cell Physiology</i> , 2019 , 60, 2141-2151	4.9	5
146	Transplastomic Arabidopsis plants at last. <i>Nature Plants</i> , 2019 , 5, 249-250	11.5	2
145	Resolving intergeneric relationships in the aervoid clade and the backbone of Ptilotus (Amaranthaceae): Evidence from whole plastid genomes and morphology. <i>Taxon</i> , 2019 , 68, 297-314	0.8	5
144	Simulation of heterosis in a genome-scale metabolic network provides mechanistic explanations for increased biomass production rates in hybrid plants. <i>Npj Systems Biology and Applications</i> , 2019 , 5, 24	5	7
143	The E domain of CRR2 participates in sequence-specific recognition of RNA in plastids. <i>New Phytologist</i> , 2019 , 222, 218-229	9.8	15
142	Plastome-Wide Rearrangements and Gene Losses in Carnivorous Droseraceae. <i>Genome Biology and Evolution</i> , 2019 , 11, 472-485	3.9	23
141	Genome-scale transfer of mitochondrial DNA from legume hosts to the holoparasite Lophophytum mirabile (Balanophoraceae). <i>Molecular Phylogenetics and Evolution</i> , 2019 , 132, 243-250	4.1	23
140	High intraspecific diversity of Restorer-of-fertility-like genes in barley. <i>Plant Journal</i> , 2019 , 97, 281-295	6.9	17
139	Establishment of Photosynthesis through Chloroplast Development Is Controlled by Two Distinct Regulatory Phases. <i>Plant Physiology</i> , 2018 , 176, 1199-1214	6.6	25
138	Editing of Chloroplast by PPR Editing Factor EMB2261 Is Essential for Development. <i>Frontiers in Plant Science</i> , 2018 , 9, 841	6.2	16
137	Complete Chloroplast Genome Sequences of Four Meliaceae Species and Comparative Analyses. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	17
136	The transcriptional landscape of polyploid wheat. <i>Science</i> , 2018 , 361,	33.3	368
135	Shifting the limits in wheat research and breeding using a fully annotated reference genome. <i>Science</i> , 2018 , 361,	33.3	1296
134	Optimizing Swathing and Chemical Desiccant Timing to Accelerate Winter Carinata Maturation. <i>Agronomy Journal</i> , 2018 , 110, 1379-1389	2.2	9
133	Targeted cleavage of mRNA induced by a modified pentatricopeptide repeat protein in plant mitochondria. <i>Communications Biology</i> , 2018 , 1, 166	6.7	23
132	Fern genomes elucidate land plant evolution and cyanobacterial symbioses. <i>Nature Plants</i> , 2018 , 4, 460-472	11.5	176
131	In Arabidopsis thaliana distinct alleles encoding mitochondrial RNA PROCESSING FACTOR 4 support the generation of additional 5' termini of ccmB transcripts. <i>Plant Molecular Biology</i> , 2017 , 93, 659-668	4.6	3
130	The mitochondrial pentatricopeptide repeat protein PPR19 is involved in the stabilization of NADH dehydrogenase 1 transcripts and is crucial for mitochondrial function and Arabidopsis thaliana development. <i>New Phytologist</i> , 2017 , 215, 202-216	9.8	39

129	The Pentatricopeptide Repeat Protein EMB2654 Is Essential for Trans-Splicing of a Chloroplast Small Ribosomal Subunit Transcript. <i>Plant Physiology</i> , 2017 , 173, 1164-1176	6.6	26
128	Protein Complexes Implicated in RNA Editing in Plant Organelles. <i>Molecular Plant</i> , 2017 , 10, 1255-1257	14.4	8
127	In Silico Identification of Candidate Genes for Fertility Restoration in Cytoplasmic Male Sterile Perennial Ryegrass (<i>Lolium perenne</i> L.). <i>Genome Biology and Evolution</i> , 2017 , 9, 351-362	3.9	17
126	The nuclear and organellar tRNA-derived RNA fragment population in <i>Arabidopsis thaliana</i> is highly dynamic. <i>Nucleic Acids Research</i> , 2017 , 45, 3460-3472	20.1	57
125	Mitochondrial Defects Confer Tolerance against Cellulose Deficiency. <i>Plant Cell</i> , 2016 , 28, 2276-2290	11.6	35
124	Evolutionary plasticity of restorer-of-fertility-like proteins in rice. <i>Scientific Reports</i> , 2016 , 6, 35152	4.9	32
123	Integration of complete chloroplast genome sequences with small amplicon datasets improves phylogenetic resolution in <i>Acacia</i> . <i>Molecular Phylogenetics and Evolution</i> , 2016 , 96, 1-8	4.1	46
122	SOT1, a pentatricopeptide repeat protein with a small MutS-related domain, is required for correct processing of plastid 23S-4.5S rRNA precursors in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2016 , 85, 607-21	6.9	48
121	Redefining the structural motifs that determine RNA binding and RNA editing by pentatricopeptide repeat proteins in land plants. <i>Plant Journal</i> , 2016 , 85, 532-47	6.9	176
120	AEF1/MPR25 is implicated in RNA editing of plastid atpF and mitochondrial nad5, and also promotes atpF splicing in <i>Arabidopsis</i> and rice. <i>Plant Journal</i> , 2015 , 81, 661-9	6.9	54
119	Predictable alteration of sequence recognition by RNA editing factors from <i>Arabidopsis</i> . <i>Plant Cell</i> , 2015 , 27, 403-16	11.6	55
118	Surveillance and cleavage of eukaryotic tRNAs. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 1878-93	9.3	51
117	The Complete Sequence of the <i>Acacia ligulata</i> Chloroplast Genome Reveals a Highly Divergent clpP1 Gene. <i>PLoS ONE</i> , 2015 , 10, e0125768	3.7	35
116	The design and structural characterization of a synthetic pentatricopeptide repeat protein. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015 , 71, 196-208		28
115	The solution structure of the pentatricopeptide repeat protein PPR10 upon binding atpH RNA. <i>Nucleic Acids Research</i> , 2015 , 43, 1918-26	20.1	40
114	SUBAcon: a consensus algorithm for unifying the subcellular localization data of the <i>Arabidopsis</i> proteome. <i>Bioinformatics</i> , 2014 , 30, 3356-64	7.2	112
113	Surrogate mutants for studying mitochondrially encoded functions. <i>Biochimie</i> , 2014 , 100, 234-42	4.6	42
112	Pentatricopeptide repeat proteins in plants. <i>Annual Review of Plant Biology</i> , 2014 , 65, 415-42	30.7	584

111	Using the SUBcellular database for Arabidopsis proteins to localize the Deg protease family. <i>Frontiers in Plant Science</i> , 2014 , 5, 396	6.2	13
110	The Pentatricopeptide Repeat Proteins TANG2 and ORGANELLE TRANSCRIPT PROCESSING439 Are Involved in the Splicing of the Multipartite nad5 Transcript Encoding a Subunit of Mitochondrial Complex I. <i>Plant Physiology</i> , 2014 , 165, 1409-1416	6.6	61
109	The potential for manipulating RNA with pentatricopeptide repeat proteins. <i>Plant Journal</i> , 2014 , 78, 772-82	6.9	50
108	nMAT4, a maturase factor required for nad1 pre-mRNA processing and maturation, is essential for holocomplex biogenesis in Arabidopsis mitochondria. <i>Plant Journal</i> , 2014 , 78, 253-68	6.9	64
107	The cytidine deaminase signature HxE(x)n CxxC of DYW1 binds zinc and is necessary for RNA editing of ndhD-1. <i>New Phytologist</i> , 2014 , 203, 1090-1095	9.8	73
106	Small kernel 1 encodes a pentatricopeptide repeat protein required for mitochondrial nad7 transcript editing and seed development in maize (<i>Zea mays</i>) and rice (<i>Oryza sativa</i>). <i>Plant Journal</i> , 2014 , 79, 797-809	6.9	94
105	Quantitative analysis of motifs contributing to the interaction between PLS-subfamily members and their target RNA sequences in plastid RNA editing. <i>Plant Journal</i> , 2014 , 80, 870-82	6.9	42
104	Mitochondrial genomes as living fossils. <i>BMC Biology</i> , 2013 , 11, 30	7.3	10
103	The E domains of pentatricopeptide repeat proteins from different organelles are not functionally equivalent for RNA editing. <i>Plant Journal</i> , 2013 , 74, 935-45	6.9	50
102	Organelle transcriptomes: products of a deconstructed genome. <i>Current Opinion in Microbiology</i> , 2013 , 16, 652-8	7.9	45
101	Is agriculture driving the diversification of the Bemisia tabaci species complex (Hemiptera: Sternorrhyncha: Aleyrodidae)? Dating, diversification and biogeographic evidence revealed. <i>BMC Evolutionary Biology</i> , 2013 , 13, 228	3	76
100	A reevaluation of dual-targeting of proteins to mitochondria and chloroplasts. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013 , 1833, 253-9	4.9	105
99	Fluorescent protein tagging as a tool to define the subcellular distribution of proteins in plants. <i>Frontiers in Plant Science</i> , 2013 , 4, 214	6.2	38
98	A DYW-protein knockout in Physcomitrella affects two closely spaced mitochondrial editing sites and causes a severe developmental phenotype. <i>Plant Journal</i> , 2013 , 76, 420-32	6.9	34
97	mCSF1, a nucleus-encoded CRM protein required for the processing of many mitochondrial introns, is involved in the biogenesis of respiratory complexes I and IV in Arabidopsis. <i>New Phytologist</i> , 2013 , 199, 379-394	9.8	74
96	PPR-SMRs: ancient proteins with enigmatic functions. <i>RNA Biology</i> , 2013 , 10, 1501-10	4.8	39
95	SUBA3: a database for integrating experimentation and prediction to define the SUBcellular location of proteins in Arabidopsis. <i>Nucleic Acids Research</i> , 2013 , 41, D1185-91	20.1	243
94	A PORR domain protein required for rpl2 and ccmF(C) intron splicing and for the biogenesis of c-type cytochromes in Arabidopsis mitochondria. <i>Plant Journal</i> , 2012 , 69, 996-1005	6.9	75

93	The plastid redox insensitive 2 mutant of Arabidopsis is impaired in PEP activity and high light-dependent plastid redox signalling to the nucleus. <i>Plant Journal</i> , 2012 , 70, 279-91	6.9	67
92	nMAT1, a nuclear-encoded maturase involved in the trans-splicing of nad1 intron 1, is essential for mitochondrial complex I assembly and function. <i>Plant Journal</i> , 2012 , 71, 413-26	6.9	89
91	Arabidopsis chloroplast RNA binding proteins CP31A and CP29A associate with large transcript pools and confer cold stress tolerance by influencing multiple chloroplast RNA processing steps. <i>Plant Cell</i> , 2012 , 24, 4266-80	11.6	84
90	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
89	Systems-based analysis of Arabidopsis leaf growth reveals adaptation to water deficit. <i>Molecular Systems Biology</i> , 2012 , 8, 606	12.2	163
88	Mutations in an Arabidopsis mitochondrial transcription termination factor-related protein enhance thermotolerance in the absence of the major molecular chaperone HSP101. <i>Plant Cell</i> , 2012 , 24, 3349-65	11.6	77
87	The SCO2 protein disulphide isomerase is required for thylakoid biogenesis and interacts with LHCb1 chlorophyll a/b binding proteins which affects chlorophyll biosynthesis in Arabidopsis seedlings. <i>Plant Journal</i> , 2012 , 69, 743-54	6.9	46
86	A combinatorial amino acid code for RNA recognition by pentatricopeptide repeat proteins. <i>PLoS Genetics</i> , 2012 , 8, e1002910	6	347
85	Two interacting proteins are necessary for the editing of the NdhD-1 site in Arabidopsis plastids. <i>Plant Cell</i> , 2012 , 24, 3684-94	11.6	89
84	Arabidopsis CSP41 proteins form multimeric complexes that bind and stabilize distinct plastid transcripts. <i>Journal of Experimental Botany</i> , 2012 , 63, 1251-70	7	42
83	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
82	Albinism does not correlate with biparental inheritance of plastid DNA in interspecific hybrids in <i>Cicer</i> species. <i>Plant Science</i> , 2011 , 180, 628-33	5.3	12
81	The evolution of RNA editing and pentatricopeptide repeat genes. <i>New Phytologist</i> , 2011 , 191, 37-47	9.8	206
80	OTP70 is a pentatricopeptide repeat protein of the E subgroup involved in splicing of the plastid transcript rpoC1. <i>Plant Journal</i> , 2011 , 65, 532-42	6.9	90
79	Organellar RNA editing. <i>Wiley Interdisciplinary Reviews RNA</i> , 2011 , 2, 493-506	9.3	48
78	The pentatricopeptide repeat protein OTP87 is essential for RNA editing of nad7 and atp1 transcripts in Arabidopsis mitochondria. <i>Journal of Biological Chemistry</i> , 2011 , 286, 21361-71	5.4	66
77	An Arabidopsis dual-localized pentatricopeptide repeat protein interacts with nuclear proteins involved in gene expression regulation. <i>Plant Cell</i> , 2011 , 23, 730-40	11.6	80
76	Rampant gene loss in the underground orchid <i>Rhizanthella gardneri</i> highlights evolutionary constraints on plastid genomes. <i>Molecular Biology and Evolution</i> , 2011 , 28, 2077-86	8.3	181

75	Selection patterns on restorer-like genes reveal a conflict between nuclear and mitochondrial genomes throughout angiosperm evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 1723-8	11.5	190
74	A PPR protein involved in regulating nuclear genes encoding mitochondrial proteins?. <i>Plant Signaling and Behavior</i> , 2011 , 6, 748-50	2.5	9
73	In silico methods for identifying organellar and suborganellar targeting peptides in Arabidopsis chloroplast proteins and for predicting the topology of membrane proteins. <i>Methods in Molecular Biology</i> , 2011 , 774, 243-80	1.4	6
72	The cytoskeleton and the peroxisomal-targeted snowy cotyledon3 protein are required for chloroplast development in Arabidopsis. <i>Plant Cell</i> , 2010 , 22, 3423-38	11.6	59
71	Identification of a pentatricopeptide repeat protein implicated in splicing of intron 1 of mitochondrial nad7 transcripts. <i>Journal of Biological Chemistry</i> , 2010 , 285, 32192-9	5.4	103
70	Nuclearly encoded splicing factors implicated in RNA splicing in higher plant organelles. <i>Molecular Plant</i> , 2010 , 3, 691-705	14.4	97
69	Plant RNA editing. <i>RNA Biology</i> , 2010 , 7, 213-9	4.8	119
68	The pentatricopeptide repeat protein OTP82 is required for RNA editing of plastid ndhB and ndhG transcripts. <i>Plant Journal</i> , 2010 , 61, 339-49	6.9	82
67	Arabidopsis tRNA adenosine deaminase arginine edits the wobble nucleotide of chloroplast tRNA ^{Arg} (ACG) and is essential for efficient chloroplast translation. <i>Plant Cell</i> , 2009 , 21, 2058-71	11.6	59
66	Phage-type RNA polymerase RPOTmp performs gene-specific transcription in mitochondria of Arabidopsis thaliana. <i>Plant Cell</i> , 2009 , 21, 2762-79	11.6	116
65	Remodeled respiration in ndufs4 with low phosphorylation efficiency suppresses Arabidopsis germination and growth and alters control of metabolism at night. <i>Plant Physiology</i> , 2009 , 151, 603-19	6.6	216
64	Chloroplast ribonucleoprotein CP31A is required for editing and stability of specific chloroplast mRNAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 6002-7	11.5	91
63	Approaches to defining dual-targeted proteins in Arabidopsis. <i>Plant Journal</i> , 2009 , 57, 1128-39	6.9	121
62	The Arabidopsis gene YS1 encoding a DYW protein is required for editing of rpoB transcripts and the rapid development of chloroplasts during early growth. <i>Plant Journal</i> , 2009 , 58, 82-96	6.9	155
61	Pentatricopeptide repeat proteins with the DYW motif have distinct molecular functions in RNA editing and RNA cleavage in Arabidopsis chloroplasts. <i>Plant Cell</i> , 2009 , 21, 146-56	11.6	184
60	A study of new Arabidopsis chloroplast RNA editing mutants reveals general features of editing factors and their target sites. <i>Plant Cell</i> , 2009 , 21, 3686-99	11.6	148
59	Albinism in Plants: A Major Bottleneck in Wide Hybridization, Androgenesis and Doubled Haploid Culture. <i>Critical Reviews in Plant Sciences</i> , 2009 , 28, 393-409	5.6	63
58	CLB19, a pentatricopeptide repeat protein required for editing of rpoA and clpP chloroplast transcripts. <i>Plant Journal</i> , 2008 , 56, 590-602	6.9	212

57	The pentatricopeptide repeat gene OTP51 with two LAGLIDADG motifs is required for the cis-splicing of plastid ycf3 intron 2 in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2008 , 56, 157-68	6.9	113
56	Plastid signalling to the nucleus and beyond. <i>Trends in Plant Science</i> , 2008 , 13, 602-9	13.1	316
55	Pentatricopeptide repeat proteins: a socket set for organelle gene expression. <i>Trends in Plant Science</i> , 2008 , 13, 663-70	13.1	644
54	On the expansion of the pentatricopeptide repeat gene family in plants. <i>Molecular Biology and Evolution</i> , 2008 , 25, 1120-8	8.3	283
53	Mitochondrial biogenesis and function in <i>Arabidopsis</i> . <i>The Arabidopsis Book</i> , 2008 , 6, e0111	3	32
52	Complex I dysfunction redirects cellular and mitochondrial metabolism in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2008 , 148, 1324-41	6.6	82
51	Novel proteins, putative membrane transporters, and an integrated metabolic network are revealed by quantitative proteomic analysis of <i>Arabidopsis</i> cell culture peroxisomes. <i>Plant Physiology</i> , 2008 , 148, 1809-29	6.6	156
50	RNAi for revealing and engineering plant gene functions. <i>Current Opinion in Biotechnology</i> , 2007 , 18, 148-53	11.4	111
49	Plastid tRNA genes trnC-GCA and trnN-GUU are essential for plant cell development. <i>Plant Journal</i> , 2007 , 51, 751-62	6.9	21
48	The multifarious roles of PPR proteins in plant mitochondrial gene expression. <i>Physiologia Plantarum</i> , 2007 , 129, 14-22	4.6	89
47	Pentatricopeptide repeat (PPR) proteins as sequence-specificity factors in post-transcriptional processes in organelles. <i>Biochemical Society Transactions</i> , 2007 , 35, 1643-7	5.1	193
46	Plant biotechnology 2007: all three genomes make contributions to progress. <i>Current Opinion in Biotechnology</i> , 2007 , 18, 97-99	11.4	3
45	SUBA: the <i>Arabidopsis</i> Subcellular Database. <i>Nucleic Acids Research</i> , 2007 , 35, D213-8	20.1	364
44	A rapid high-throughput method for the detection and quantification of RNA editing based on high-resolution melting of amplicons. <i>Nucleic Acids Research</i> , 2007 , 35, e114	20.1	141
43	The pentatricopeptide repeat gene OTP43 is required for trans-splicing of the mitochondrial nad1 Intron 1 in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2007 , 19, 3256-65	11.6	214
42	Genome-wide analysis of mRNA decay rates and their determinants in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2007 , 19, 3418-36	11.6	239
41	Pentatricopeptide repeat proteins in <i>Trypanosoma brucei</i> function in mitochondrial ribosomes. <i>Molecular and Cellular Biology</i> , 2007 , 27, 6876-88	4.8	87
40	A hypothesis on the identification of the editing enzyme in plant organelles. <i>FEBS Letters</i> , 2007 , 581, 4132-8	3.8	185

39	Recent surprises in protein targeting to mitochondria and plastids. <i>Current Opinion in Plant Biology</i> , 2006 , 9, 610-5	9.9	131
38	GeneFarm, structural and functional annotation of Arabidopsis gene and protein families by a network of experts. <i>Nucleic Acids Research</i> , 2005 , 33, D641-6	20.1	15
37	Dual targeting is the rule for organellar aminoacyl-tRNA synthetases in Arabidopsis thaliana. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 16484-9	11.5	195
36	Genome-wide analysis of Arabidopsis pentatricopeptide repeat proteins reveals their essential role in organelle biogenesis. <i>Plant Cell</i> , 2004 , 16, 2089-103	11.6	956
35	Versatile gene-specific sequence tags for Arabidopsis functional genomics: transcript profiling and reverse genetics applications. <i>Genome Research</i> , 2004 , 14, 2176-89	9.7	265
34	Predotar: A tool for rapidly screening proteomes for N-terminal targeting sequences. <i>Proteomics</i> , 2004 , 4, 1581-90	4.8	725
33	European consortia building integrated resources for Arabidopsis functional genomics. <i>Current Opinion in Plant Biology</i> , 2003 , 6, 426-9	9.9	40
32	Identification of the fertility restoration locus, Rfo, in radish, as a member of the pentatricopeptide-repeat protein family. <i>EMBO Reports</i> , 2003 , 4, 588-94	6.5	264
31	Discrete mutations in the presequence of potato formate dehydrogenase inhibit the in vivo targeting of GFP fusions into mitochondria. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 311, 966-71	3.4	24
30	The gene encoding Arabidopsis thaliana mitochondrial ribosomal protein S13 is a recent duplication of the gene encoding plastid S13. <i>Current Genetics</i> , 2002 , 40, 405-9	2.9	43
29	Role of editing in plant mitochondrial transfer RNAs. <i>Gene</i> , 2002 , 286, 21-4	3.8	42
28	Dual targeting to mitochondria and chloroplasts. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2001 , 1541, 54-63	4.9	203
27	Overlapping destinations for two dual targeted glycyl-tRNA synthetases in Arabidopsis thaliana and Phaseolus vulgaris. <i>Journal of Biological Chemistry</i> , 2001 , 276, 15275-83	5.4	51
26	The TATA motif, the CAA motif and the poly(T) transcription termination motif are all important for transcription re-initiation on plant tRNA genes. <i>Plant Journal</i> , 2000 , 22, 439-47	6.9	39
25	The PPR motif - a TPR-related motif prevalent in plant organellar proteins. <i>Trends in Biochemical Sciences</i> , 2000 , 25, 46-7	10.3	642
24	Duplication and quadruplication of Arabidopsis thaliana cysteinyl- and asparaginyl-tRNA synthetase genes of organellar origin. <i>Journal of Molecular Evolution</i> , 2000 , 50, 413-23	3.1	69
23	Expression of Arabidopsis thaliana mitochondrial alanyl-tRNA synthetase is not sufficient to trigger mitochondrial import of tRNA ^{Ala} in yeast. <i>Journal of Biological Chemistry</i> , 2000 , 275, 13291-6	5.4	14
22	The strange evolutionary history of plant mitochondrial tRNAs and their aminoacyl-tRNA synthetases 1999 , 90, 333-337		17

21	Implication of 5'flanking sequence elements in expression of a plant tRNA(Leu) gene. <i>Plant Molecular Biology</i> , 1998 , 36, 113-23	4.6	25
20	Two birds with one stone: genes that encode products targeted to two or more compartments. <i>Plant Molecular Biology</i> , 1998 , 38, 265-277	4.6	102
19	Potential dual targeting of an Arabidopsis archaeobacterial-like histidyl-tRNA synthetase to mitochondria and chloroplasts. <i>FEBS Letters</i> , 1998 , 431, 39-44	3.8	63
18	Structure and expression of several bean (<i>Phaseolus vulgaris</i>) nuclear transfer RNA genes: relevance to the process of tRNA import into plant mitochondria. <i>Plant Molecular Biology</i> , 1998 , 36, 613-25	4.6	9
17	Plant cytosolic tRNA ^{His} possesses an exceptional C54 in the canonical TΨC loop. <i>Nucleic Acids Research</i> , 1998 , 26, 2708-14	20.1	5
16	Two birds with one stone: genes that encode products targeted to two or more compartments 1998 , 265-277		2
15	Import and editing of plant mitochondrial transfer RNAs 1998 , 113-124		
14	Transactivation of a target gene using a suppressor tRNA in transgenic tobacco plants. <i>Plant Journal</i> , 1997 , 11, 597-604	6.9	21
13	The Same Arabidopsis Gene Encodes Both Cytosolic and Mitochondrial Alanyl-tRNA Synthetases. <i>Plant Cell</i> , 1996 , 8, 1027	11.6	10
12	Editing and import: strategies for providing plant mitochondria with a complete set of functional transfer RNAs. <i>Biochimie</i> , 1996 , 78, 518-29	4.6	68
11	A single base change prevents import of cytosolic tRNA(Ala) into mitochondria in transgenic plants. <i>Plant Journal</i> , 1996 , 10, 913-8	6.9	72
10	Characterization of the nuclear gene encoding chloroplast ribosomal protein S13 from <i>Arabidopsis thaliana</i> . <i>Current Genetics</i> , 1995 , 28, 346-52	2.9	9
9	Purification of mitochondria and mitochondrial nucleic acids from embryogenic suspension cultures of a gymnosperm, <i>Larix x leptoeuropaea</i> . <i>Plant Cell Reports</i> , 1995 , 14, 534-8	5.1	10
8	Transfer RNA import into plant mitochondria. <i>Methods in Enzymology</i> , 1995 , 260, 310-27	1.7	45
7	Characterization of some major identity elements in plant alanine and phenylalanine transfer RNAs. <i>Plant Molecular Biology</i> , 1994 , 26, 1843-53	4.6	32
6	Transfer RNA-mediated suppression of stop codons in protoplasts and transgenic plants. <i>Plant Molecular Biology</i> , 1993 , 22, 681-90	4.6	29
5	Sequence and transcript analysis of the Nco2.5 Ogura-specific fragment correlated with cytoplasmic male sterility in <i>Brassica</i> cybrids. <i>Molecular Genetics and Genomics</i> , 1992 , 235, 340-8		148
4	Evolution of plant mitochondrial genomes via substoichiometric intermediates. <i>Cell</i> , 1989 , 58, 69-76	56.2	235

3	A comparison of cytoplasmic revertants to fertility from different CMS-S maize sources. <i>Theoretical and Applied Genetics</i> , 1988 , 76, 609-18	6	31
2	Stoichiometric differences in DNA molecules containing the atpA gene suggest mechanisms for the generation of mitochondrial genome diversity in maize. <i>EMBO Journal</i> , 1987 , 6, 865-869	13	149
1	Chromosome-scale genome assembly provides insights into rye biology, evolution, and agronomic potential		10