

Gertraud Burger

List of Publications by Year in descending order

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81
papers

10,742
citations

66234

42
h-index

69108

77
g-index

83
all docs

83
docs citations

83
times ranked

8592
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial Evolution. <i>Science</i> , 1999, 283, 1476-1481.	6.0	1,595
2	An ancestral mitochondrial DNA resembling a eubacterial genome in miniature. <i>Nature</i> , 1997, 387, 493-497.	13.7	658
3	Mitochondrial Genome Evolution and the Origin of Eukaryotes. <i>Annual Review of Genetics</i> , 1999, 33, 351-397.	3.2	603
4	Mitochondrial genomes: anything goes. <i>Trends in Genetics</i> , 2003, 19, 709-716.	2.9	555
5	The tree of eukaryotes. <i>Trends in Ecology and Evolution</i> , 2005, 20, 670-676.	4.2	549
6	Monophyly of Primary Photosynthetic Eukaryotes: Green Plants, Red Algae, and Glaucophytes. <i>Current Biology</i> , 2005, 15, 1325-1330.	1.8	502
7	<i>Cyanophora paradoxa</i> Genome Elucidates Origin of Photosynthesis in Algae and Plants. <i>Science</i> , 2012, 335, 843-847.	6.0	371
8	The origin and early evolution of mitochondria. <i>Genome Biology</i> , 2001, 2, reviews1018.1.	13.9	353
9	Genomic Analysis of the Basal Lineage Fungus <i>Rhizopus oryzae</i> Reveals a Whole-Genome Duplication. <i>PLoS Genetics</i> , 2009, 5, e1000549.	1.5	332
10	Mitochondrial introns: a critical view. <i>Trends in Genetics</i> , 2007, 23, 119-125.	2.9	313
11	Mitochondria of Protists. <i>Annual Review of Genetics</i> , 2004, 38, 477-524.	3.2	295
12	A Phylogenomic Investigation into the Origin of Metazoa. <i>Molecular Biology and Evolution</i> , 2008, 25, 664-672.	3.5	259
13	Phylogenomic Evidence for Separate Acquisition of Plastids in Cryptophytes, Haptophytes, and Stramenopiles. <i>Molecular Biology and Evolution</i> , 2010, 27, 1698-1709.	3.5	248
14	Strikingly Bacteria-Like and Gene-Rich Mitochondrial Genomes throughout Jakobid Protists. <i>Genome Biology and Evolution</i> , 2013, 5, 418-438.	1.1	222
15	Unique mitochondrial genome architecture in unicellular relatives of animals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 892-897.	3.3	209
16	The origins of multicellularity: a multi-taxon genome initiative. <i>Trends in Genetics</i> , 2007, 23, 113-118.	2.9	201
17	AutoFACT: an automatic functional annotation and classification tool. <i>BMC Bioinformatics</i> , 2005, 6, 151.	1.2	189
18	The Mitochondrial DNA of the Amoeboid Protozoon, <i>Acanthamoeba castellanii</i> : Complete Sequence, Gene Content and Genome Organization. <i>Journal of Molecular Biology</i> , 1995, 245, 522-537.	2.0	180

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19	Complete Sequence of the Mitochondrial DNA of the Red Alga <i>Porphyra purpurea</i> : Cyanobacterial Introns and Shared Ancestry of Red and Green Algae. <i>Plant Cell</i> , 1999, 11, 1675-1694.	3.1	178
20	Expansion of Signal Transduction Pathways in Fungi by Extensive Genome Duplication. <i>Current Biology</i> , 2016, 26, 1577-1584.	1.8	175
21	Complete Sequence of the Mitochondrial DNA of the Chlorophyte Alga <i>Prototheca wickerhamii</i> . <i>Journal of Molecular Biology</i> , 1994, 237, 75-86.	2.0	173
22	Toward Resolving the Eukaryotic Tree: The Phylogenetic Positions of Jakobids and Cercozoans. <i>Current Biology</i> , 2007, 17, 1420-1425.	1.8	170
23	The Complete Mitochondrial DNA Sequences of <i>Nephroselmis olivacea</i> and <i>Pedinomonas minor</i> : Two Radically Different Evolutionary Patterns within Green Algae. <i>Plant Cell</i> , 1999, 11, 1717-1729.	3.1	154
24	Widespread occurrence of organelle genome-encoded 5S rRNAs including permuted molecules. <i>Nucleic Acids Research</i> , 2014, 42, 13764-13777.	6.5	129
25	Mitochondrial DNA as a Genomic Jigsaw Puzzle. <i>Science</i> , 2007, 318, 415-415.	6.0	110
26	Complete sequence of the mitochondrial genome of <i>Tetrahymena pyriformis</i> and comparison with <i>Paramecium aurelia</i> mitochondrial DNA. <i>Journal of Molecular Biology</i> , 2000, 297, 365-380.	2.0	106
27	The Complete Mitochondrial DNA Sequence of <i>Scenedesmus obliquus</i> Reflects an Intermediate Stage in the Evolution of the Green Algal Mitochondrial Genome. <i>Genome Research</i> , 2000, 10, 819-831.	2.4	98
28	Genetic tool development in marine protists: emerging model organisms for experimental cell biology. <i>Nature Methods</i> , 2020, 17, 481-494.	9.0	97
29	Unique Mitochondrial Genome Structure in Diplonemids, the Sister Group of Kinetoplastids. <i>Eukaryotic Cell</i> , 2005, 4, 1137-1146.	3.4	94
30	Sequencing complete mitochondrial and plastid genomes. <i>Nature Protocols</i> , 2007, 2, 603-614.	5.5	84
31	TBestDB: a taxonomically broad database of expressed sequence tags (ESTs). <i>Nucleic Acids Research</i> , 2007, 35, D445-D451.	6.5	81
32	A Comparative Genomics Approach to the Evolution of Eukaryotes and their Mitochondria. <i>Journal of Eukaryotic Microbiology</i> , 1999, 46, 320-326.	0.8	79
33	Group I-intron trans-splicing and mRNA editing in the mitochondria of placozoan animals. <i>Trends in Genetics</i> , 2009, 25, 381-386.	2.9	79
34	A novel motif for identifying Rps3 homologs in fungal mitochondrial genomes. <i>Trends in Biochemical Sciences</i> , 2000, 25, 363-365.	3.7	76
35	GOBASE: an organelle genome database. <i>Nucleic Acids Research</i> , 2009, 37, D946-D950.	6.5	74
36	Systematically fragmented genes in a multipartite mitochondrial genome. <i>Nucleic Acids Research</i> , 2011, 39, 979-988.	6.5	72

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37	Purification of mitochondrial and plastid DNA. <i>Nature Protocols</i> , 2007, 2, 652-660.	5.5	58
38	Massive programmed translational jumping in mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 5926-5931.	3.3	58
39	The <i>Rhodomonas salina</i> mitochondrial genome: bacteria-like operons, compact gene arrangement and complex repeat region. <i>Nucleic Acids Research</i> , 2005, 33, 4433-4442.	6.5	50
40	Unusual Mitochondrial Genome Structures throughout the Euglenozoa. <i>Protist</i> , 2007, 158, 385-396.	0.6	50
41	Gene fragmentation: a key to mitochondrial genome evolution in Euglenozoa?. <i>Current Genetics</i> , 2011, 57, 225-232.	0.8	48
42	Parallels in Genome Evolution in Mitochondria and Bacterial Symbionts. <i>IUBMB Life</i> , 2003, 55, 205-212.	1.5	45
43	The draft nuclear genome sequence and predicted mitochondrial proteome of <i>Andalucia godoyi</i> , a protist with the most gene-rich and bacteria-like mitochondrial genome. <i>BMC Biology</i> , 2020, 18, 22.	1.7	43
44	Expression of mitochondrial protein-coding genes in <i>Tetrahymena pyriformis</i> . <i>Journal of Molecular Biology</i> , 2000, 297, 381-393.	2.0	41
45	Earliest Holozoan Expansion of Phosphotyrosine Signaling. <i>Molecular Biology and Evolution</i> , 2014, 31, 517-528.	3.5	41
46	The enigmatic mitochondrial ORF ymf39 codes for ATP synthase chain b. <i>Nucleic Acids Research</i> , 2003, 31, 2353-2360.	6.5	38
47	A rapid, high resolution DNA sequencing gel system. <i>Analytical Biochemistry</i> , 1990, 188, 176-180.	1.1	36
48	Early Eukaryote Evolution Based on Mitochondrial Gene Order Breakpoints. <i>Journal of Computational Biology</i> , 2000, 7, 521-535.	0.8	35
49	Abundant 5S rRNA-Like Transcripts Encoded by the Mitochondrial Genome in Amoebozoa. <i>Eukaryotic Cell</i> , 2010, 9, 762-773.	3.4	34
50	Gene fragmentation and RNA editing without borders: eccentric mitochondrial genomes of diplomonads. <i>Nucleic Acids Research</i> , 2020, 48, 2694-2708.	6.5	31
51	Trans-splicing and RNA editing of LSU rRNA in <i>Diplonema</i> mitochondria. <i>Nucleic Acids Research</i> , 2014, 42, 2660-2672.	6.5	30
52	GOBASE--a database of mitochondrial and chloroplast information. <i>Nucleic Acids Research</i> , 2003, 31, 176-178.	6.5	28
53	Evolutionarily Conserved cox1 Trans-Splicing Without cis-Motifs. <i>Molecular Biology and Evolution</i> , 2011, 28, 2425-2428.	3.5	28
54	Diversity and dispersal of a ubiquitous protein family: acyl-CoA dehydrogenases. <i>Nucleic Acids Research</i> , 2009, 37, 5619-5631.	6.5	26

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55	Unscrambling genetic information at the RNA level. Wiley Interdisciplinary Reviews RNA, 2012, 3, 213-228.	3.2	25
56	Perfection of eccentricity: Mitochondrial genomes of diplomemids. IUBMB Life, 2018, 70, 1197-1206.	1.5	24
57	Distribution and Phylogeny of EFL and EF-1 α in Euglenozoa Suggest Ancestral Co-Occurrence Followed by Differential Loss. PLoS ONE, 2009, 4, e5162.	1.1	24
58	AnaBench: a Web/CORBA-based workbench for biomolecular sequence analysis. BMC Bioinformatics, 2003, 4, 63.	1.2	20
59	Transformation of <i>Diplonema papillatum</i> , the type species of the highly diverse and abundant marine microeukaryotes Diplonemida (Euglenozoa). Environmental Microbiology, 2018, 20, 1030-1040.	1.8	20
60	GOBASE—a database of organelle and bacterial genome information. Nucleic Acids Research, 2006, 34, D697-D699.	6.5	19
61	Programmed translational bypassing elements in mitochondria: structure, mobility, and evolutionary origin. Trends in Genetics, 2015, 31, 187-194.	2.9	19
62	A second eukaryotic group with mitochondrion-encoded tmRNA. RNA Biology, 2013, 10, 1117-1124.	1.5	18
63	Keeping it complicated: Mitochondrial genome plasticity across diplomemids. Scientific Reports, 2017, 7, 14166.	1.6	18
64	Respiratory chain Complex I of unparalleled divergence in diplomemids. Journal of Biological Chemistry, 2018, 293, 16043-16056.	1.6	18
65	Mitochondrial Genomics in Protists, an Approach to Probing Eukaryotic Evolution. Protist, 1998, 149, 313-322.	0.6	17
66	The Complete Mitochondrial DNA Sequences of <i>Nephroselmis olivacea</i> and <i>Pedinomonas minor</i> : Two Radically Different Evolutionary Patterns within Green Algae. Plant Cell, 1999, 11, 1717.	3.1	16
67	Genes in Hiding. Trends in Genetics, 2016, 32, 553-565.	2.9	16
68	Early eukaryote evolution based on mitochondrial gene order breakpoints. , 2000, , .		15
69	Mitochondrial and Eukaryotic Origins. Advances in Botanical Research, 2012, , 1-20.	0.5	14
70	Post-transcriptional mending of gene sequences: Looking under the hood of mitochondrial gene expression in diplomemids. RNA Biology, 2016, 13, 1204-1211.	1.5	14
71	Mitochondrial Genomes of Algae. Advances in Photosynthesis and Respiration, 2012, , 127-157.	1.0	13
72	Structure of the bc1 Complex from <i>Seculamonas ecuadoriensis</i> , a Jakobid Flagellate with an Ancestral Mitochondrial Genome. Molecular Biology and Evolution, 2003, 20, 145-153.	3.5	10

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73	Unusual Mitochondrial Genomes and Genes. , 2012, , 41-77.		9
74	Targeted integration by homologous recombination enables in situ tagging and replacement of genes in the marine microeukaryote <i>Diplonema papillatum</i> . <i>Environmental Microbiology</i> , 2020, 22, 3660-3670.	1.8	9
75	An Unexpectedly Complex Mitoribosome in <i>Andalucia godoyi</i> , a Protist with the Most Bacteria-like Mitochondrial Genome. <i>Molecular Biology and Evolution</i> , 2021, 38, 788-804.	3.5	8
76	Mitochondrial RNA Editing and Processing in Diplonemid Protists. <i>Nucleic Acids and Molecular Biology</i> , 2018, , 145-176.	0.2	5
77	Complete Sequence of the Mitochondrial DNA of the Red Alga <i>Porphyra purpurea</i> : Cyanobacterial Introns and Shared Ancestry of Red and Green Algae. <i>Plant Cell</i> , 1999, 11, 1675.	3.1	4
78	Non-functional genes repaired at the RNA level. <i>Comptes Rendus - Biologies</i> , 2016, 339, 289-295.	0.1	2
79	EST Databases and Web Tools for EST Projects. <i>Methods in Molecular Biology</i> , 2009, 533, 241-256.	0.4	2
80	MAPITâ€”a Semi-Automated Approach to the Representation of Genetic Maps. <i>Computational Biology</i> , 2000, , 149-161.	0.1	0
81	Mitochondrial Genome, <i>Evolution.</i> , 2004, , 703-708.		0