

Gertraud Burger

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	An Unexpectedly Complex Mitochondrion 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
2	Gene fragmentation and RNA editing without borders: eccentric mitochondrial genomes of diplomids. <i>Nucleic Acids Research</i> , 2020, 48, 2694-2708.	6.5	31
3	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
4	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
5	Genetic tool development in marine protists: emerging model organisms for experimental cell biology. <i>Nature Methods</i> , 2020, 17, 481-494.	9.0	97
6	Transformation of <i>Diplonema papillatum</i> , the type species of the highly diverse and abundant marine microeukaryotes Diplonemida (Euglenozoa). <i>Environmental Microbiology</i> , 2018, 20, 1030-1040.	1.8	20
7	Respiratory chain Complex I of unparalleled divergence in diplomids. <i>Journal of Biological Chemistry</i> , 2018, 293, 16043-16056.	1.6	18
8	Perfection of eccentricity: Mitochondrial genomes of diplomids. <i>IUBMB Life</i> , 2018, 70, 1197-1206.	1.5	24
9	Mitochondrial RNA Editing and Processing in Diplonemid Protists. <i>Nucleic Acids and Molecular Biology</i> , 2018, , 145-176.	0.2	5
10	Keeping it complicated: Mitochondrial genome plasticity across diplomids. <i>Scientific Reports</i> , 2017, 7, 14166.	1.6	18
11	Expansion of Signal Transduction Pathways in Fungi by Extensive Genome Duplication. <i>Current Biology</i> , 2016, 26, 1577-1584.	1.8	175
12	Non-functional genes repaired at the RNA level. <i>Comptes Rendus - Biologies</i> , 2016, 339, 289-295.	0.1	2
13	Post-transcriptional mending of gene sequences: Looking under the hood of mitochondrial gene expression in diplomids. <i>RNA Biology</i> , 2016, 13, 1204-1211.	1.5	14
14	Genes in Hiding. <i>Trends in Genetics</i> , 2016, 32, 553-565.	2.9	16
15	Programmed translational bypassing elements in mitochondria: structure, mobility, and evolutionary origin. <i>Trends in Genetics</i> , 2015, 31, 187-194.	2.9	19
16	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
17	Widespread occurrence of organelle genome-encoded 5S rRNAs including permuted molecules. <i>Nucleic Acids Research</i> , 2014, 42, 13764-13777.	6.5	129
18	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

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19	Earliest Holozoan Expansion of Phosphotyrosine Signaling. <i>Molecular Biology and Evolution</i> , 2014, 31, 517-528.	3.5	41
20	Strikingly Bacteria-Like and Gene-Rich Mitochondrial Genomes throughout Jakobid Protists. <i>Genome Biology and Evolution</i> , 2013, 5, 418-438.	1.1	222
21	A second eukaryotic group with mitochondrion-encoded tmRNA. <i>RNA Biology</i> , 2013, 10, 1117-1124.	1.5	18
22	<i>Cyanophora paradoxa</i> Genome Elucidates Origin of Photosynthesis in Algae and Plants. <i>Science</i> , 2012, 335, 843-847.	6.0	371
23	Mitochondrial and Eukaryotic Origins. <i>Advances in Botanical Research</i> , 2012, , 1-20.	0.5	14
24	Mitochondrial Genomes of Algae. <i>Advances in Photosynthesis and Respiration</i> , 2012, , 127-157.	1.0	13
25	Unscrambling genetic information at the RNA level. <i>Wiley Interdisciplinary Reviews RNA</i> , 2012, 3, 213-228.	3.2	25
26	Unusual Mitochondrial Genomes and Genes. , 2012, , 41-77.		9
27	Gene fragmentation: a key to mitochondrial genome evolution in Euglenozoa?. <i>Current Genetics</i> , 2011, 57, 225-232.	0.8	48
28	Systematically fragmented genes in a multipartite mitochondrial genome. <i>Nucleic Acids Research</i> , 2011, 39, 979-988.	6.5	72
29	Evolutionarily Conserved <i>cox1</i> Trans-Splicing Without cis-Motifs. <i>Molecular Biology and Evolution</i> , 2011, 28, 2425-2428.	3.5	28
30	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
31	Abundant 5S rRNA-Like Transcripts Encoded by the Mitochondrial Genome in Amoebozoa. <i>Eukaryotic Cell</i> , 2010, 9, 762-773.	3.4	34
32	GOBASE: an organelle genome database. <i>Nucleic Acids Research</i> , 2009, 37, D946-D950.	6.5	74
33	Diversity and dispersal of a ubiquitous protein family: acyl-CoA dehydrogenases. <i>Nucleic Acids Research</i> , 2009, 37, 5619-5631.	6.5	26
34	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
35	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
36	EST Databases and Web Tools for EST Projects. <i>Methods in Molecular Biology</i> , 2009, 533, 241-256.	0.4	2

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37	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
38	A Phylogenomic Investigation into the Origin of Metazoa. Molecular Biology and Evolution, 2008, 25, 664-672.	3.5	259
39	TBestDB: a taxonomically broad database of expressed sequence tags (ESTs). Nucleic Acids Research, 2007, 35, D445-D451.	6.5	81
40	Mitochondrial DNA as a Genomic Jigsaw Puzzle. Science, 2007, 318, 415-415.	6.0	110
41	Purification of mitochondrial and plastid DNA. Nature Protocols, 2007, 2, 652-660.	5.5	58
42	Sequencing complete mitochondrial and plastid genomes. Nature Protocols, 2007, 2, 603-614.	5.5	84
43	Toward Resolving the Eukaryotic Tree: The Phylogenetic Positions of Jakobids and Cercozoans. Current Biology, 2007, 17, 1420-1425.	1.8	170
44	Unusual Mitochondrial Genome Structures throughout the Euglenozoa. Protist, 2007, 158, 385-396.	0.6	50
45	The origins of multicellularity: a multi-taxon genome initiative. Trends in Genetics, 2007, 23, 113-118.	2.9	201
46	Mitochondrial introns: a critical view. Trends in Genetics, 2007, 23, 119-125.	2.9	313
47	GOBASE—a database of organelle and bacterial genome information. Nucleic Acids Research, 2006, 34, D697-D699.	6.5	19
48	The Rhodomonas salina mitochondrial genome: bacteria-like operons, compact gene arrangement and complex repeat region. Nucleic Acids Research, 2005, 33, 4433-4442.	6.5	50
49	Monophyly of Primary Photosynthetic Eukaryotes: Green Plants, Red Algae, and Glaucophytes. Current Biology, 2005, 15, 1325-1330.	1.8	502
50	AutoFACT: an automatic functional annotation and classification tool. BMC Bioinformatics, 2005, 6, 151.	1.2	189
51	Unique Mitochondrial Genome Structure in Diplonemids, the Sister Group of Kinetoplastids. Eukaryotic Cell, 2005, 4, 1137-1146.	3.4	94
52	The tree of eukaryotes. Trends in Ecology and Evolution, 2005, 20, 670-676.	4.2	549
53	Mitochondria of Protists. Annual Review of Genetics, 2004, 38, 477-524.	3.2	295
54	Mitochondrial Genome, Evolution. , 2004, , 703-708.		0

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55	Parallels in Genome Evolution in Mitochondria and Bacterial Symbionts. IUBMB Life, 2003, 55, 205-212.	1.5	45
56	Mitochondrial genomes: anything goes. Trends in Genetics, 2003, 19, 709-716.	2.9	555
57	AnaBench: a Web/CORBA-based workbench for biomolecular sequence analysis. BMC Bioinformatics, 2003, 4, 63.	1.2	20
58	Structure of the bc1 Complex from Seculamonas ecuadoriensis, a Jakobid Flagellate with an Ancestral Mitochondrial Genome. Molecular Biology and Evolution, 2003, 20, 145-153.	3.5	10
59	Unique mitochondrial genome architecture in unicellular relatives of animals. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 892-897.	3.3	209
60	The enigmatic mitochondrial ORF ymf39 codes for ATP synthase chain b. Nucleic Acids Research, 2003, 31, 2353-2360.	6.5	38
61	GOBASE—a database of mitochondrial and chloroplast information. Nucleic Acids Research, 2003, 31, 176-178.	6.5	28
62	The origin and early evolution of mitochondria. Genome Biology, 2001, 2, reviews1018.1.	13.9	353
63	A novel motif for identifying Rps3 homologs in fungal mitochondrial genomes. Trends in Biochemical Sciences, 2000, 25, 363-365.	3.7	76
64	The Complete Mitochondrial DNA Sequence of Scenedesmus obliquus Reflects an Intermediate Stage in the Evolution of the Green Algal Mitochondrial Genome. Genome Research, 2000, 10, 819-831.	2.4	98
65	Early eukaryote evolution based on mitochondrial gene order breakpoints. , 2000, , .		15
66	Early Eukaryote Evolution Based on Mitochondrial Gene Order Breakpoints. Journal of Computational Biology, 2000, 7, 521-535.	0.8	35
67	Complete sequence of the mitochondrial genome of Tetrahymena pyriformis and comparison with Paramecium aurelia mitochondrial DNA. Journal of Molecular Biology, 2000, 297, 365-380.	2.0	106
68	Expression of mitochondrial protein-coding genes in Tetrahymena pyriformis. Journal of Molecular Biology, 2000, 297, 381-393.	2.0	41
69	MAPIT—a Semi-Automated Approach to the Representation of Genetic Maps. Computational Biology, 2000, , 149-161.	0.1	0
70	Complete Sequence of the Mitochondrial DNA of the Red Alga Porphyra purpurea: Cyanobacterial Introns and Shared Ancestry of Red and Green Algae. Plant Cell, 1999, 11, 1675.	3.1	4
71	Complete Sequence of the Mitochondrial DNA of the Red Alga Porphyra purpurea: Cyanobacterial Introns and Shared Ancestry of Red and Green Algae. Plant Cell, 1999, 11, 1675-1694.	3.1	178
72	The Complete Mitochondrial DNA Sequences of Nephroselmis olivacea and Pedinomonas minor: Two Radically Different Evolutionary Patterns within Green Algae. Plant Cell, 1999, 11, 1717-1729.	3.1	154

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73	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
74	Mitochondrial Genome Evolution and the Origin of Eukaryotes. <i>Annual Review of Genetics</i> , 1999, 33, 351-397.	3.2	603
75	Mitochondrial Evolution. <i>Science</i> , 1999, 283, 1476-1481.	6.0	1,595
76	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.	3.1	16
77	Mitochondrial Genomics in Protists, an Approach to Probing Eukaryotic Evolution. <i>Protist</i> , 1998, 149, 313-322.	0.6	17
78	An ancestral mitochondrial DNA resembling a eubacterial genome in miniature. <i>Nature</i> , 1997, 387, 493-497.	13.7	658
79	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
80	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
81	A rapid, high resolution DNA sequencing gel system. <i>Analytical Biochemistry</i> , 1990, 188, 176-180.	1.1	36