Jeffrey D Palmer

List of Publications by Citations

211 papers	30,478 citations	98 h-index	172 g-index
216 ext. papers	33,503 ext. citations	11.2 avg, IF	7.05 L-index

#	Paper	IF	Citations
211	Phylogenetics of Seed Plants: An Analysis of Nucleotide Sequences from the Plastid Gene rbcL. *Annals of the Missouri Botanical Garden*, **1993**, 80, 528	1.8	1264
210	Investigating deep phylogenetic relationships among cyanobacteria and plastids by small subunit rRNA sequence analysis. *Journal of Eukaryotic Microbiology*, **1999**, 46, 327-38	3.6	984
209	Horizontal gene transfer in eukaryotic evolution. *Nature Reviews Genetics*, **2008**, 9, 605-18	30.1	899
208	The draft genome of the transgenic tropical fruit tree papaya (Carica papaya Linnaeus). *Nature*, **2008**, 452, 991-6	50.4	826
207	A plastid of probable green algal origin in Apicomplexan parasites. *Science*, **1997**, 275, 1485-9	33.3	631
206	The Amborella genome and the evolution of flowering plants. *Science*, **2013**, 342, 1241089	33.3	546
205	Plant mitochondrial DNA evolves rapidly in structure, but slowly in sequence. *Journal of Molecular Evolution*, **1988**, 28, 87-97	3.1	523
204	Perspectives on archaeal diversity, thermophily and monophyly from environmental rRNA sequences. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 9188-93	11.5	512
203	Function and evolution of a minimal plastid genome from a nonphotosynthetic parasitic plant. *Proceedings of the National Academy of Sciences of the United States of America*, **1992**, 89, 10648-52	11.5	473
202	Evolution of mitochondrial gene content: gene loss and transfer to the nucleus. *Molecular Phylogenetics and Evolution*, **2003**, 29, 380-95	4.1	471
201	Animals and fungi are each other's closest relatives: congruent evidence from multiple proteins. *Proceedings of the National Academy of Sciences of the United States of America*, **1993**, 90, 11558-62	11.5	425
200	Tripartite structure of the Brassica campestris mitochondrial genome. *Nature*, **1984**, 307, 437-440	50.4	399
199	Phylogenetic Relationships of Dipsacales Based on rbcL Sequences. *Annals of the Missouri Botanical Garden*, **1992**, 79, 333	1.8	384
198	Chloroplast DNA evolution and the origin of amphidiploid Brassica species. *Theoretical and Applied Genetics*, **1983**, 65, 181-9	6	374
197	Chloroplast DNA systematics: a review of methods and data analysis. *American Journal of Botany*, **1994**, 81, 1205-1224	2.7	367
196	Seed plant phylogeny inferred from all three plant genomes: monophyly of extant gymnosperms and origin of Gnetales from conifers. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 4086-91	11.5	364
195	Chloroplast DNA Variation and Plant Phylogeny. *Annals of the Missouri Botanical Garden*, **1988**, 75, 1180	1.8	357

194	Chloroplast DNA rearrangements are more frequent when a large inverted repeat sequence is lost. *Cell*, **1982**, 29, 537-50	56.2	354
193	Widespread horizontal transfer of mitochondrial genes in flowering plants. *Nature*, **2003**, 424, 197-201	50.4	348
192	Rapid evolution of enormous, multichromosomal genomes in flowering plant mitochondria with exceptionally high mutation rates. *PLoS Biology*, **2012**, 10, e1001241	9.7	335
191	RNA-mediated transfer of the gene coxII from the mitochondrion to the nucleus during flowering plant evolution. *Cell*, **1991**, 66, 473-81	56.2	335
190	The complete chloroplast genome sequence of Pelargonium x hortorum: organization and evolution of the largest and most highly rearranged chloroplast genome of land plants. *Molecular Biology and Evolution*, **2006**, 23, 2175-90	8.3	322
189	Many parallel losses of infA from chloroplast DNA during angiosperm evolution with multiple independent transfers to the nucleus. *Plant Cell*, **2001**, 13, 645-58	11.6	321
188	Punctuated evolution of mitochondrial gene content: high and variable rates of mitochondrial gene loss and transfer to the nucleus during angiosperm evolution. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 9905-12	11.5	296
187	Insights into the evolution of mitochondrial genome size from complete sequences of Citrullus lanatus and Cucurbita pepo (Cucurbitaceae). *Molecular Biology and Evolution*, **2010**, 27, 1436-48	8.3	294
186	The gain of three mitochondrial introns identifies liverworts as the earliest land plants. *Nature*, **1998**, 394, 671-4	50.4	286
185	Monophyly of the Asteridae and Identification of Their Major Lineages Inferred From DNA Sequences of rbcL. *Annals of the Missouri Botanical Garden*, **1992**, 79, 249	1.8	277
184	Rampant horizontal transfer and duplication of rubisco genes in eubacteria and plastids. *Molecular Biology and Evolution*, **1996**, 13, 873-82	8.3	267
183	Chloroplast DNA exists in two orientations. *Nature*, **1983**, 301, 92-93	50.4	267
182	Phytochrome control of RNA levels in developing pea and mung-bean leaves. *Planta*, **1983**, 158, 487-500	4.7	266
181	Loss of photosynthetic and chlororespiratory genes from the plastid genome of a parasitic flowering plant. *Nature*, **1990**, 348, 337-9	50.4	263
180	Evidence from beta-tubulin phylogeny that microsporidia evolved from within the fungi. *Molecular Biology and Evolution*, **2000**, 17, 23-31	8.3	261
179	Chloroplast DNA Evolution and Biosystematic Uses of Chloroplast DNA Variation. *American Naturalist*, **1987**, 130, S6-S29	3.7	256
178	Isolation and structural analysis of chloroplast DNA. *Methods in Enzymology*, **1986**, 118, 167-186	1.7	248
177	An ancient group I intron shared by eubacteria and chloroplasts. *Science*, **1990**, 250, 1570-3	33.3	247

176	A chloroplast DNA inversion marks an ancient evolutionary split in the sunflower family (Asteraceae). *Proceedings of the National Academy of Sciences of the United States of America*, **1987**, 84, 5818-22	11.5	246
175	Dynamic evolution of plant mitochondrial genomes: mobile genes and introns and highly variable mutation rates. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 6960-6	11.5	245
174	Chloroplast DNA evolution and phylogenetic relationships in Lycopersicon. *Proceedings of the National Academy of Sciences of the United States of America*, **1982**, 79, 5006-10	11.5	245
173	Explosive invasion of plant mitochondria by a group I intron. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 14244-9	11.5	230
172	Contrasting modes and tempos of genome evolution in land plant organelles. *Trends in Genetics*, **1990**, 6, 115-20	8.5	230
171	The recent origins of introns. *Current Opinion in Genetics and Development*, **1991**, 1, 470-7	4.9	229
170	Horizontal gene transfer in plants. *Journal of Experimental Botany*, **2007**, 58, 1-9	7	228
169	The root of the universal tree and the origin of eukaryotes based on elongation factor phylogeny. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 7749-54	11.5	221
168	Horizontal transfer of entire genomes via mitochondrial fusion in the angiosperm Amborella. *Science*, **2013**, 342, 1468-73	33.3	219
167	A Parsimony Analysis of the Asteridae Sensu Lato Based on rbcL Sequences. *Annals of the Missouri Botanical Garden*, **1993**, 80, 700	1.8	216
166	Mitochondrial substitution rates are extraordinarily elevated and variable in a genus of flowering plants. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 17741-6	11.5	212
165	Multigene phylogeny of land plants with special reference to bryophytes and the earliest land plants. *Molecular Biology and Evolution*, **2000**, 17, 1885-95	8.3	208
164	Evolutionary transfer of the chloroplast tufA gene to the nucleus. *Nature*, **1990**, 344, 262-5	50.4	204
163	Chloroplast DNA systematics: a review of methods and data analysis **1994**, 81, 1205		199
162	THE SYMBIOTIC BIRTH AND SPREAD OF PLASTIDS: HOW MANY TIMES AND WHODUNIT?. *Journal of Phycology*, **2003**, 39, 4-12	3	195
161	Massive horizontal transfer of mitochondrial genes from diverse land plant donors to the basal angiosperm Amborella. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 17747-52	11.5	194
160	Rearrangements in the chloroplast genomes of mung bean and pea. *Proceedings of the National Academy of Sciences of the United States of America*, **1981**, 78, 5533-7	11.5	193
159	Origins and recombination of the bacterial-sized multichromosomal mitochondrial genome of cucumber. *Plant Cell*, **2011**, 23, 2499-513	11.6	189

158	Repeated, recent and diverse transfers of a mitochondrial gene to the nucleus in flowering plants. *Nature*, **2000**, 408, 354-7	50.4	189
157	Plant genetics: gene transfer from parasitic to host plants. *Nature*, **2004**, 432, 165-6	50.4	183
156	Multigene analyses identify the three earliest lineages of extant flowering plants. *Current Biology*, **1999**, 9, 1485-8	6.3	182
155	Accelerated evolution of a false-truffle from a mushroom ancestor. *Nature*, **1989**, 339, 140-2	50.4	182
154	Extensive variation in synonymous substitution rates in mitochondrial genes of seed plants. *BMC Evolutionary Biology*, **2007**, 7, 135	3	181
153	Chloroplast DNA from lettuce and Barnadesia (Asteraceae): structure, gene localization, and characterization of a large inversion. *Current Genetics*, **1987**, 11, 553-564	2.9	178
152	Localized hypermutation and associated gene losses in legume chloroplast genomes. *Genome Research*, **2010**, 20, 1700-10	9.7	168
151	Unicircular structure of the Brassica hirta mitochondrial genome. *Current Genetics*, **1987**, 11, 565-70	2.9	168
150	Chloroplast DNA variation and evolution in pisum: patterns of change and phylogenetic analysis. *Genetics*, **1985**, 109, 195-213	4	168
149	Plastid Chromosomes: Structure and Evolution **1991**, 5-53		166
148	Chloroplast DNA evolution among legumes: Loss of a large inverted repeat occurred prior to other sequence rearrangements. *Current Genetics*, **1987**, 11, 275-286	2.9	166
147	Extensive and widespread homologies between mitochondrial DNA and chloroplast DNA in plants. *Proceedings of the National Academy of Sciences of the United States of America*, **1984**, 81, 1946-50	11.5	164
146	Genome-scale data, angiosperm relationships, and "ending incongruence": a cautionary tale in phylogenetics. *Trends in Plant Science*, **2004**, 9, 477-83	13.1	159
145	EVOLUTIONARY SIGNIFICANCE OF THE LOSS OF THE CHLOROPLAST-DNA INVERTED REPEAT IN THE LEGUMINOSAE SUBFAMILY PAPILIONOIDEAE. *Evolution; International Journal of Organic Evolution*, **1990**, 44, 390-402	3.8	158
144	Chloroplast genomes of two conifers lack a large inverted repeat and are extensively rearranged. *Proceedings of the National Academy of Sciences of the United States of America*, **1988**, 85, 3898-902	11.5	149
143	Phylogeny of early land plants: insights from genes and genomes. *Trends in Plant Science*, **1999**, 4, 26-30	13.1	148
142	Conservation of chloroplast genome structure among vascular plants. *Current Genetics*, **1986**, 10, 823-832	2.9	146
141	Physical and gene mapping of chloroplast DNA from Atriplex triangularis and Cucumis sativa. *Nucleic Acids Research*, **1982**, 10, 1593-605	20.1	146

140	Intron "sliding" and the diversity of intron positions. *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 10739-44	11.5	143
139	An unusual mitochondrial DNA plasmid in the genus Brassica. *Nature*, **1983**, 301, 725-728	50.4	143
138	Use of Chloroplast DNA Rearrangements in Reconstructing Plant Phylogeny **1992**, 14-35		142
137	The plant tree of life: an overview and some points of view. *American Journal of Botany*, **2004**, 91, 1437-45	2.7	134
136	A Chloroplast DNA Phylogeny of the Solanaceae: Subfamilial Relationships and Character Evolution. *Annals of the Missouri Botanical Garden*, **1992**, 79, 346	1.8	133
135	The gain of two chloroplast tRNA introns marks the green algal ancestors of land plants. *Nature*, **1990**, 345, 268-70	50.4	133
134	Rapid evolution of the plastid translational apparatus in a nonphotosynthetic plant: loss or accelerated sequence evolution of tRNA and ribosomal protein genes. *Journal of Molecular Evolution*, **1992**, 35, 304-17	3.1	131
133	Physical and gene organization of mitochondrial DNA in fertile and male sterile sunflower. CMS-associated alterations in structure and transcription of the atpA gene. *Nucleic Acids Research*, **1988**, 16, 3787-99	20.1	131
132	Miniaturized mitogenome of the parasitic plant Viscum scurruloideum is extremely divergent and dynamic and has lost all nad genes. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E3515-24	11.5	130
131	Unusual structure of geranium chloroplast DNA: A triple-sized inverted repeat, extensive gene duplications, multiple inversions, and two repeat families. *Proceedings of the National Academy of Sciences of the United States of America*, **1987**, 84, 769-73	11.5	130
130	A MOLECULAR REEXAMINATION OF INTROGRESSION BETWEEN HELIANTHUS ANNUUS AND H. BOLANDERI (COMPOSITAE). *Evolution; International Journal of Organic Evolution*, **1988**, 42, 227-238	3.8	130
129	Intracellular gene transfer in action: dual transcription and multiple silencings of nuclear and mitochondrial cox2 genes in legumes. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 13863-8	11.5	129
128	The "fossilized" mitochondrial genome of Liriodendron tulipifera: ancestral gene content and order, ancestral editing sites, and extraordinarily low mutation rate. *BMC Biology*, **2013**, 11, 29	7.3	127
127	An exceptional horizontal gene transfer in plastids: gene replacement by a distant bacterial paralog and evidence that haptophyte and cryptophyte plastids are sisters. *BMC Biology*, **2006**, 4, 31	7.3	127
126	Multiple major increases and decreases in mitochondrial substitution rates in the plant family Geraniaceae. *BMC Evolutionary Biology*, **2005**, 5, 73	3	124
125	Gene phylogenies and the endosymbiotic origin of plastids. *BioSystems*, **1992**, 28, 75-90	1.9	121
124	The mitochondrial genome of the legume Vigna radiata and the analysis of recombination across short mitochondrial repeats. *PLoS ONE*, **2011**, 6, e16404	3.7	120
123	Frequent, phylogenetically local horizontal transfer of the cox1 group I Intron in flowering plant mitochondria. *Molecular Biology and Evolution*, **2008**, 25, 1762-77	8.3	119

122	Evolutionary significance of inversions in legume chloroplast DNAs. *Current Genetics*, **1988**, 14, 65-74	2.9	114
121	The highly rearranged chloroplast genome of Trachelium caeruleum (Campanulaceae): multiple inversions, inverted repeat expansion and contraction, transposition, insertions/deletions, and several repeat families. *Current Genetics*, **1997**, 31, 419-29	2.9	110
120	Phylogenetic analysis of tufA sequences indicates a cyanobacterial origin of all plastids. *Molecular Phylogenetics and Evolution*, **1995**, 4, 110-28	4.1	110
119	Long branch attraction, taxon sampling, and the earliest angiosperms: Amborella or monocots?. *BMC Evolutionary Biology*, **2004**, 4, 35	3	106
118	Evolution of Chloroplast and Mitochondrial DNA in Plants and Algae **1985**, 131-240		104
117	Genes for two mitochondrial ribosomal proteins in flowering plants are derived from their chloroplast or cytosolic counterparts. *Plant Cell*, **2002**, 14, 931-43	11.6	101
116	The origin of plastids and their spread via secondary symbiosis. *Plant Systematics and Evolution Supplementum = Entwicklungsgeschichte Und Systematik Der Pflanzen Supplementum*, **1997**, 53-86		100
115	Tripartite mitochondrial genome of spinach: physical structure, mitochondrial gene mapping, and locations of transposed chloroplast DNA sequences. *Nucleic Acids Research*, **1986**, 14, 5651-66	20.1	98
114	Tricircular mitochondrial genomes of Brassica and Raphanus: reversal of repeat configurations by inversion. *Nucleic Acids Research*, **1986**, 14, 9755-64	20.1	98
113	Multiple Independent Losses of Two Genes and One Intron from Legume Chloroplast Genomes. *Systematic Botany*, **1995**, 20, 272	0.7	93
112	Nucleotide Sequences of the rbcL Gene Indicate Monophyly of Mustard Oil Plants. *Annals of the Missouri Botanical Garden*, **1993**, 80, 686	1.8	93
111	SIX INDEPENDENT LOSSES OF THE CHLOROPLAST DNA rpl2 INTRON IN DICOTYLEDONS: MOLECULAR AND PHYLOGENETIC IMPLICATIONS. *Evolution; International Journal of Organic Evolution*, **1991**, 45, 1245-1259	3.8	93
110	Ginkgo and Welwitschia Mitogenomes Reveal Extreme Contrasts in Gymnosperm Mitochondrial Evolution. *Molecular Biology and Evolution*, **2016**, 33, 1448-60	8.3	90
109	Horizontal acquisition of multiple mitochondrial genes from a parasitic plant followed by gene conversion with host mitochondrial genes. *BMC Biology*, **2010**, 8, 150	7.3	90
108	Restriction Site Mapping of the Chloroplast DNA Inverted Repeat: A Molecular Phylogeny of the Asteridae. *Annals of the Missouri Botanical Garden*, **1992**, 79, 266	1.8	90
107	PHYLOGENETIC ANALYSIS OF CHLOROPLAST DNA RESTRICTION SITE DATA AT HIGHER TAXONOMIC LEVELS: AN EXAMPLE FROM THE ASTERACEAE. *Evolution; International Journal of Organic Evolution*, **1990**, 44, 2089-2105	3.8	87
106	Organelle genomes: going, going, gone!. *Science*, **1997**, 275, 790-1	33.3	86
105	The evolutionary split of Pinaceae from other conifers: evidence from an intron loss and a multigene phylogeny. *Molecular Phylogenetics and Evolution*, **2001**, 21, 167-75	4.1	86

104	Extensive mitochondrial specific transcription of the Brassica campestris mitochondrial genome. *Nucleic Acids Research*, **1987**, 15, 5141-56	20.1	86
103	Recent acceleration of plastid sequence and structural evolution coincides with extreme mitochondrial divergence in the angiosperm genus Silene. *Genome Biology and Evolution*, **2012**, 4, 294-306	3.9	83
102	Implications for the Phylogeny, Classification, and Biogeography of Solanum from cpDNA Restriction Site Variation. *Systematic Botany*, **1997**, 22, 19	0.7	83
101	Phylogeny and Character Evolution in the Asteraceae Based on Chloroplast DNA Restriction Site Mapping. *Systematic Botany*, **1991**, 16, 98	0.7	82
100	Patterns of partial RNA editing in mitochondrial genes of Beta vulgaris. *Molecular Genetics and Genomics*, **2006**, 276, 285-93	3.1	79
99	Transcription, splicing and editing of plastid RNAs in the nonphotosynthetic plant Epifagus virginiana. *Plant Molecular Biology*, **1995**, 29, 721-33	4.6	79
98	Relationships Among Phaseoloid Legumes Based on Sequences from Eight Chloroplast Regions. *Systematic Botany*, **2009**, 34, 115-128	0.7	78
97	Extensive loss of translational genes in the structurally dynamic mitochondrial genome of the angiosperm Silene latifolia. *BMC Evolutionary Biology*, **2010**, 10, 274	3	78
96	Isolation and characterization of rad51 orthologs from Coprinus cinereus and Lycopersicon esculentum, and phylogenetic analysis of eukaryotic recA homologs. *Current Genetics*, **1997**, 31, 144-57	2.9	78
95	Parabasalian flagellates are ancient eukaryotes. *Nature*, **2000**, 405, 635-7	50.4	78
94	Mitochondrial DNA in Plant Systematics: Applications and Limitations **1992**, 36-49		78
93	Multiple losses and transfers to the nucleus of two mitochondrial succinate dehydrogenase genes during angiosperm evolution. *Genetics*, **2001**, 158, 1289-300	4	78
92	Gorgeous mosaic of mitochondrial genes created by horizontal transfer and gene conversion. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 21576-81	11.5	74
91	Shikimate pathway in apicomplexan parasites. *Nature*, **1999**, 397, 219-20	50.4	74
90	PHYLOGENETIC IMPLICATIONS OF CHLOROPLAST DNA RESTRICTION SITE VARIATION IN THE MUTISIEAE (ASTERACEAE). *American Journal of Botany*, **1988**, 75, 753-766	2.7	74
89	Clone banks of the mung bean, pea and spinach chloroplast genomes. *Gene*, **1981**, 15, 21-6	3.8	74
88	Structure and sequence evolution of three legume chloroplast DNAs. *Molecular Genetics and Genomics*, **1983**, 190, 13-19		73
87	Extensive loss of RNA editing sites in rapidly evolving Silene mitochondrial genomes: selection vs. retroprocessing as the driving force. *Genetics*, **2010**, 185, 1369-80	4	72

86	Six Independent Losses of the Chloroplast DNA rpl2 Intron in Dicotyledons: Molecular and Phylogenetic Implications. *Evolution; International Journal of Organic Evolution*, **1991**, 45, 1245	3.8	70
85	Phylogenetic Implications of rbcL Sequence Variation in the Asteraceae. *Annals of the Missouri Botanical Garden*, **1992**, 79, 428	1.8	69
84	Recombination sequences in plant mitochondrial genomes: diversity and homologies to known mitochondrial genes. *Nucleic Acids Research*, **1984**, 12, 6141-57	20.1	67
83	Phylogenetic Relationships of the Geraniaceae and Geraniales from rbcL Sequence Comparisons. *Annals of the Missouri Botanical Garden*, **1993**, 80, 661	1.8	65
82	The cyanobacterial origin and vertical transmission of the plastid tRNA(Leu) group-I intron. *Current Genetics*, **2000**, 37, 12-23	2.9	60
81	Structural evolution and flip-flop recombination of chloroplast DNA in the fern genus Osmunda. *Current Genetics*, **1986**, 10, 835-841	2.9	60
80	Phylogenetic analysis reveals five independent transfers of the chloroplast gene rbcL to the mitochondrial genome in angiosperms. *Current Genetics*, **2003**, 43, 131-8	2.9	58
79	A Chloroplast DNA Phylogeny of the Caryophyllales Based on Structural and Inverted Repeat Restriction Site Variation. *Systematic Botany*, **1994**, 19, 236	0.7	57
78	Evolutionary Significance of the Loss of the Chloroplast-DNA Inverted Repeat in the Leguminosae Subfamily Papilionoideae. *Evolution; International Journal of Organic Evolution*, **1990**, 44, 390	3.8	57
77	Phylogenetic Relationships in Anemone (Ranunculaceae) Based on Morphology and Chloroplast DNA. *Systematic Botany*, **1994**, 19, 169	0.7	56
76	Deoxyribonucleic acid sequence organization in the mung bean genome. *Biochemistry*, **1979**, 18, 5259-66	3.2	56
75	Comparison of Chloroplast and Mitochondrial Genome Evolution in Plants. *Plant Gene Research*, **1992**, 99-133		56
74	Characterization of radish mitochondrial atpA: influence of nuclear background on transcription of atpA-associated sequences and relationship with male sterility. *Plant Molecular Biology*, **1990**, 15, 735-46	4.6	55
73	Fine-scale mergers of chloroplast and mitochondrial genes create functional, transcompartmentally chimeric mitochondrial genes. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 16728-33	11.5	52
72	The Amborella genome: an evolutionary reference for plant biology. *Genome Biology*, **2008**, 9, 402	18.3	52
71	Mitochondrial gene transfer in pieces: fission of the ribosomal protein gene rpl2 and partial or complete gene transfer to the nucleus. *Molecular Biology and Evolution*, **2001**, 18, 2289-97	8.3	52
70	Chloroplast DNA Evidence on the Origin and Radiation of the Giant Lobelias in Eastern Africa. *Systematic Botany*, **1998**, 23, 109	0.7	51
69	A Chloroplast DNA Inversion as a Subtribal Character in the Phaseoleae (Leguminosae). *Systematic Botany*, **1990**, 15, 378	0.7	51

68	Location, identity, amount and serial entry of chloroplast DNA sequences in crucifer mitochondrial DNAs. *Current Genetics*, **1988**, 14, 501-9	2.9	50
67	Chloroplast DNA from the fern Osmunda cinnamomea: physical organization, gene localization and comparison to angiosperm. *Current Genetics*, **1982**, 5, 165-70	2.9	50
66	Gene transfer from mitochondrion to nucleus: novel mechanisms for gene activation from Cox2. *Plant Journal*, **2002**, 30, 11-21	6.9	49
65	A transcription map of the pea chloroplast genome. *Current Genetics*, **1988**, 14, 75-89	2.9	49
64	Multiple recent horizontal transfers of the cox1 intron in Solanaceae and extended co-conversion of flanking exons. *BMC Evolutionary Biology*, **2011**, 11, 277	3	47
63	Heteroplasmy of chloroplast DNA in Medicago. *Plant Molecular Biology*, **1989**, 12, 3-11	4.6	47
62	Patterns of mitochondrial DNA instability in Brassica campestris cultured cells. *Plant Molecular Biology*, **1991**, 16, 21-37	4.6	46
61	Unusual characteristics of Codium fragile chloroplast DNA revealed by physical and gene mapping. *Molecular Genetics and Genomics*, **1989**, 216, 417-21		46
60	The role of coxI-associated repeated sequences in plant mitochondrial DNA rearrangements and radish cytoplasmic male sterility. *Current Genetics*, **1991**, 19, 183-90	2.9	45
59	Green ancestry of malarial parasites?. *Current Biology*, **1992**, 2, 318-20	6.3	45
58	Evolution of mushroom mitochondrial DNA: Suillus and related genera. *Journal of Molecular Evolution*, **1989**, 28, 349-62	3.1	45
57	Mitochondrial DNAs of Suillus: three fold size change in molecules that share a common gene order. *Current Genetics*, **1988**, 13, 49-56	2.9	44
56	Molecular phylogenies of Parabasalia inferred from four protein genes and comparison with rRNA trees. *Molecular Phylogenetics and Evolution*, **2004**, 31, 572-80	4.1	43
55	A Molecular Reexamination of Introgression between Helianthus annuus and H bolanderi (Compositae). *Evolution; International Journal of Organic Evolution*, **1988**, 42, 227	3.8	42
54	The chloroplast genome arrangement ofLobelia thuliniana (Lobeliaceae): Expansion of the inverted repeat in an ancestor of theCampanulales. *Plant Systematics and Evolution*, **1999**, 214, 49-64	1.3	40
53	A review of the phylogeny and classification of the Asteraceae. *Nordic Journal of Botany*, **1992**, 12, 141-148	1.2	40
52	Novel genetic code and record-setting AT-richness in the highly reduced plastid genome of the holoparasitic plant. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 934-943	11.5	40
51	Origin of introns--early or late?. *Nature*, **1994**, 369, 526; author reply 527-8	50.4	39

50	Interfamilial Relationships of the Asteraceae: Insights from rbcL Sequence Variation. *Annals of the Missouri Botanical Garden*, **1993**, 80, 742	1.8	38
49	Structure and evolution of the largest chloroplast gene (ORF2280): internal plasticity and multiple gene loss during angiosperm evolution. *Current Genetics*, **1994**, 25, 367-78	2.9	38
48	Novel evolutionary variation in transcription and location of two chloroplast genes. *Nucleic Acids Research*, **1982**, 10, 6819-32	20.1	38
47	PHYLOGENETIC IMPLICATIONS OF CHLOROPLAST DNA RESTRICTION SITE VARIATION IN THE MUTISIEAE (ASTERACEAE) **1988**, 75, 753		38
46	Evidence from small-subunit ribosomal RNA sequences for a fungal origin of Microsporidia. *Molecular Phylogenetics and Evolution*, **2005**, 36, 606-22	4.1	37
45	Many independent origins of trans splicing of a plant mitochondrial group II intron. *Journal of Molecular Evolution*, **2004**, 59, 80-9	3.1	35
44	UNIQUE CHLOROPLAST GENOME IN SPIROGYRA MAXIMA (CHLOROPHYTA) REVEALED BY PHYSICAL AND GENE MAPPING1. *Journal of Phycology*, **1990**, 26, 490-494	3	35
43	The origin of Dendrosenecio within the Senecioneae (Asteraceae) based on chloroplastDNA EVIDENCE. *American Journal of Botany*, **1995**, 82, 1567-1573	2.7	34
42	Rubisco rules fall; gene transfer triumphs. *BioEssays*, **1995**, 17, 1005-8	4.1	33
41	Comparative mitogenomics indicates respiratory competence in parasitic Viscum despite loss of complex I and extreme sequence divergence, and reveals horizontal gene transfer and remarkable variation in genome size. *BMC Plant Biology*, **2017**, 17, 49	5.3	32
40	Homologous recombination and retention of a single form of most genes shape the highly chimeric mitochondrial genome of a cybrid plant. *New Phytologist*, **2015**, 206, 381-396	9.8	32
39	Variable intron content of the NADH dehydrogenase subunit 4 gene of plant mitochondria. *Current Genetics*, **1992**, 21, 423-30	2.9	31
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