William F Martin

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7888723/publications.pdf

Version: 2024-02-01

321 papers	36,183 citations	3334 91 h-index	3830 178 g-index
345 all docs	345 docs citations	345 times ranked	25936 citing authors

#	Article	IF	Citations
1	Role of geochemical protoenzymes (geozymes) in primordial metabolism: specific abiotic hydride transfer by metals to the biological redox cofactor NAD⁺. FEBS Journal, 2022, 289, 3148-3162.	4.7	10
2	Ancestral State Reconstructions Trace Mitochondria But Not Phagocytosis to the Last Eukaryotic Common Ancestor. Genome Biology and Evolution, 2022, 14, .	2.5	10
3	Realistic Gene Transfer to Gene Duplication Ratios Identify Different Roots in the Bacterial Phylogeny Using a Tree Reconciliation Method. Life, 2022, 12, 995.	2.4	7
4	Anomalous Phylogenetic Behavior of Ribosomal Proteins in Metagenome-Assembled Asgard Archaea. Genome Biology and Evolution, 2021, 13, .	2.5	18
5	Archaeal pseudomurein and bacterial murein cell wall biosynthesis share a common evolutionary ancestry. FEMS Microbes, 2021, 2, .	2.1	10
6	Gene Duplications Are At Least 50 Times Less Frequent than Gene Transfers in Prokaryotic Genomes. Genome Biology and Evolution, 2021, 13, .	2.5	22
7	The Autotrophic Core: An Ancient Network of 404 Reactions Converts H2, CO2, and NH3 into Amino Acids, Bases, and Cofactors. Microorganisms, 2021, 9, 458.	3.6	19
8	Gene Duplications Trace Mitochondria to the Onset of Eukaryote Complexity. Genome Biology and Evolution, 2021, 13, .	2.5	24
9	The metabolic network of the last bacterial common ancestor. Communications Biology, 2021, 4, 413.	4.4	33
10	Life in a carbon dioxide world. Nature, 2021, 592, 688-689.	27.8	9
11	To What Inanimate Matter Are We Most Closely Related and Does the Origin of Life Harbor Meaning?. Philosophies, 2021, 6, 33.	0.7	2
12	Evidence for a Syncytial Origin of Eukaryotes from Ancestral State Reconstruction. Genome Biology and Evolution, 2021, 13, .	2.5	15
13	Hydrothermalquellen und der Ursprung des Lebens. , 2021, , 203-216.		0
14	The origin of symbiogenesis: An annotated English translation of Mereschkowsky's 1910 paper on the theory of two plasma lineages. BioSystems, 2021, 199, 104281.	2.0	21
15	Pyrophosphate and Irreversibility in Evolution, or why PPi Is Not an Energy Currency and why Nature Chose Triphosphates. Frontiers in Microbiology, 2021, 12, 759359.	3.5	12
16	Editorial: Ecology, Metabolism and Evolution of Archaea-Perspectives From Proceedings of the International Workshop on Geo-Omics of Archaea. Frontiers in Microbiology, 2021, 12, 827229.	3.5	3
17	Energy at Origins: Favorable Thermodynamics of Biosynthetic Reactions in the Last Universal Common Ancestor (LUCA). Frontiers in Microbiology, 2021, 12, 793664.	3.5	23
18	Phylogenetic analyses with systematic taxon sampling show that mitochondria branch within Alphaproteobacteria. Nature Ecology and Evolution, 2020, 4, 1213-1219.	7.8	75

#	Article	IF	Citations
19	Brain energy rescue: an emerging therapeutic concept for neurodegenerative disorders of ageing. Nature Reviews Drug Discovery, 2020, 19, 609-633.	46.4	441
20	The ambivalent role of water at the origins of life. FEBS Letters, 2020, 594, 2717-2733.	2.8	37
21	Older Than Genes: The Acetyl CoA Pathway and Origins. Frontiers in Microbiology, 2020, 11, 817.	3.5	66
22	Autocatalytic chemical networks at the origin of metabolism. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20192377.	2.6	90
23	Bacterial Genes Outnumber Archaeal Genes in Eukaryotic Genomes. Genome Biology and Evolution, 2020, 12, 282-292.	2.5	39
24	A hydrogen-dependent geochemical analogue of primordial carbon and energy metabolism. Nature Ecology and Evolution, 2020, 4, 534-542.	7.8	140
25	Physiological limits to life in anoxic subseafloor sediment. FEMS Microbiology Reviews, 2020, 44, 219-231.	8.6	27
26	A spectrum of verticality across genes. PLoS Genetics, 2020, 16, e1009200.	3.5	19
27	The Evolution of Oxygen-Independent Energy Metabolism in Eukaryotes with Hydrogenosomes and Mitosomes. Microbiology Monographs, 2019, , 7-29.	0.6	0
28	Adaptation to life on land at high O ₂ via transition from ferredoxin-to NADH-dependent redox balance. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191491.	2.6	14
29	Currency, Exchange, and Inheritance in the Evolution of Symbiosis. Trends in Microbiology, 2019, 27, 836-849.	7.7	29
30	Catalysts, autocatalysis and the origin of metabolism. Interface Focus, 2019, 9, 20190072.	3.0	30
31	Nitrogenase Inhibition Limited Oxygenation of Earthâ€™s Proterozoic Atmosphere. Trends in Plant Science, 2019, 24, 1022-1031.	8.8	36
32	Carbonâ€“Metal Bonds: Rare and Primordial in Metabolism. Trends in Biochemical Sciences, 2019, 44, 807-818.	7.5	18
33	Archaeal Histone Contributions to the Origin of Eukaryotes. Trends in Microbiology, 2019, 27, 703-714.	7.7	38
34	Sediment, methane and energy. Nature Microbiology, 2019, 4, 547-549.	13.3	2
35	Energy metabolism in anaerobic eukaryotes and Earth's late oxygenation. Free Radical Biology and Medicine, 2019, 140, 279-294.	2.9	32
36	Oxygen Reductases in Alphaproteobacterial Genomes: Physiological Evolution From Low to High Oxygen Environments. Frontiers in Microbiology, 2019, 10, 499.	3.5	30

#	Article	IF	Citations
37	Archaea, the tree of life, and cellular evolution in eukaryotes. Science China Earth Sciences, 2019, 62, 489-506.	5.2	5
38	Enlarged and highly repetitive plastome of Lagarostrobos and plastid phylogenomics of Podocarpaceae. Molecular Phylogenetics and Evolution, 2019, 133, 24-32.	2.7	8
39	A physiological perspective on the origin and evolution of photosynthesis. FEMS Microbiology Reviews, 2018, 42, 205-231.	8.6	115
40	Native metals, electron bifurcation, and CO2 reduction in early biochemical evolution. Current Opinion in Microbiology, 2018, 43, 77-83.	5.1	48
41	Asking endosymbionts to do an enzymeâ€™s job. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4543-E4544.	7.1	2
42	Failure to Recover Major Events of Gene Flux in Real Biological Data Due to Method Misapplication. Genome Biology and Evolution, 2018, 10, 1198-1209.	2.5	4
43	Eukaryote lateral gene transfer is Lamarckian. Nature Ecology and Evolution, 2018, 2, 754-754.	7.8	17
44	Mosaic mitochondrial-plastid insertions into the nuclear genome show evidence of both non-homologous end joining and homologous recombination. BMC Evolutionary Biology, 2018, 18, 162.	3.2	15
45	Elusive data underlying debate at the prokaryote-eukaryote divide. Biology Direct, 2018, 13, 21.	4.6	4
46	Serpentinization: Connecting Geochemistry, Ancient Metabolism and Industrial Hydrogenation. Life, 2018, 8, 41.	2.4	61
47	Something special about <scp>CO</scp>â€dependent <scp>CO</scp>₂ fixation. FEBS Journal, 2018, 285, 4181-4195.	4.7	26
48	Lipids Are the Preferred Substrate of the Protist Naegleria gruberi, Relative of a Human Brain Pathogen. Cell Reports, 2018, 25, 537-543.e3.	6.4	24
49	Origin and phylogenetic relationships of [4Feâ€“4S]â€containing O2sensors of bacteria. Environmental Microbiology, 2018, 20, 4567-4586.	3.8	13
50	An Algal Greening of Land. Cell, 2018, 174, 256-258.	28.9	15
51	The last universal common ancestor between ancient Earth chemistry and the onset of genetics. PLoS Genetics, 2018, 14, e1007518.	3.5	120
52	Physiology, anaerobes, and the origin of mitosing cells 50 years on. Journal of Theoretical Biology, 2017, 434, 2-10.	1.7	34
53	Physiology, phylogeny, early evolution, and GAPDH. Protoplasma, 2017, 254, 1823-1834.	2.1	25
54	Energy in Ancient Metabolism. Cell, 2017, 168, 953-955.	28.9	42

#	Article	IF	Citations
55	The Mitochondrion of Euglena gracilis. Advances in Experimental Medicine and Biology, 2017, 979, 19-37.	1.6	18
56	Physiological evolution: Genomic redox footprints. Nature Plants, 2017, 3, 17071.	9.3	15
57	Unmiraculous facultative anaerobes (comment on DOI 10.1002/bies.201600174). BioEssays, 2017, 39, 1700041.	2.5	5
58	The Physiology of Phagocytosis in the Context of Mitochondrial Origin. Microbiology and Molecular Biology Reviews, 2017, 81, .	6.6	84
59	Too Much Eukaryote LGT. BioEssays, 2017, 39, 1700115.	2.5	106
60	Late Mitochondrial Origin Is an Artifact. Genome Biology and Evolution, 2017, 9, 373-379.	2.5	34
61	Symbiogenesis, gradualism, and mitochondrial energy in eukaryote origin. Periodicum Biologorum, 2017, 119, 141-158.	0.1	31
62	On Being the Right Size as an Animal with Plastids. Frontiers in Plant Science, 2017, 8, 1402.	3.6	15
63	Origin of Life, Theories of. , 2017, , .		1
64	Quantifying the Number of Independent Organelle DNA Insertions in Genome Evolution and Human Health. Genome Biology and Evolution, 2017, 9, 1190-1203.	2.5	24
65	Physiology, phylogeny, and the energetic roots of life. Periodicum Biologorum, 2017, 118, .	0.1	1
66	Physiology, phylogeny, and LUCA. Microbial Cell, 2016, 3, 582-587.	3.2	31
67	Animals, anoxic environments, and reasons to go deep. BMC Biology, 2016, 14, 44.	3.8	5
68	Energy for two: New archaeal lineages and the origin of mitochondria. BioEssays, 2016, 38, 850-856.	2.5	31
69	A natural barrier to lateral gene transfer from prokaryotes to eukaryotes revealed from genomes: the 70Â% rule. BMC Biology, 2016, 14, 89.	3.8	83
70	Bacterial Vesicle Secretion and the Evolutionary Origin of the Eukaryotic Endomembrane System. Trends in Microbiology, 2016, 24, 525-534.	7.7	133
71	AstRoMap European Astrobiology Roadmap. Astrobiology, 2016, 16, 201-243.	3.0	99
72	One step beyond a ribosome: The ancient anaerobic core. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1027-1038.	1.0	51

#	Article	IF	Citations
73	The Entnerâ€“Doudoroff pathway is an overlooked glycolytic route in cyanobacteria and plants. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5441-5446.	7.1	160
74	Reply to â€˜Is LUCA a thermophilic progenote?â€™. Nature Microbiology, 2016, 1, 16230.	13.3	14
75	Mitochondria, the Cell Cycle, and the Origin of Sex via a Syncytial Eukaryote Common Ancestor. Genome Biology and Evolution, 2016, 8, 1950-1970.	2.5	65
76	The physiology and habitat of the last universal common ancestor. Nature Microbiology, 2016, 1, 16116.	13.3	739
77	Lokiarchaeon is hydrogen dependent. Nature Microbiology, 2016, 1, 16034.	13.3	107
78	Endosymbiotic gene transfer: What bioenergetic organelles did for eukaryotic chromosomes. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, e1.	1.0	0
79	Symbiotic Associations: All About Chemistry. Advances in Environmental Microbiology, 2016, , 3-11.	0.3	1
80	Mitochondria, complexity, and evolutionary deficit spending. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E666.	7.1	28
81	Why Have Organelles Retained Genomes?. Cell Systems, 2016, 2, 70-72.	6.2	21
82	Early Microbial Evolution: The Age of Anaerobes. Cold Spring Harbor Perspectives in Biology, 2016, 8, a018127.	5.5	78
83	On the Origin of Heterotrophy. Trends in Microbiology, 2016, 24, 12-25.	7.7	112
84	Endosymbiotic gene transfer from prokaryotic pangenomes: Inherited chimerism in eukaryotes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10139-10146.	7.1	102
85	The Origin of a Killer Revealed by Bronze Age Yersinia Genomes. Cell Host and Microbe, 2015, 18, 513-514.	11.0	4
86	Big questions and skepsis: Review of â€œIn Search of Cell History. BioEssays, 2015, 37, 349-351.	2.5	1
87	Protein Import and the Origin of Red Complex Plastids. Current Biology, 2015, 25, R515-R521.	3.9	83
88	Algal endosymbionts in European Hydra strains reflect multiple origins of the zoochlorella symbiosis. Molecular Phylogenetics and Evolution, 2015, 93, 55-62.	2.7	3
89	The Ribofilm as a Concept for Lifeâ€™s Origins. Cell, 2015, 162, 13-15.	28.9	24
90	Autocatalytic sets in E. coli metabolism. Journal of Systems Chemistry, 2015, 6, 4.	1.7	68

#	Article	IF	Citations
91	Endosymbiotic theories for eukaryote origin. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140330.	4.0	390
92	Conservation of Transit Peptide-Independent Protein Import into the Mitochondrial and Hydrogenosomal Matrix. Genome Biology and Evolution, 2015, 7, 2716-2726.	2.5	51
93	Structure and Evolution of the Archaeal Lipid Synthesis Enzyme sn-Glycerol-1-phosphate Dehydrogenase. Journal of Biological Chemistry, 2015, 290, 21690-21704.	3.4	15
94	Endosymbiotic origin and differential loss of eukaryotic genes. Nature, 2015, 524, 427-432.	27.8	251
95	Eukaryotes really are special, and mitochondria are why. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4823.	7.1	33
96	Origins of major archaeal clades correspond to gene acquisitions from bacteria. Nature, 2015, 517, 77-80.	27.8	238
97	9 Early life. , 2015, , 171-184.		1
98	Using Phylogenetic Networks to Model Chinese Dialect History. Language Dynamics and Change, 2014, 4, 222-252.	0.6	26
99	Networks of lexical borrowing and lateral gene transfer in language and genome evolution. BioEssays, 2014, 36, 141-150.	2.5	30
100	Subcellular targeting of proteins and pathways during evolution. New Phytologist, 2014, 201, 1-2.	7.3	6
101	Concatenated alignments and the case of the disappearing tree. BMC Evolutionary Biology, 2014, 14, 266.	3.2	54
102	Application and comparative performance of network modularity algorithms to ecological communities classification. Acta Societatis Botanicorum Poloniae, 2014, 83, 93-102.	0.8	2
103	Plastid origin: who, when and why?. Acta Societatis Botanicorum Poloniae, 2014, 83, 281-289.	0.8	10
104	Biochemical fossils of the ancient transition from geoenergetics to bioenergetics in prokaryotic one carbon compound metabolism. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 964-981.	1.0	78
105	Chloroplast incorporation and long-term photosynthetic performance through the life cycle in laboratory cultures of Elysia timida (Sacoglossa, Heterobranchia). Frontiers in Zoology, 2014, 11, 5.	2.0	22
106	Plastid-bearing sea slugs fix CO₂in the light but do not require photosynthesis to survive. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132493.	2.6	54
107	Functional kleptoplasty in a limapontioidean genus: phylogeny, food preferences and photosynthesis inCostasiella, with a focus onC. ocellifera(Gastropoda: Sacoglossa). Journal of Molluscan Studies, 2014, 80, 499-507.	1.2	25
108	Hydrothermal vents, energy, and the origin of life: On the antiquity of methyl groups. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, e1-e2.	1.0	0

#	Article	IF	Citations
109	Of early animals, anaerobic mitochondria, and a modern sponge. BioEssays, 2014, 36, 924-932.	2.5	28
110	Endosymbiotic theory for organelle origins. Current Opinion in Microbiology, 2014, 22, 38-48.	5.1	333
111	Energy at life's origin. Science, 2014, 344, 1092-1093.	12.6	121
112	Endosymbioses in Sacoglossan Seaslugs: Plastid-Bearing Animals that Keep Photosynthetic Organelles Without Borrowing Genes. , 2014, , 291-324.		24
113	The Evolutionary Root of Flowering Plants. Systematic Biology, 2013, 62, 50-61.	5.6	71
114	Deep sequencing of Trichomonas vaginalis during the early infection of vaginal epithelial cells and amoeboid transition. International Journal for Parasitology, 2013, 43, 707-719.	3.1	76
115	Genomes of Stigonematalean Cyanobacteria (Subsection V) and the Evolution of Oxygenic Photosynthesis from Prokaryotes to Plastids. Genome Biology and Evolution, 2013, 5, 31-44.	2.5	234
116	Knockout of the abundant Trichomonas vaginalis hydrogenosomal membrane protein TvHMP23 increases hydrogenosome size but induces no compensatory upâ€regulation of paralogous copies. FEBS Letters, 2013, 587, 1333-1339.	2.8	8
117	Automated glycopeptide analysis–review of current state and future directions. Briefings in Bioinformatics, 2013, 14, 361-374.	6.5	71
118	The <scp>N</scp>â€Terminal Sequences of Four Major Hydrogenosomal Proteins Are Not Essential for Import into Hydrogenosomes of <scp>T</scp>richomonas vaginalis. Journal of Eukaryotic Microbiology, 2013, 60, 89-97.	1.7	20
119	Energy, genes and evolution: introduction to an evolutionary synthesis. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120253.	4.0	32
120	Anaerobic energy metabolism in unicellular photosynthetic eukaryotes. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 210-223.	1.0	97
121	Massively Convergent Evolution for Ribosomal Protein Gene Content in Plastid and Mitochondrial Genomes. Genome Biology and Evolution, 2013, 5, 2318-2329.	2.5	78
122	Chlorophyll Biosynthesis Gene Evolution Indicates Photosystem Gene Duplication, Not Photosystem Merger, at the Origin of Oxygenic Photosynthesis. Genome Biology and Evolution, 2013, 5, 200-216.	2.5	79
123	Is ftsH the Key to Plastid Longevity in Sacoglossan Slugs?. Genome Biology and Evolution, 2013, 5, 2540-2548.	2.5	68
124	The actin-based machinery ofTrichomonas vaginalismediates flagellate-amoeboid transition and migration across host tissue. Cellular Microbiology, 2013, 15, n/a-n/a.	2.1	58
125	Early bioenergetic evolution. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130088.	4.0	199
126	Endosymbiosis and the evolution of complexity. Biochemist, 2013, 35, 4-8.	0.5	0

#	Article	IF	Citations
127	An Evolutionary Network of Genes Present in the Eukaryote Common Ancestor Polls Genomes on Eukaryotic and Mitochondrial Origin. Genome Biology and Evolution, 2012, 4, 466-485.	2.5	119
128	A Machine Learning Approach To Identify Hydrogenosomal Proteins in Trichomonas vaginalis. Eukaryotic Cell, 2012, 11, 217-228.	3.4	24
129	The neglected genome. EMBO Reports, 2012, 13, 473-474.	4.5	41
130	The Origin of Membrane Bioenergetics. Cell, 2012, 151, 1406-1416.	28.9	313
131	Transformation and Conjugal Transfer of Foreign Genes into the Filamentous Multicellular Cyanobacteria (Subsection V) Fischerella and Chlorogloeopsis. Current Microbiology, 2012, 65, 552-560.	2.2	43
132	Acquisition of 1,000 eubacterial genes physiologically transformed a methanogen at the origin of Haloarchaea. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20537-20542.	7.1	211
133	Biochemistry and Evolution of Anaerobic Energy Metabolism in Eukaryotes. Microbiology and Molecular Biology Reviews, 2012, 76, 444-495.	6.6	656
134	Hydrogen, metals, bifurcating electrons, and proton gradients: The early evolution of biological energy conservation. FEBS Letters, 2012, 586, 485-493.	2.8	108
135	Transcriptomic Evidence That Longevity of Acquired Plastids in the Photosynthetic Slugs Elysia timida and Plakobranchus ocellatus Does Not Entail Lateral Transfer of Algal Nuclear Genes. Molecular Biology and Evolution, 2011, 28, 699-706.	8.9	119
136	Red and Problematic Green Phylogenetic Signals among Thousands of Nuclear Genes from the Photosynthetic and Apicomplexa-Related Chromera velia. Genome Biology and Evolution, 2011, 3, 1220-1230.	2.5	75
137	High growth rate, photosynthesis rate and increased hydrogen(ases) in manganese deprived cells of a newly isolated Nostoc-like cyanobacterium (SAG 2306). International Journal of Hydrogen Energy, 2011, 36, 12200-12210.	7.1	8
138	Early evolution without a tree of life. Biology Direct, 2011, 6, 36.	4.6	57
139	Planctomycetes and eukaryotes: A case of analogy not homology. BioEssays, 2011, 33, 810-817.	2.5	79
140	Networks uncover hidden lexical borrowing in Indo-European language evolution. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 1794-1803.	2.6	63
141	Directed networks reveal genomic barriers and DNA repair bypasses to lateral gene transfer among prokaryotes. Genome Research, 2011, 21, 599-609.	5.5	215
142	Networks of Gene Sharing among 329 Proteobacterial Genomes Reveal Differences in Lateral Gene Transfer Frequency at Different Phylogenetic Depths. Molecular Biology and Evolution, 2011, 28, 1057-1074.	8.9	147
143	ERAD Components in Organisms with Complex Red Plastids Suggest Recruitment of a Preexisting Protein Transport Pathway for the Periplastid Membrane. Genome Biology and Evolution, 2011, 3, 140-150.	2.5	59
144	Welcome to Genome Biology and Evolution. Genome Biology and Evolution, 2010, 1, 1-1.	2.5	1

#	Article	IF	Citations
145	Genome Networks Root the Tree of Life between Prokaryotic Domains. Genome Biology and Evolution, 2010, 2, 379-392.	2.5	80
146	The tree of life: introduction to an evolutionary debate. Biology and Philosophy, 2010, 25, 441-453.	1.4	59
147	Evolution of spliceosomal introns following endosymbiotic gene transfer. BMC Evolutionary Biology, 2010, 10, 57.	3.2	23
148	Acetate formation in the energy metabolism of parasitic helminths and protists. International Journal for Parasitology, 2010, 40, 387-397.	3.1	96
149	How did LUCA make a living? Chemiosmosis in the origin of life. BioEssays, 2010, 32, 271-280.	2.5	292
150	Anaerobic animals from an ancient, anoxic ecological niche. BMC Biology, 2010, 8, 32.	3.8	31
151	Serpentinization as a source of energy at the origin of life. Geobiology, 2010, 8, 355-371.	2.4	411
152	Variability of Wax Ester Fermentation in Natural and Bleached Euglena gracilis Strains in Response to Oxygen and the Elongase Inhibitor Flufenacet. Journal of Eukaryotic Microbiology, 2010, 57, 63-69.	1.7	58
153	The energetics of genome complexity. Nature, 2010, 467, 929-934.	27.8	964
154	Evolutionary origins of metabolic compartmentalization in eukaryotes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 847-855.	4.0	174
155	Molecular Poltergeists: Mitochondrial DNA Copies (numts) in Sequenced Nuclear Genomes. PLoS Genetics, 2010, 6, e1000834.	3.5	522
156	Genetic Diversity, Evolution and Domestication of Wheat and Barley in the Fertile Crescent. , 2010, , 137-166.		29
157	Seeing Green and Red in Diatom Genomes. Science, 2009, 324, 1651-1652.	12.6	26
158	Getting a better picture of microbial evolution en route to a network of genomes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 2187-2196.	4.0	71
159	A Machine-Learning Approach Reveals That Alignment Properties Alone Can Accurately Predict Inference of Lateral Gene Transfer from Discordant Phylogenies. Molecular Biology and Evolution, 2009, 26, 1931-1939.	8.9	11
160	A Proteomic Survey of Chlamydomonas reinhardtii Mitochondria Sheds New Light on the Metabolic Plasticity of the Organelle and on the Nature of the Â-Proteobacterial Mitochondrial Ancestor. Molecular Biology and Evolution, 2009, 26, 1533-1548.	8.9	172
161	Hydrothermalquellen und der Ursprung des Lebens. Alles hat einen Anfang, auch die Evolution. Biologie in Unserer Zeit, 2009, 39, 166-174.	0.2	6
162	Expression of Nucleusâ€Encoded Genes for Chloroplast Proteins in the Flagellate Euglena gracilis. Journal of Eukaryotic Microbiology, 2009, 56, 159-166.	1.7	23

#	Article	IF	Citations
163	Transketolase from Cyanophora paradoxa: In Vitro Import into Cyanelles and Pea Chloroplasts and a Complex History of a Gene Often, But Not Always, Transferred in the Context of Secondary Endosymbiosis. Journal of Eukaryotic Microbiology, 2009, 56, 568-576.	1.7	6
164	Prokaryotic evolution and the tree of life are two different things. Biology Direct, 2009, 4, 34.	4.6	188
165	Sulfideâ€ƒ:â€ƒquinone oxidoreductase (SQR) from the lugworm Arenicolaâ€ƒmarina shows cyanideâ€•and thioredoxinâ€dependent activity. FEBS Journal, 2008, 275, 1131-1139.	4.7	74
166	Hydrothermal vents and the origin of life. Nature Reviews Microbiology, 2008, 6, 805-814.	28.6	1,111
167	Modular networks and cumulative impact of lateral transfer in prokaryote genome evolution. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10039-10044.	7.1	366
168	Protein Import into Hydrogenosomes ofTrichomonas vaginalisInvolves both N-Terminal and Internal Targeting Signals: a Case Study of Thioredoxin Reductases. Eukaryotic Cell, 2008, 7, 1750-1757.	3.4	47
169	Genes of Cyanobacterial Origin in Plant Nuclear Genomes Point to a Heterocyst-Forming Plastid Ancestor. Molecular Biology and Evolution, 2008, 25, 748-761.	8.9	197
170	Acetate:Succinate CoA-transferase in the Hydrogenosomes of Trichomonas vaginalis. Journal of Biological Chemistry, 2008, 283, 1411-1418.	3.4	55
171	Difficulties in Testing for Covarion-Like Properties of Sequences under the Confounding Influence of Changing Proportions of Variable Sites. Molecular Biology and Evolution, 2008, 25, 1512-1520.	8.9	29
172	Energy metabolism among eukaryotic anaerobes in light of Proterozoic ocean chemistry. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 2717-2729.	4.0	78
173	Biochemical and Evolutionary Aspects of Eukaryotes That Inhabit Sulfidic Environments. , 2008, , 36-45.		3
174	Ancestral genome sizes specify the minimum rate of lateral gene transfer during prokaryote evolution. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 870-875.	7.1	186
175	Rate and Polarity of Gene Fusion and Fission in Oryza sativa and Arabidopsis thaliana. Molecular Biology and Evolution, 2007, 24, 110-121.	8.9	21
176	Evolutionary Dynamics of Introns in Plastid-Derived Genes in Plants: Saturation Nearly Reached but Slow Intron Gain Continues. Molecular Biology and Evolution, 2007, 25, 111-119.	8.9	27
177	Molecular Diversity at 18 Loci in 321 Wild and 92 Domesticate Lines Reveal No Reduction of Nucleotide Diversity during Triticum monococcum (Einkorn) Domestication: Implications for the Origin of Agriculture. Molecular Biology and Evolution, 2007, 24, 2657-2668.	8.9	162
178	On the origin of biochemistry at an alkaline hydrothermal vent. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 1887-1926.	4.0	581
179	Eukaryote and Mitochondrial Origins: Two Sides of the Same Coin and Too Much Ado About Oxygen. , 2007, , 55-73.		4
180	Supertrees and symbiosis in eukaryote genome evolution. Trends in Microbiology, 2007, 15, 435-437.	7.7	11

#	Article	IF	Citations
181	The Evolution of Eukaryotes. Science, 2007, 316, 542c-543c.	12.6	24
182	The origin of mitochondria in light of a fluid prokaryotic chromosome model. Biology Letters, 2007, 3, 180-184.	2.3	86
183	Genome history in the symbiotic hybrid Euglena gracilis. Gene, 2007, 402, 35-39.	2.2	43
184	A novel prokaryotictrans-2-enoyl-CoA reductase from the spirocheteTreponema denticola. FEBS Letters, 2007, 581, 1561-1566.	2.8	35
185	Independent Wheat B and G Genome Origins in Outcrossing Aegilops Progenitor Haplotypes. Molecular Biology and Evolution, 2007, 24, 217-227.	8.9	194
186	Testing hypotheses without considering predictions. BioEssays, 2007, 29, 500-503.	2.5	16
187	Out of thin air. Nature, 2007, 445, 610-612.	27.8	144
188	Purification, microsequencing and cloning of spinach ATP-dependent phosphofructokinase link sequence and function for the plant enzyme. FEBS Journal, 2007, 274, 429-438.	4.7	22
189	A reality check for alignments and trees. Trends in Genetics, 2007, 23, 478-480.	6.7	13
190	Anaerobic Eukaryotes in Pursuit of Phylogenetic Normality: the Evolution of Hydrogenosomes and Mitosomes. , 2007, , 1-20.		7
191	The tree of one percent. Genome Biology, 2006, 7, 118.	9.6	313
192	A positive definition of prokaryotes. Nature, 2006, 442, 868-868.	27.8	42
193	Introns and the origin of nucleusâ€“cytosol compartmentalization. Nature, 2006, 440, 41-45.	27.8	438
194	Eukaryotic evolution, changes and challenges. Nature, 2006, 440, 623-630.	27.8	805
195	Haplotype structure at seven barley genes: relevance to gene pool bottlenecks, phylogeny of ear type and site of barley domestication. Molecular Genetics and Genomics, 2006, 276, 230-241.	2.1	114
196	The difference between organelles and endosymbionts. Current Biology, 2006, 16, R1016-R1017.	3.9	86
197	Euglena gracilis Ribonucleotide Reductase. Journal of Biological Chemistry, 2006, 281, 5604-5611.	3.4	19
198	Pyruvate Formate-lyase and a Novel Route of Eukaryotic ATP Synthesis in Chlamydomonas Mitochondria*. Journal of Biological Chemistry, 2006, 281, 9909-9918.	3.4	118

#	Article	IF	Citations
199	Getting a better picture of evolution. Environmental Microbiology, 2005, 7, 479-480.	3.8	0
200	Molecular evolution: Lateral gene transfer and other possibilities. Heredity, 2005, 94, 565-566.	2.6	44
201	The alternative oxidase from Euglena gracilis. Journal of Eukaryotic Microbiology, 2005, 52, 7S-27S.	1.7	0
202	On the origin of genomes and cells within inorganic compartments. Trends in Genetics, 2005, 21, 647-654.	6.7	331
203	Mutational Decay and Age of Chloroplast and Mitochondrial Genomes Transferred Recently to Angiosperm Nuclear Chromosomes. Plant Physiology, 2005, 138, 1723-1733.	4.8	144
204	Mitochondrial trans-2-Enoyl-CoA Reductase of Wax Ester Fermentation from Euglena gracilis Defines a New Family of Enzymes Involved in Lipid Synthesis. Journal of Biological Chemistry, 2005, 280, 4329-4338.	3.4	80
205	Archaebacteria (Archaea) and the origin of the eukaryotic nucleus. Current Opinion in Microbiology, 2005, 8, 630-637.	5.1	77
206	The missing link between hydrogenosomes and mitochondria. Trends in Microbiology, 2005, 13, 457-459.	7.7	37
207	Chloroplast genome phylogenetics: why we need independent approaches to plant molecular evolution. Trends in Plant Science, 2005, 10, 203-209.	8.8	102
208	Phylogenomics of the Reproductive Parasite Wolbachia pipientis wMel: A Streamlined Genome Overrun by Mobile Genetic Elements. PLoS Biology, 2004, 2, e69.	5.6	713
209	A Genome Phylogeny for Mitochondria Among Â-Proteobacteria and a Predominantly Eubacterial Ancestry of Yeast Nuclear Genes. Molecular Biology and Evolution, 2004, 21, 1643-1660.	8.9	307
210	Specific and differential inhibition of very-long-chain fatty acid elongases from Arabidopsis thaliana by different herbicides. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 11903-11908.	7.1	207
211	Chloroplast phosphoglycerate kinase from Euglena gracilis. FEBS Journal, 2004, 271, 4123-4131.	0.2	23
212	Endosymbiotic gene transfer: organelle genomes forge eukaryotic chromosomes. Nature Reviews Genetics, 2004, 5, 123-135.	16.3	1,297
213	Early evolution comes full circle. Nature, 2004, 431, 134-137.	27.8	51
214	The rocky roots of the acetyl-CoA pathway. Trends in Biochemical Sciences, 2004, 29, 358-363.	7.5	373
215	Reading the entrails of chickens: molecular timescales of evolution and the illusion of precision. Trends in Genetics, 2004, 20, 80-86.	6.7	618
216	Pathogenic archaebacteria: do they not exist because archaebacteria use different vitamins?. BioEssays, 2004, 26, 592-593.	2.5	12

#	Article	IF	Citations
217	Euglena gracilis Rhodoquinone:Ubiquinone Ratio and Mitochondrial Proteome Differ under Aerobic and Anaerobic Conditions. Journal of Biological Chemistry, 2004, 279, 22422-22429.	3.4	76
218	Identification of prokaryotic homologues indicates an endosymbiotic origin for the alternative oxidases of mitochondria (AOX) and chloroplasts (PTOX). Gene, 2004, 330, 143-148.	2.2	44
219	Bifunctional aldehyde/alcohol dehydrogenase (ADHE) in chlorophyte algal mitochondria. Plant Molecular Biology, 2003, 53, 175-188.	3.9	50
220	Early Cell Evolution, Eukaryotes, Anoxia, Sulfide, Oxygen, Fungi First (?), and a Tree of Genomes Revisited. IUBMB Life, 2003, 55, 193-204.	3.4	108
221	Interspecific evolution: microbial symbiosis, endosymbiosis and gene transfer. Environmental Microbiology, 2003, 5, 641-649.	3.8	68
222	Essence of mitochondria. Nature, 2003, 426, 127-128.	27.8	293
223	The smoking gun of gene transfer. Nature Genetics, 2003, 33, 442-442.	21.4	5
224	Structure and Properties of an Engineered Transketolase from Maize. Plant Physiology, 2003, 132, 1941-1949.	4.8	49
225	Single Eubacterial Origin of Eukaryotic Sulfide:Quinone Oxidoreductase, a Mitochondrial Enzyme Conserved from the Early Evolution of Eukaryotes During Anoxic and Sulfidic Times. Molecular Biology and Evolution, 2003, 20, 1564-1574.	8.9	184
226	On the origins of cells: a hypothesis for the evolutionary transitions from abiotic geochemistry to chemoautotrophic prokaryotes, and from prokaryotes to nucleated cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2003, 358, 59-85.	4.0	662
227	Gene transfer from organelles to the nucleus: Frequent and in big chunks. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8612-8614.	7.1	199
228	Secondary loss of chloroplasts in trypanosomes. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 765-767.	7.1	62
229	Acceleration of genomic evolution caused by enhanced mutation rate in endocellular symbionts. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12944-12948.	7.1	151
230	Endosymbiotic Gene Transfer. , 2002, , 351-XII.		5
231	Evolutionary analysis of Arabidopsis, cyanobacterial, and chloroplast genomes reveals plastid phylogeny and thousands of cyanobacterial genes in the nucleus. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12246-12251.	7.1	1,074
232	Mitochondria as we don't know them. Trends in Biochemical Sciences, 2002, 27, 564-572.	7.5	338
233	Evolution of the enzymes of the citric acid cycle and the glyoxylate cycle of higher plants. FEBS Journal, 2002, 269, 868-883.	0.2	135
234	Genetics and geography of wild cereal domestication in the near east. Nature Reviews Genetics, 2002, 3, 429-441.	16.3	607

#	Article	IF	Citations
235	Speciation and Species Separation inHordeumL. (Poaceae) Resolved by Discontinuous Molecular Markers. Plant Biology, 2002, 4, 567-575.	3.8	51
236	Paraphyly of bryophytes and close relationship of hornworts and vascular plants inferred from chloroplast rDNA spacers sequence analysis. Arctoa, 2002, 11, 31-43.	0.2	23
237	Purification and cloning of chloroplast 6-phosphogluconate dehydrogenase from spinach. FEBS Journal, 2001, 268, 2678-2686.	0.2	58
238	Does endo-symbiosis explain the origin of the nucleus?. Nature Cell Biology, 2001, 3, E173-E173.	10.3	16
239	How many genes in Arabidopsis come from cyanobacteria? An estimate from 386 protein phylogenies. Trends in Genetics, 2001, 17, 113-120.	6.7	117
240	How do mitochondrial genes get into the nucleus?. Trends in Genetics, 2001, 17, 383-387.	6.7	100
241	An Overview of Endosymbiotic Models for the Origins of Eukaryotes, Their ATP-Producing Organelles (Mitochondria and Hydrogenosomes), and Their Heterotrophic Lifestyle. Biological Chemistry, 2001, 382, 1521-39.	2.5	184
242	Pyruvate:NADP Oxidoreductase from the Mitochondrion of Euglena gracilis and from the Apicomplexan Cryptosporidium parvum: A Biochemical Relic Linking Pyruvate Metabolism in Mitochondriate and Amitochondriate Protists. Molecular Biology and Evolution, 2001, 18, 710-720.	8.9	121
243	Compartment-Specific Isoforms of TPI and GAPDH are Imported into Diatom Mitochondria as a Fusion Protein: Evidence in Favor of a Mitochondrial Origin of the Eukaryotic Glycolytic Pathway. Molecular Biology and Evolution, 2000, 17, 213-223.	8.9	126
244	Evidence for Nucleomorph to Host Nucleus Gene Transfer: Light-Harvesting Complex Proteins from Cryptomonads and Chlorarachniophytes. Protist, 2000, 151, 239-252.	1.5	64
245	A meeting at the gene. EMBO Reports, 2000, 1, 208-210.	4.5	20
246	Plastid Genome Phylogeny and a Model of Amino Acid Substitution for Proteins Encoded by Chloroplast DNA. Journal of Molecular Evolution, 2000, 50, 348-358.	1.8	204
247	Enolase from Trypanosoma brucei, from the Amitochondriate Protist Mastigamoeba balamuthi, and from the Chloroplast and Cytosol of Euglena gracilis: Pieces in the Evolutionary Puzzle of the Eukaryotic Glycolytic Pathway. Molecular Biology and Evolution, 2000, 17, 989-1000.	8.9	65
248	Isoprenoid biosynthesis: The evolution of two ancient and distinct pathways across genomes. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 13172-13177.	7.1	720
249	Base J originally found in Kinetoplastida is also a minor constituent of nuclear DNA of Euglena gracilis. Nucleic Acids Research, 2000, 28, 3017-3021.	14.5	65
250	Origins of hydrogenosomes and mitochondria. Current Opinion in Microbiology, 2000, 3, 481-486.	5.1	67
251	EVOLUTIONARY BIOLOGY:A Powerhouse Divided. Science, 2000, 287, 1219-1219.	12.6	13
252	The Calvin Cycle and Its Regulation. Advances in Photosynthesis and Respiration, 2000, , 9-51.	1.0	33

#	Article	IF	Citations
253	Primitive anaerobic protozoa: the wrong host for mitochondria and hydrogenosomes?. Microbiology (United Kingdom), 2000, 146, 1021-1022.	1.8	6
254	Annotated English translation of Mereschkowsky's 1905 paper â€˜Ãœber Natur und Ursprung der Chromatophoren im Pflanzenreicheâ€™. European Journal of Phycology, 1999, 34, 287-295.	2.0	14
255	Annotated English translation of Mereschkowsky's 1905 paper â€˜Ãœber Natur und Ursprung der Chromatophoren imPflanzenreicheâ€™. European Journal of Phycology, 1999, 34, 287-295.	2.0	151
256	CA2+ BINDING PROTEIN CALRETICULIN IN CHLAMYDOMONAS REINHARDTII (CHLOROPHYTA): BIOCHEMICAL CHARACTERIZATION, DIFFERENTIAL EXPRESSION DURING SEXUAL REPRODUCTION, AND PHYLOGENETIC ANALYSIS. Journal of Phycology, 1999, 35, 1224-1232.	2.3	4
257	A briefly argued case that mitochondria and plastids are descendants of endosymbionts, but that the nuclear compartment is not. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 1387-1395.	2.6	65
258	Molecular Data from the Chloroplast rpoC1 Gene Suggest a Deep and Distinct Dichotomy of Contemporary Spermatophytes into Two Monophyla: Gymnosperms (Including Gnetales) and Angiosperms. Journal of Molecular Evolution, 1999, 49, 310-315.	1.8	46
259	Why have organelles retained genomes?. Trends in Genetics, 1999, 15, 364-370.	6.7	221
260	Mosaic bacterial chromosomes: a challenge en route to a tree of genomes. BioEssays, 1999, 21, 99-104.	2.5	202
261	The genome of Rickettsia prowazekii and some thoughts on the origin of mitochondria and hydrogenosomes. BioEssays, 1999, 21, 377-381.	2.5	80
262	Chloroplast class I and class II aldolases are bifunctional for fructose-1,6-biphosphate and sedoheptulose-1,7-biphosphate cleavage in the Calvin cycle. FEBS Letters, 1999, 447, 200-202.	2.8	64
263	Gnetum and the Angiosperms: Molecular Evidence that Their Shared Morphological Characters Are Convergent, Rather than Homologous. Molecular Biology and Evolution, 1999, 16, 1006-1009.	8.9	54
264	Mosaic bacterial chromosomes: a challenge en route to a tree of genomes. BioEssays, 1999, 21, 99-104.	2.5	146
265	Distribution and Nomenclature of Protein-coding Genes in 12 Sequenced Chloroplast Genomes. Plant Molecular Biology Reporter, 1998, 16, 243-255.	1.8	59
266	Gene transfer to the nucleus and the evolution of chloroplasts. Nature, 1998, 393, 162-165.	27.8	717
267	The hydrogen hypothesis for the first eukaryote. Nature, 1998, 392, 37-41.	27.8	1,133
268	A hydrogen-producing mitochondrion. Nature, 1998, 396, 517-519.	27.8	55
269	Functional Conservation of Calreticulin in Euglena gracilis. Journal of Eukaryotic Microbiology, 1998, 45, 307-313.	1.7	24
270	Gene structure, expression in Escherichia coli and biochemical properties of the NAD+-dependent glyceraldehyde-3-phosphate dehydrogenase from Pinus sylvestris chloroplasts. Gene, 1998, 209, 167-174.	2.2	19

#	Article	IF	Citations
271	Eubacterial origin of nuclear genes for chloroplast and cytosolic glucose-6-phosphate isomerase from spinach: sampling eubacterial gene diversity in eukaryotic chromosomes through symbiosis. Gene, 1998, 214, 205-213.	2.2	35
272	Sequences of rDNA internal transcribed spacers from the chloroplast DNA of 26 bryophytes: properties and phylogenetic utility. FEBS Letters, 1998, 422, 47-51.	2.8	25
273	Gene Transfer from Organelles to the Nucleus: How Much, What Happens, and Why?1. Plant Physiology, 1998, 118, 9-17.	4.8	643
274	Floral homeotic genes were recruited from homologous MADS-box genes preexisting in the common ancestor of ferns and seed plants. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 2415-2420.	7.1	236
275	Multiple recruitment of class-I aldolase to chloroplasts and eubacterial origin of eukaryotic class-II aldolases revealed by cDNAs from Euglena gracilis. Current Genetics, 1997, 31, 430-438.	1.7	60
276	The evolution of the Calvin cycle from prokaryotic to eukaryotic chromosomes: a case study of functional redundancy in ancient pathways through endosymbiosis. Current Genetics, 1997, 32, 1-18.	1.7	246
277	Evolutionary analysis of 58 proteins encoded in six completely sequenced chloroplast genomes: Revised molecular estimates of two seed plant divergence times. Plant Systematics and Evolution, 1997, 206, 337-351.	0.9	80
278	Homospermidine synthase of Rhodopseudomonas viridis: Substrate specificity and effects of the heterologously expressed enzyme on polyamine metabolism of Escherichia coli.. Journal of General and Applied Microbiology, 1996, 42, 411-419.	0.7	17
279	Anthranilate Synthase from Ruta graveolens (Duplicated ASÎ±- Genes Encode Tryptophan-Sensitive and) Tj ETQq1 1 0.784314 rgBT /Ov 1996, 111, 507-514.	4.8	75
280	Island colonization and evolution of the insular woody habit in Echium L. (Boraginaceae).. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 11740-11745.	7.1	350
281	Purification, Molecular Cloning and Expression in Escherichia coli of Homospermidine Synthase from Rhodopseudomonas viridis. FEBS Journal, 1996, 240, 373-379.	0.2	38
282	Is something wrong with the tree of life?. BioEssays, 1996, 18, 523-527.	2.5	42
283	Higher-plant chloroplast and cytosolic 3-phosphoglycerate kinases: a case of endosymbiotic gene replacement. Plant Molecular Biology, 1996, 30, 65-75.	3.9	65
284	Microsequecing and cDNA cloning of the Calvin cycle/OPPP enzyme ribose-5-phosphate isomerase (EC) Tj ETQq0 0 0 rgBT /Overlock 10	3.9	15
285	Molecular characterization of transketolase (EC 2.2.1.1) active in the Calvin cycle of spinach chloroplasts. Plant Molecular Biology, 1996, 32, 475-484.	3.9	41
286	Higher-plant chloroplast and cytosolic fructose-1,6-bisphophosphatase isoenzymes: origins via duplication rather than prokaryote-eukaryote divergence. Plant Molecular Biology, 1996, 32, 485-491.	3.9	71
287	Functional studies of chloroplast glyceraldehyde-3-phosphate dehydrogenase subunits A and B expressed in Escherichia coli: formation of highly active A4 and B4 homotetramers and evidence that aggregation of the B4 complex is mediated by the B subunit carboxy terminus. Plant Molecular Biology, 1996, 32, 505-513.	3.9	75
288	Noncoding sequences from the slowly evolving chloroplast inverted repeat in addition to rbcL data do not support gnetalean affinities of angiosperms. Molecular Biology and Evolution, 1996, 13, 383-396.	8.9	141

#	Article	IF	Citations
289	A nuclear gene of eubacterial origin in Euglena gracilis reflects cryptic endosymbioses during protist evolution.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 9122-9126.	7.1	173
290	Purification and cDNA cloning of anthranilate synthase from Ruta graveolens: modes of expression and properties of native and recombinant enzymes. Plant Journal, 1995, 7, 491-501.	5.7	78
291	Cloning of the amphibolic Calvin cycle/OPPP enzyme d-ribulose-5-phosphate 3-epimerase (EC 5.1.3.1) from spinach chloroplasts: functional and evolutionary aspects. Plant Molecular Biology, 1995, 29, 1279-1291.	3.9	31
292	Intron-dependent transient expression of the maize GapA1 gene. Plant Molecular Biology, 1995, 28, 667-676.	3.9	43
293	Enzymatic Evidence for a Complete Oxidative Pentose Phosphate Pathway in Chloroplasts and an Incomplete Pathway in the Cytosol of Spinach Leaves. Plant Physiology, 1995, 108, 609-614.	4.8	128
294	An Open Reading Frame (ycf11) is Evolutionary Conserved from Cyanobacteria to the Plastid DNAs of Archegoniates and Gymnosperms, is Modified in the Plastid DNAs of Dicots, and is not Plastome Encoded in Monocots. Journal of Plant Physiology, 1995, 146, 258-262.	3.5	4
295	cDNA cloning of a Sec61 homologue from the cryptomonad alga Pyrenomonas salina. Current Genetics, 1994, 26, 410-414.	1.7	10
296	The evolutionary origin of red algae as deduced from the nuclear genes encoding cytosolic and chloroplast glyceraldehyde-3-phosphate dehydrogenases from Chondrus crispus. Journal of Molecular Evolution, 1994, 38, 319-327.	1.8	49
297	Nucleotide distribution in gymnosperm nuclear sequences suggests a model for GC-content change in land-plant nuclear genomes. Journal of Molecular Evolution, 1994, 39, 34-46.	1.8	40
298	The smallest known eukaryotic genomes encode a protein gene: towards an understanding of nucleomorph functions. Molecular Genetics and Genomics, 1994, 243, 600-604.	2.4	23
299	Chloroplast and cytosolic triosephosphate isomerases from spinach: purification, microsequencing and cDNA cloning of the chloroplast enzyme. Plant Molecular Biology, 1994, 26, 1961-1973.	3.9	39
300	Molecular characterization of a novel, nuclear-encoded, NAD+-dependent glyceraldehyde-3-phosphate dehydrogenase in plastids of the gymnosperm Pinus sylvestris L.. Plant Molecular Biology, 1994, 26, 1155-1166.	3.9	34
301	Chloroplast DNA restriction site polymorphism inGenisteae (Leguminosae) suggests a common origin for European and American lupines. Plant Systematics and Evolution, 1994, 193, 95-106.	0.9	20
302	Five identical intron positions in ancient duplicated genes of eubacterial origin. Nature, 1994, 367, 387-389.	27.8	117
303	Origin of intronsâ€“early or late?. Nature, 1994, 369, 527-528.	27.8	15
304	A method for isolation of cDNA-quality mRNA from immature seeds of a gymnosperm rich in polyphenolics. Plant Molecular Biology, 1993, 22, 555-556.	3.9	21
305	Secondary structure and phylogeny of the chloroplast 23S rRNA gene from the brown alga Pylaiella littoralis. Plant Molecular Biology, 1993, 21, 779-787.	3.9	4
306	Mosses do express conventional, distantly B-type-related phytochromes phytochrome ofPhyscomitrella patens(Hedw.). FEBS Letters, 1993, 334, 95-100.	2.8	30

#	Article	IF	Citations
307	Characterization of a Multigene Family Encoding an Exopolygalacturonase in Maize. Journal of Molecular Biology, 1993, 229, 797-801.	4.2	24
308	Molecular phylogeny of theatpB andatpE genes of the brown algaPylaiella littoralis. European Journal of Phycology, 1993, 28, 111-113.	2.0	5
309	Evidence for a chimeric nature of nuclear genomes: eubacterial origin of eukaryotic glyceraldehyde-3-phosphate dehydrogenase genes.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 8692-8696.	7.1	169
310	Molecular phylogenies of plastid origins and algal evolution. Journal of Molecular Evolution, 1992, 35, 385-404.	1.8	96
311	Molecular analysis of the Ubiquitous (Uq) transposable element system of Zea mays. Molecular Genetics and Genomics, 1991, 230, 201-208.	2.4	23
312	Evolution of the Rubisco operon from prokaryotes to algae: Structure and analysis of the rbcS gene of the brown alga Pylaiella littoralis. Plant Molecular Biology, 1991, 17, 853-863.	3.9	49
313	Hypothesis for the evolutionary origin of the chloroplast ribosomal protein L21 of spinach. Current Genetics, 1990, 18, 553-556.	1.7	53
314	Strong functional GC pressure in a light-regulated maize gene encoding subunit GAPA of chloroplast glyceraldehyde-3-phosphate dehydrogenase: Implications for the evolution of GAPA pseudogenes. Journal of Molecular Evolution, 1989, 29, 412-421.	1.8	35
315	Molecular evidence for pre-Cretaceous angiosperm origins. Nature, 1989, 339, 46-48.	27.8	211
316	Angiosperm origins. Nature, 1989, 342, 132-132.	27.8	12
317	Structure, evolution and anaerobic regulation of a nuclear gene encoding cytosolic glyceraldehyde-3-phosphate dehydrogenase from maize. Journal of Molecular Biology, 1989, 208, 551-565.	4.2	89
318	Intron conservation across the prokaryote-eukaryote boundary: structure of the nuclear gene for chloroplast glyceraldehyde-3-phosphate dehydrogenase from maize.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 2672-2676.	7.1	81
319	Endosymbiotic origin and codon bias of the nuclear gene for chloroplast glyceraldehyde-3-phosphate dehydrogenase from maize. Journal of Molecular Evolution, 1987, 26, 320-328.	1.8	121
320	Prokaryotic features of a nucleus-encoded enzyme. cDNA sequences for chloroplast and cytosolic glyceraldehyde-3-phosphate dehydrogenases from mustard (Sinapis alba). FEBS Journal, 1986, 159, 323-331.	0.2	133
321	9 Early life. , 0, , .		1