Gertraud Burger

List of Publications by Year
in descending order

97 papers	10,593 citations	76326 40 h-index	38395 95 g-index
98 all docs	98 docs citations	98 times ranked	9714 citing authors

#	Article	IF	Citations
1	Eukaryotic plankton diversity in the sunlit ocean. Science, 2015, 348, 1261605.	12.6	1,551
2	The Revised Classification of Eukaryotes. Journal of Eukaryotic Microbiology, 2012, 59, 429-514.	1.7	1,340
3	Revisions to the Classification, Nomenclature, and Diversity of Eukaryotes. Journal of Eukaryotic Microbiology, 2019, 66, 4-119.	1.7	904
4	An ancestral mitochondrial DNA resembling a eubacterial genome in miniature. Nature, 1997, 387, 493-497.	27.8	658
5	Mitochondrial Genome Evolution and the Origin of Eukaryotes. Annual Review of Genetics, 1999, 33, 351-397.	7.6	603
6	Mitochondrial genomes: anything goes. Trends in Genetics, 2003, 19, 709-716.	6.7	555
7	CBOL Protist Working Group: Barcoding Eukaryotic Richness beyond the Animal, Plant, and Fungal Kingdoms. PLoS Biology, 2012, 10, e1001419.	5.6	488
8	Mitochondria of Protists. Annual Review of Genetics, 2004, 38, 477-524.	7.6	295
9	Strikingly Bacteria-Like and Gene-Rich Mitochondrial Genomes throughout Jakobid Protists. Genome Biology and Evolution, 2013, 5, 418-438.	2.5	222
10	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.	7.1	209
11	Irremediable Complexity?. Science, 2010, 330, 920-921.	12.6	204
12	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.	6.6	178
13	How a neutral evolutionary ratchet can build cellular complexity. IUBMB Life, 2011, 63, 528-537.	3.4	160
14	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.	6.6	154
15	Widespread occurrence of organelle genome-encoded 5S rRNAs including permuted molecules. Nucleic Acids Research, 2014, 42, 13764-13777.	14.5	129
16	Trypanosome <scp>RNA</scp> editing: the complexity of getting U in and taking U out. Wiley Interdisciplinary Reviews RNA, 2016, 7, 33-51.	6.4	124
17	Mitochondrial DNA as a Genomic Jigsaw Puzzle. Science, 2007, 318, 415-415.	12.6	110
18	Extreme Diversity of Diplonemid Eukaryotes in the Ocean. Current Biology, 2016, 26, 3060-3065.	3.9	105

#	Article	IF	Citations
19	Euglenozoa: taxonomy, diversity and ecology, symbioses and viruses. Open Biology, 2021, 11, 200407.	3.6	102
20	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.	5.5	98
21	Genetic tool development in marine protists: emerging model organisms for experimental cell biology. Nature Methods, 2020, 17, 481-494.	19.0	97
22	An updated phylogeny of the Alphaproteobacteria reveals that the parasitic Rickettsiales and Holosporales have independent origins. ELife, 2019, 8, .	6.0	91
23	Comparative Metabolism of Freeâ€living Bodo saltans and Parasitic Trypanosomatids. Journal of Eukaryotic Microbiology, 2016, 63, 657-678.	1.7	86
24	Sequencing complete mitochondrial and plastid genomes. Nature Protocols, 2007, 2, 603-614.	12.0	84
25	Morphological Identification and Single-Cell Genomics of Marine Diplonemids. Current Biology, 2016, 26, 3053-3059.	3.9	83
26	A Comparative Genomics Approach to the Evolution of Eukaryotes and their Mitochondria. Journal of Eukaryotic Microbiology, 1999, 46, 320-326.	1.7	79
27	Group I-intron trans-splicing and mRNA editing in the mitochondria of placozoan animals. Trends in Genetics, 2009, 25, 381-386.	6.7	79
28	Systematically fragmented genes in a multipartite mitochondrial genome. Nucleic Acids Research, 2011, 39, 979-988.	14.5	72
29	Purification of mitochondrial and plastid DNA. Nature Protocols, 2007, 2, 652-660.	12.0	58
30	Massive programmed translational jumping in mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5926-5931.	7.1	58
31	Unexpectedly Streamlined Mitochondrial Genome of the EuglenozoanEuglena gracilis. Genome Biology and Evolution, 2015, 7, 3358-3367.	2.5	57
32	Plasticity of a key metabolic pathway in fungi. Functional and Integrative Genomics, 2009, 9, 145-151.	3.5	56
33	Dual core processing: MRB1 is an emerging kinetoplast RNA editing complex. Trends in Parasitology, 2013, 29, 91-99.	3.3	53
34	Unusual Mitochondrial Genome Structures throughout the Euglenozoa. Protist, 2007, 158, 385-396.	1.5	50
35	Life Cycle, Ultrastructure, and Phylogeny of New Diplonemids and Their Endosymbiotic Bacteria. MBio, 2018, 9, .	4.1	50
36	Parasite microbiome project: Grand challenges. PLoS Pathogens, 2019, 15, e1008028.	4.7	50

#	Article	IF	Citations
37	Novel modes of RNA editing in mitochondria. Nucleic Acids Research, 2016, 44, 4907-4919.	14.5	49
38	Gene fragmentation: a key to mitochondrial genome evolution in Euglenozoa?. Current Genetics, 2011, 57, 225-232.	1.7	48
39	Evolution of metabolic capabilities and molecular features of diplonemids, kinetoplastids, and euglenids. BMC Biology, 2020, 18, 23.	3.8	48
40	Diplonemids. Current Biology, 2015, 25, R702-R704.	3.9	46
41	Parallels in Genome Evolution in Mitochondria and Bacterial Symbionts. IUBMB Life, 2003, 55, 205-212.	3.4	45
42	Phylogeny and Morphology of New Diplonemids from Japan. Protist, 2018, 169, 158-179.	1.5	44
43	The draft nuclear genome sequence and predicted mitochondrial proteome of Andalucia godoyi, a protist with the most gene-rich and bacteria-like mitochondrial genome. BMC Biology, 2020, 18, 22.	3.8	43
44	Highly Reduced Genomes of Protist Endosymbionts Show Evolutionary Convergence. Current Biology, 2020, 30, 925-933.e3.	3.9	41
45	Massive mitochondrial DNA content in diplonemid and kinetoplastid protists. IUBMB Life, 2018, 70, 1267-1274.	3.4	39
46	The enigmatic mitochondrial ORF ymf39 codes for ATP synthase chain b. Nucleic Acids Research, 2003, 31, 2353-2360.	14.5	38
47	RNA-level unscrambling of fragmented genes inDiplonemamitochondria. RNA Biology, 2013, 10, 301-313.	3.1	33
48	Description of Rhynchopus euleeides n. sp. (Diplonemea), a Free-Living Marine Euglenozoan. Journal of Eukaryotic Microbiology, 2007, 54, 137-145.	1.7	32
49	Morphological, Ultrastructural, Motility and Evolutionary Characterization of Two New Hemistasiidae Species. Protist, 2019, 170, 259-282.	1.5	32
50	Causes and Effects of Loss of Classical Nonhomologous End Joining Pathway in Parasitic Eukaryotes. MBio, 2019, 10, .	4.1	31
51	Gene fragmentation and RNA editing without borders: eccentric mitochondrial genomes of diplonemids. Nucleic Acids Research, 2020, 48, 2694-2708.	14.5	31
52	RNA Editing in Mitochondria and Plastids: Weird and Widespread. Trends in Genetics, 2021, 37, 99-102.	6.7	31
53	Trans-splicing and RNA editing of LSU rRNA in Diplonema mitochondria. Nucleic Acids Research, 2014, 42, 2660-2672.	14.5	30
54	Trypanosomatid mitochondrial RNA editing: dramatically complex transcript repertoires revealed with a dedicated mapping tool. Nucleic Acids Research, 2018, 46, 765-781.	14.5	30

#	Article	IF	Citations
55	Evolutionarily Conserved cox1Trans-Splicing Without cis-Motifs. Molecular Biology and Evolution, 2011, 28, 2425-2428.	8.9	28
56	Gene Loss and Error-Prone RNA Editing in the Mitochondrion of Perkinsela , an Endosymbiotic Kinetoplastid. MBio, 2015, 6, e01498-15.	4.1	28
57	Reductionist Pathways for Parasitism in Euglenozoans? Expanded Datasets Provide New Insights. Trends in Parasitology, 2021, 37, 100-116.	3.3	28
58	Neobodonids are dominant kinetoplastids in the global ocean. Environmental Microbiology, 2018, 20, 878-889.	3.8	27
59	Unscrambling genetic information at the RNA level. Wiley Interdisciplinary Reviews RNA, 2012, 3, 213-228.	6.4	25
60	Aerobic mitochondria of parasitic protists: Diverse genomes and complex functions. Molecular and Biochemical Parasitology, 2016, 209, 46-57.	1.1	24
61	Perfection of eccentricity: Mitochondrial genomes of diplonemids. IUBMB Life, 2018, 70, 1197-1206.	3.4	24
62	A Uniquely Complex Mitochondrial Proteome from Euglena gracilis. Molecular Biology and Evolution, 2020, 37, 2173-2191.	8.9	22
63	Transformation of Diplonema papillatum, the type species of the highly diverse and abundant marine microeukaryotes Diplonemida (Euglenozoa). Environmental Microbiology, 2018, 20, 1030-1040.	3.8	20
64	UTILITY OF THE MITOCHONDRIAL nad4L GENE FOR ALGAL AND PROTISTAN PHYLOGENETIC ANALYSIS1. Journal of Phycology, 1996, 32, 452-456.	2.3	19
65	Programmed translational bypassing elements in mitochondria: structure, mobility, and evolutionary origin. Trends in Genetics, 2015, 31, 187-194.	6.7	19
66	Highly flexible metabolism of the marine euglenozoan protist Diplonema papillatum. BMC Biology, 2021, 19, 251.	3.8	19
67	Keeping it complicated: Mitochondrial genome plasticity across diplonemids. Scientific Reports, 2017, 7, 14166.	3.3	18
68	Respiratory chain Complex I of unparalleled divergence in diplonemids. Journal of Biological Chemistry, 2018, 293, 16043-16056.	3.4	18
69	Construction of cDNA Libraries: Focus on Protists and Fungi. Methods in Molecular Biology, 2009, 533, 33-47.	0.9	18
70	A Revised Taxonomy of Diplonemids Including the Eupelagonemidae n. fam. and a Type Species, Eupelagonema oceanica n. gen. & sp.. Journal of Eukaryotic Microbiology, 2019, 66, 519-524.	1.7	17
71	Vickermania gen. nov., trypanosomatids that use two joined flagella to resist midgut peristaltic flow within the fly host. BMC Biology, 2020, 18, 187.	3.8	17
72	An Advanced System of the Mitochondrial Processing Peptidase and Core Protein Family in Trypanosoma brucei and Multiple Origins of the Core I Subunit in Eukaryotes. Genome Biology and Evolution, 2013, 5, 860-875.	2.5	16

#	Article	IF	Citations
73	Genes in Hiding. Trends in Genetics, 2016, 32, 553-565.	6.7	16
74	Diplonemids â€“ A Review on "New" Flagellates on the Oceanic Block. Protist, 2022, 173, 125868.	1.5	15
75	Post-transcriptional mending of gene sequences: Looking under the hood of mitochondrial gene expression in diplonemids. RNA Biology, 2016, 13, 1204-1211.	3.1	14
76	Unassigned MURF1 of kinetoplastids codes for NADH dehydrogenase subunit 2. BMC Genomics, 2008, 9, 455.	2.8	13
77	Catalase and Ascorbate Peroxidase in Euglenozoan Protists. Pathogens, 2020, 9, 317.	2.8	12
78	Characterization of a new cosmopolitan genus of trypanosomatid parasites, Obscuromonas gen. nov. (Blastocrithidiinae subfam. nov.). European Journal of Protistology, 2021, 79, 125778.	1.5	12
79	From simple to supercomplex: mitochondrial genomes of euglenozoan protists. F1000Research, 2016, 5, 392.	1.6	12
80	Single-cell genomics unveils a canonical origin of the diverse mitochondrial genomes of euglenozoans. BMC Biology, 2021, 19, 103.	3.8	10
81	Trophic flexibility of marine diplonemids - switching from osmotrophy to bacterivory. ISME Journal, 2022, 16, 1409-1419.	9.8	10
82	Unusual Mitochondrial Genomes and Genes. , 2012, , 41-77.		9
83	Extensive molecular tinkering in the evolution of the membrane attachment mode of the Rheb GTPase. Scientific Reports, 2018, 8, 5239.	3.3	9
84	Trypanosomal mitochondrial intermediate peptidase does not behave as a classical mitochondrial processing peptidase. PLoS ONE, 2018, 13, e0196474.	2.5	9
85	Targeted integration by homologous recombination enables in situ tagging and replacement of genes in the marine microeukaryote Diplonema papillatum. Environmental Microbiology, 2020, 22, 3660-3670.	3.8	9
86	Complete minicircle genome ofLeptomonas pyrrhocorisreveals sources of its non-canonical mitochondrial RNA editing events. Nucleic Acids Research, 2021, 49, 3354-3370.	14.5	9
87	Unique Dynamics of Paramylon Storage in the Marine Euglenozoan Diplonema papillatum. Protist, 2020, 171, 125717.	1.5	8
88	An Unexpectedly Complex Mitoribosome in Andalucia godoyi, a Protist with the Most Bacteria-like Mitochondrial Genome. Molecular Biology and Evolution, 2021, 38, 788-804.	8.9	8
89	Vestiges of the Bacterial Signal Recognition Particle-Based Protein Targeting in Mitochondria. Molecular Biology and Evolution, 2021, 38, 3170-3187.	8.9	8
90	A New Model Trypanosomatid, Novymonas esmeraldas : Genomic Perception of Its â€œ Candidatus Pandoraea novymonadisâ€•Endosymbiont. MBio, 2021, 12, e0160621.	4.1	8

#	Article	IF	Citations
91	OUP accepted manuscript. Database: the Journal of Biological Databases and Curation, 2020, 2020, .	3.0	8
92	Gene Transfer Agents in Bacterial Endosymbionts of Microbial Eukaryotes. Genome Biology and Evolution, 2022, 14, .	2.5	8
93	TbUTP10, a protein involved in early stages of pre-18S rRNA processing in Trypanosoma brucei. Molecular and Biochemical Parasitology, 2018, 225, 84-93.	1.1	7
94	Three-dimensional structure model and predicted ATP interaction rewiring of a deviant RNA ligase 2. BMC Structural Biology, 2015, 15, 20.	2.3	4
95	Non-functional genes repaired at the RNA level. Comptes Rendus - Biologies, 2016, 339, 289-295.	0.2	2
96	EST Databases and Web Tools for EST Projects. Methods in Molecular Biology, 2009, 533, 241-256.	0.9	2
97	Distribution of Merlin in eukaryotes and first report of DNA transposons in kinetoplastid protists. PLoS ONE, 2021, 16, e0251133.	2.5	1