William F Martin

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Endosymbiotic gene transfer: organelle genomes forge eukaryotic chromosomes. Nature Reviews Genetics, 2004, 5, 123-135.	16.3	1,297
2	The hydrogen hypothesis for the first eukaryote. Nature, 1998, 392, 37-41.	27.8	1,133
3	Hydrothermal vents and the origin of life. Nature Reviews Microbiology, 2008, 6, 805-814.	28.6	1,111
4	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
5	The energetics of genome complexity. Nature, 2010, 467, 929-934.	27.8	964
6	Eukaryotic evolution, changes and challenges. Nature, 2006, 440, 623-630.	27.8	805
7	The physiology and habitat of the last universal common ancestor. Nature Microbiology, 2016, 1, 16116.	13.3	739
8	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
9	Gene transfer to the nucleus and the evolution of chloroplasts. Nature, 1998, 393, 162-165.	27.8	717
10	Phylogenomics of the Reproductive Parasite Wolbachia pipientis wMel: A Streamlined Genome Overrun by Mobile Genetic Elements. PLoS Biology, 2004, 2, e69.	5.6	713
11	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
12	Biochemistry and Evolution of Anaerobic Energy Metabolism in Eukaryotes. Microbiology and Molecular Biology Reviews, 2012, 76, 444-495.	6.6	656
13	Gene Transfer from Organelles to the Nucleus: How Much, What Happens, and Why?1. Plant Physiology, 1998, 118, 9-17.	4.8	643
14	Reading the entrails of chickens: molecular timescales of evolution and the illusion of precision. Trends in Genetics, 2004, 20, 80-86.	6.7	618
15	Genetics and geography of wild cereal domestication in the near east. Nature Reviews Genetics, 2002, 3, 429-441.	16.3	607
16	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
17	Molecular Poltergeists: Mitochondrial DNA Copies (numts) in Sequenced Nuclear Genomes. PLoS Genetics, 2010, 6, e1000834.	3.5	522
18	Brain energy rescue: an emerging therapeutic concept for neurodegenerative disorders of ageing. Nature Reviews Drug Discovery, 2020, 19, 609-633.	46.4	441

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19	Introns and the origin of nucleusâ€“cytosol compartmentalization. Nature, 2006, 440, 41-45.	27.8	438
20	Serpentinization as a source of energy at the origin of life. Geobiology, 2010, 8, 355-371.	2.4	411
21	Endosymbiotic theories for eukaryote origin. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20140330.	4.0	390
22	The rocky roots of the acetyl-CoA pathway. Trends in Biochemical Sciences, 2004, 29, 358-363.	7.5	373
23	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
24	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
25	Mitochondria as we don't know them. Trends in Biochemical Sciences, 2002, 27, 564-572.	7.5	338
26	Endosymbiotic theory for organelle origins. Current Opinion in Microbiology, 2014, 22, 38-48.	5.1	333
27	On the origin of genomes and cells within inorganic compartments. Trends in Genetics, 2005, 21, 647-654.	6.7	331
28	The tree of one percent. Genome Biology, 2006, 7, 118.	9.6	313
29	The Origin of Membrane Bioenergetics. Cell, 2012, 151, 1406-1416.	28.9	313
30	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
31	Essence of mitochondria. Nature, 2003, 426, 127-128.	27.8	293
32	How did LUCA make a living? Chemiosmosis in the origin of life. BioEssays, 2010, 32, 271-280.	2.5	292
33	Endosymbiotic origin and differential loss of eukaryotic genes. Nature, 2015, 524, 427-432.	27.8	251
34	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
35	Origins of major archaeal clades correspond to gene acquisitions from bacteria. Nature, 2015, 517, 77-80.	27.8	238
36	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

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37	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
38	Why have organelles retained genomes?. Trends in Genetics, 1999, 15, 364-370.	6.7	221
39	Directed networks reveal genomic barriers and DNA repair bypasses to lateral gene transfer among prokaryotes. Genome Research, 2011, 21, 599-609.	5.5	215
40	Molecular evidence for pre-Cretaceous angiosperm origins. Nature, 1989, 339, 46-48.	27.8	211
41	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
42	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
43	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
44	Mosaic bacterial chromosomes: a challenge en route to a tree of genomes. BioEssays, 1999, 21, 99-104.	2.5	202
45	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
46	Early bioenergetic evolution. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130088.	4.0	199
47	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
48	Independent Wheat B and G Genome Origins in Outcrossing Aegilops Progenitor Haplotypes. Molecular Biology and Evolution, 2007, 24, 217-227.	8.9	194
49	Prokaryotic evolution and the tree of life are two different things. Biology Direct, 2009, 4, 34.	4.6	188
50	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
51	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
52	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
53	Evolutionary origins of metabolic compartmentalization in eukaryotes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 847-855.	4.0	174
54	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

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55	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
56	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
57	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
58	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
59	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
60	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
61	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
62	Mosaic bacterial chromosomes: a challenge en route to a tree of genomes. BioEssays, 1999, 21, 99-104.	2.5	146
63	Mutational Decay and Age of Chloroplast and Mitochondrial Genomes Transferred Recently to Angiosperm Nuclear Chromosomes. Plant Physiology, 2005, 138, 1723-1733.	4.8	144
64	Out of thin air. Nature, 2007, 445, 610-612.	27.8	144
65	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
66	A hydrogen-dependent geochemical analogue of primordial carbon and energy metabolism. Nature Ecology and Evolution, 2020, 4, 534-542.	7.8	140
67	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
68	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
69	Bacterial Vesicle Secretion and the Evolutionary Origin of the Eukaryotic Endomembrane System. Trends in Microbiology, 2016, 24, 525-534.	7.7	133
70	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
71	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
72	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

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73	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
74	Energy at life's origin. Science, 2014, 344, 1092-1093.	12.6	121
75	The last universal common ancestor between ancient Earth chemistry and the onset of genetics. PLoS Genetics, 2018, 14, e1007518.	3.5	120
76	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
77	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
78	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
79	Five identical intron positions in ancient duplicated genes of eubacterial origin. Nature, 1994, 367, 387-389.	27.8	117
80	How many genes in Arabidopsis come from cyanobacteria? An estimate from 386 protein phylogenies. Trends in Genetics, 2001, 17, 113-120.	6.7	117
81	A physiological perspective on the origin and evolution of photosynthesis. FEMS Microbiology Reviews, 2018, 42, 205-231.	8.6	115
82	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
83	On the Origin of Heterotrophy. Trends in Microbiology, 2016, 24, 12-25.	7.7	112
84	Early Cell Evolution, Eukaryotes, Anoxia, Sulfide, Oxygen, Fungi First (?), and a Tree of Genomes Revisited. IUBMB Life, 2003, 55, 193-204.	3.4	108
85	Hydrogen, metals, bifurcating electrons, and proton gradients: The early evolution of biological energy conservation. FEBS Letters, 2012, 586, 485-493.	2.8	108
86	Lokiarchaeon is hydrogen dependent. Nature Microbiology, 2016, 1, 16034.	13.3	107
87	Too Much Eukaryote LGT. BioEssays, 2017, 39, 1700115.	2.5	106
88	Chloroplast genome phylogenetics: why we need independent approaches to plant molecular evolution. Trends in Plant Science, 2005, 10, 203-209.	8.8	102
89	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
90	How do mitochondrial genes get into the nucleus?. Trends in Genetics, 2001, 17, 383-387.	6.7	100

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91	AstRoMap European Astrobiology Roadmap. Astrobiology, 2016, 16, 201-243.	3.0	99
92	Anaerobic energy metabolism in unicellular photosynthetic eukaryotes. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 210-223.	1.0	97
93	Molecular phylogenies of plastid origins and algal evolution. Journal of Molecular Evolution, 1992, 35, 385-404.	1.8	96
94	Acetate formation in the energy metabolism of parasitic helminths and protists. International Journal for Parasitology, 2010, 40, 387-397.	3.1	96
95	Autocatalytic chemical networks at the origin of metabolism. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20192377.	2.6	90
96	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
97	The difference between organelles and endosymbionts. Current Biology, 2006, 16, R1016-R1017.	3.9	86
98	The origin of mitochondria in light of a fluid prokaryotic chromosome model. Biology Letters, 2007, 3, 180-184.	2.3	86
99	The Physiology of Phagocytosis in the Context of Mitochondrial Origin. Microbiology and Molecular Biology Reviews, 2017, 81, .	6.6	84
100	Protein Import and the Origin of Red Complex Plastids. Current Biology, 2015, 25, R515-R521.	3.9	83
101	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
102	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
103	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
104	The genome of Rickettsia prowazekii and some thoughts on the origin of mitochondria and hydrogenosomes. BioEssays, 1999, 21, 377-381.	2.5	80
105	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
106	Genome Networks Root the Tree of Life between Prokaryotic Domains. Genome Biology and Evolution, 2010, 2, 379-392.	2.5	80
107	Planctomycetes and eukaryotes: A case of analogy not homology. BioEssays, 2011, 33, 810-817.	2.5	79
108	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

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109	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
110	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
111	Massively Convergent Evolution for Ribosomal Protein Gene Content in Plastid and Mitochondrial Genomes. Genome Biology and Evolution, 2013, 5, 2318-2329.	2.5	78
112	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
113	Early Microbial Evolution: The Age of Anaerobes. Cold Spring Harbor Perspectives in Biology, 2016, 8, a018127.	5.5	78
114	Archaebacteria (Archaea) and the origin of the eukaryotic nucleus. Current Opinion in Microbiology, 2005, 8, 630-637.	5.1	77
115	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
116	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
117	Anthranilate Synthase from Ruta graveolens (Duplicated ASÎ±- Genes Encode Tryptophan-Sensitive and) Tj ETQq1 1 0.784314 rgBT /Ove 1996, 111, 507-514.	4.8	75
118	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
119	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
120	Phylogenetic analyses with systematic taxon sampling show that mitochondria branch within Alphaproteobacteria. Nature Ecology and Evolution, 2020, 4, 1213-1219.	7.8	75
121	Sulfideâ€ƒ:â€ƒquinone oxidoreductase (SQR) from the lugworm <i>Arenicolaâ€ƒmarina</i> shows cyanideâ€•and thioredoxinâ€dependent activity. FEBS Journal, 2008, 275, 1131-1139.	4.7	74
122	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
123	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
124	The Evolutionary Root of Flowering Plants. Systematic Biology, 2013, 62, 50-61.	5.6	71
125	Automated glycopeptide analysis--review of current state and future directions. Briefings in Bioinformatics, 2013, 14, 361-374.	6.5	71
126	Interspecific evolution: microbial symbiosis, endosymbiosis and gene transfer. Environmental Microbiology, 2003, 5, 641-649.	3.8	68

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127	Is ftsH the Key to Plastid Longevity in Sacoglossan Slugs?. Genome Biology and Evolution, 2013, 5, 2540-2548.	2.5	68
128	Autocatalytic sets in E. coli metabolism. Journal of Systems Chemistry, 2015, 6, 4.	1.7	68
129	Origins of hydrogenosomes and mitochondria. Current Opinion in Microbiology, 2000, 3, 481-486.	5.1	67
130	Older Than Genes: The Acetyl CoA Pathway and Origins. Frontiers in Microbiology, 2020, 11, 817.	3.5	66
131	Higher-plant chloroplast and cytosolic 3-phosphoglycerate kinases: a case of endosymbiotic gene replacement. Plant Molecular Biology, 1996, 30, 65-75.	3.9	65
132	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
133	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
134	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
135	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
136	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
137	Evidence for Nucleomorph to Host Nucleus Gene Transfer: Light-Harvesting Complex Proteins from Cryptomonads and Chlorarachniophytes. Protist, 2000, 151, 239-252.	1.5	64
138	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
139	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
140	Serpentinization: Connecting Geochemistry, Ancient Metabolism and Industrial Hydrogenation. Life, 2018, 8, 41.	2.4	61
141	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
142	Distribution and Nomenclature of Protein-coding Genes in 12 Sequenced Chloroplast Genomes. Plant Molecular Biology Reporter, 1998, 16, 243-255.	1.8	59
143	The tree of life: introduction to an evolutionary debate. Biology and Philosophy, 2010, 25, 441-453.	1.4	59
144	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

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145	Purification and cloning of chloroplast 6-phosphogluconate dehydrogenase from spinach. FEBS Journal, 2001, 268, 2678-2686.	0.2	58
146	Variability of Wax Ester Fermentation in Natural and Bleached <i>Euglena gracilis</i> Strains in Response to Oxygen and the Elongase Inhibitor Flufenacet. Journal of Eukaryotic Microbiology, 2010, 57, 63-69.	1.7	58
147	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
148	Early evolution without a tree of life. Biology Direct, 2011, 6, 36.	4.6	57
149	A hydrogen-producing mitochondrion. Nature, 1998, 396, 517-519.	27.8	55
150	Acetate:Succinate CoA-transferase in the Hydrogenosomes of Trichomonas vaginalis. Journal of Biological Chemistry, 2008, 283, 1411-1418.	3.4	55
151	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
152	Concatenated alignments and the case of the disappearing tree. BMC Evolutionary Biology, 2014, 14, 266.	3.2	54
153	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
154	Hypothesis for the evolutionary origin of the chloroplast ribosomal protein L21 of spinach. Current Genetics, 1990, 18, 553-556.	1.7	53
155	Speciation and Species Separation inHordeumL. (Poaceae) Resolved by Discontinuous Molecular Markers. Plant Biology, 2002, 4, 567-575.	3.8	51
156	Early evolution comes full circle. Nature, 2004, 431, 134-137.	27.8	51
157	Conservation of Transit Peptide-Independent Protein Import into the Mitochondrial and Hydrogenosomal Matrix. Genome Biology and Evolution, 2015, 7, 2716-2726.	2.5	51
158	One step beyond a ribosome: The ancient anaerobic core. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1027-1038.	1.0	51
159	Bifunctional aldehyde/alcohol dehydrogenase (ADHE) in chlorophyte algal mitochondria. Plant Molecular Biology, 2003, 53, 175-188.	3.9	50
160	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
161	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
162	Structure and Properties of an Engineered Transketolase from Maize. Plant Physiology, 2003, 132, 1941-1949.	4.8	49

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163	Native metals, electron bifurcation, and CO2 reduction in early biochemical evolution. Current Opinion in Microbiology, 2018, 43, 77-83.	5.1	48
164	Protein Import into Hydrogenosomes of<i>Trichomonas vaginalis</i>Involves both N-Terminal and Internal Targeting Signals: a Case Study of Thioredoxin Reductases. Eukaryotic Cell, 2008, 7, 1750-1757.	3.4	47
165	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
166	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
167	Molecular evolution: Lateral gene transfer and other possibilities. Heredity, 2005, 94, 565-566.	2.6	44
168	Intron-dependent transient expression of the maize GapA1 gene. Plant Molecular Biology, 1995, 28, 667-676.	3.9	43
169	Genome history in the symbiotic hybrid Euglena gracilis. Gene, 2007, 402, 35-39.	2.2	43
170	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
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