Ross Waller

List of Publications by Year
in descending order

78 papers	7,864 citations	71102 41 h-index	71685 76 g-index
85 all docs	85 docs citations	85 times ranked	6478 citing authors

#	Article	IF	Citations
1	Nuclear-encoded proteins target to the plastid in Toxoplasma gondii and Plasmodium falciparum. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 12352-12357.	7.1	691
2	Macronuclear Genome Sequence of the Ciliate Tetrahymena thermophila, a Model Eukaryote. PLoS Biology, 2006, 4, e286.	5.6	657
3	Plastid Evolution. Annual Review of Plant Biology, 2008, 59, 491-517.	18.7	597
4	Metabolic maps and functions of the Plasmodium falciparum apicoplast. Nature Reviews Microbiology, 2004, 2, 203-216.	28.6	560
5	Protein trafficking to the plastid of Plasmodium falciparum is via the secretory pathway. EMBO Journal, 2000, 19, 1794-1802.	7.8	469
6	Targeted Gene Disruption Shows That Knobs Enable Malaria-Infected Red Cells to Cytoadhere under Physiological Shear Stress. Cell, 1997, 89, 287-296.	28.9	398
7	The Omp85 family of proteins is essential for outer membrane biogenesis in mitochondria and bacteria. Journal of Cell Biology, 2004, 164, 19-24.	5.2	335
8	Chromerid genomes reveal the evolutionary path from photosynthetic algae to obligate intracellular parasites. ELife, 2015, 4, e06974.	6.0	198
9	Alveolins, a New Family of Cortical Proteins that Define the Protist Infrakingdom Alveolata. Molecular Biology and Evolution, 2008, 25, 1219-1230.	8.9	184
10	A Type II Pathway for Fatty Acid Biosynthesis Presents Drug Targets in Plasmodium falciparum. Antimicrobial Agents and Chemotherapy, 2003, 47, 297-301.	3.2	171
11	Origin and distribution of epipolythiodioxopiperazine (ETP) gene clusters in filamentous ascomycetes. BMC Evolutionary Biology, 2007, 7, 174.	3.2	151
12	Transit peptide diversity and divergence: A global analysis of plastid targeting signals. BioEssays, 2007, 29, 1048-1058.	2.5	150
13	A Tertiary Plastid Uses Genes from Two Endosymbionts. Journal of Molecular Biology, 2006, 357, 1373-1382.	4.2	146
14	Targeted mutagenesis of Plasmodium falciparum erythrocyte membrane protein 3 (PfEMP3) disrupts cytoadherence of malaria-infected red blood cells. EMBO Journal, 2000, 19, 2813-2823.	7.8	143
15	Complex Protein Targeting to Dinoflagellate Plastids. Journal of Molecular Biology, 2005, 348, 1015-1024.	4.2	143
16	Loss of Nucleosomal DNA Condensation Coincides with Appearance of a Novel Nuclear Protein in Dinoflagellates. Current Biology, 2012, 22, 2303-2312.	3.9	133
17	PimE Is a Polyprenol-phosphate-mannose-dependent Mannosyltransferase That Transfers the Fifth Mannose of Phosphatidylinositol Mannoside in Mycobacteria. Journal of Biological Chemistry, 2006, 281, 25143-25155.	3.4	118
18	Plastids in parasites of humans. BioEssays, 1997, 19, 1033-1040.	2.5	117

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19	RAP1 controls rhoptry targeting of RAP2 in the malaria parasite Plasmodium falciparum. EMBO Journal, 2000, 19, 2435-2443.	7.8	113
20	Dinoflagellate mitochondrial genomes: stretching the rules of molecular biology. BioEssays, 2009, 31, 237-245.	2.5	110
21	The C-terminal TPR Domain of Tom70 Defines a Family of Mitochondrial Protein Import Receptors Found only in Animals and Fungi. Journal of Molecular Biology, 2006, 358, 1010-1022.	4.2	97
22	The Single Mitochondrial Porin of Trypanosoma brucei is the Main Metabolite Transporter in the Outer Mitochondrial Membrane. Molecular Biology and Evolution, 2008, 26, 671-680.	8.9	94
23	Compartmentalization of Lipid Biosynthesis in Mycobacteria. Journal of Biological Chemistry, 2005, 280, 21645-21652.	3.4	92
24	The Apical Complex Provides a Regulated Gateway for Secretion of Invasion Factors in Toxoplasma. PLoS Pathogens, 2014, 10, e1004074.	4.7	92
25	Shikimate pathway in apicomplexan parasites. Nature, 1999, 397, 219-220.	27.8	91
26	Endosymbiosis undone by stepwise elimination of the plastid in a parasitic dinoflagellate. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5767-5772.	7.1	88
27	Lateral Gene Transfer of a Multigene Region from Cyanobacteria to Dinoflagellates Resulting in a Novel Plastid-Targeted Fusion Protein. Molecular Biology and Evolution, 2006, 23, 1437-1443.	8.9	78
28	INVESTIGATIONS INTO SOUTHERN AUSTRALIAN ULVA (ULVOPHYCEAE, CHLOROPHYTA) TAXONOMY AND MOLECULAR PHYLOGENY INDICATE BOTH COSMOPOLITANISM AND ENDEMIC CRYPTIC SPECIES¹. Journal of Phycology, 2010, 46, 1257-1277.	2.3	76
29	Apicomplexan Energy Metabolism: Carbon Source Promiscuity and the Quiescence Hyperbole. Trends in Parasitology, 2016, 32, 56-70.	3.3	76
30	Dinoflagellate phylogeny revisited: Using ribosomal proteins to resolve deep branching dinoflagellate clades. Molecular Phylogenetics and Evolution, 2014, 70, 314-322.	2.7	70
31	Broad genomic and transcriptional analysis reveals a highly derived genome in dinoflagellate mitochondria. BMC Biology, 2007, 5, 41.	3.8	69
32	Molecular Phylogeny of Chlorarachniophytes Based on Plastid rRNA and rbcL Sequences. Archiv FÃ¼r Protistenkunde, 1995, 145, 231-239.	0.8	67
33	Alveolate Mitochondrial Metabolic Evolution: Dinoflagellates Force Reassessment of the Role of Parasitism as a Driver of Change in Apicomplexans. Molecular Biology and Evolution, 2013, 30, 123-139.	8.9	65
34	Traffic Jams: Protein Transport in Plasmodium falciparum. Parasitology Today, 2000, 16, 421-427.	3.0	64
35	Pathogenic adaptation of intracellular bacteria by rewiring a cis-regulatory input function. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3982-3987.	7.1	60
36	Mannose metabolism is required for mycobacterial growth. Biochemical Journal, 2003, 372, 77-86.	3.7	59

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37	Structure, topology and function of the translocase of the outer membrane of mitochondria. Plant Physiology and Biochemistry, 2008, 46, 265-274.	5.8	59
38	Evolution, Composition, Assembly, and Function of the Conoid in Apicomplexa. Trends in Parasitology, 2020, 36, 688-704.	3.3	57
39	Molecular characterization of the conoid complex in Toxoplasma reveals its conservation in all apicomplexans, including Plasmodium species. PLoS Biology, 2021, 19, e3001081.	5.6	56
40	Ciliate Pellicular Proteome Identifies Novel Protein Families with Characteristic Repeat Motifs That Are Common to Alveolates. Molecular Biology and Evolution, 2011, 28, 1319-1331.	8.9	55
41	Patterns that Define the Four Domains Conserved in Known and Novel Isoforms of the Protein Import Receptor Tom20. Journal of Molecular Biology, 2005, 347, 81-93.	4.2	53
42	Real-time dynamics of Plasmodium NDC80 reveals unusual modes of chromosome segregation during parasite proliferation. Journal of Cell Science, 2020, 134, .	2.0	51
43	The Mitochondrial Genome and Transcriptome of the Basal Dinoflagellate Hematodinium sp.: Character Evolution within the Highly Derived Mitochondrial Genomes of Dinoflagellates. Genome Biology and Evolution, 2012, 4, 59-72.	2.5	49
44	Evidence of a Reduced and Modified Mitochondrial Protein Import Apparatus in Microsporidian Mitosomes. Eukaryotic Cell, 2009, 8, 19-26.	3.4	47
45	Alveolate and chlorophycean mitochondrial cox2 genes split twice independently. Gene, 2006, 383, 33-37.	2.2	42
46	Two essential Thioredoxins mediate apicoplast biogenesis, protein import, and gene expression in Toxoplasma gondii. PLoS Pathogens, 2018, 14, e1006836.	4.7	40
47	Developmental changes in lysosome morphology and function Leishmania parasites. International Journal for Parasitology, 2002, 32, 1435-1445.	3.1	39
48	Systematic analysis of Plasmodium myosins reveals differential expression, localisation, and function in invasive and proliferative parasite stages. Cellular Microbiology, 2019, 21, e13082.	2.1	37
49	Phylogenetic history of plastid-targeted proteins in the peridinin-containing dinoflagellate Heterocapsa triquetra. International Journal of Systematic and Evolutionary Microbiology, 2006, 56, 1439-1447.	1.7	33
50	The Biochemistry and Evolution of the Dinoflagellate Nucleus. Microorganisms, 2019, 7, 245.	3.6	29
51	Localization and activity of multidrug resistance protein 1 in the secretory pathway of Leishmania parasites. Molecular Microbiology, 2004, 51, 1563-1575.	2.5	28
52	Repurposing of synaptonemal complex proteins for kinetochores in Kinetoplastida. Open Biology, 2021, 11, 210049.	3.6	28
53	Metabolic pathway redundancy within the apicomplexan-dinoflagellate radiation argues against an ancient chromalveolate plastid. Communicative and Integrative Biology, 2016, 9, e1116653.	1.4	26
54	A Tertiary Plastid Gains RNA Editing in Its New Host. Molecular Biology and Evolution, 2013, 30, 788-792.	8.9	24

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55	Purification, characterization of O-acetylated sialoglycoconjugates-specific IgM, and development of an enzyme-linked immunosorbent assay for diagnosis and follow-up of indian visceral leishmaniasis patients. Diagnostic Microbiology and Infectious Disease, 2004, 50, 15-24.	1.8	23
56	A Widespread and Unusual RNA Trans-Splicing Type in Dinoflagellate Mitochondria. PLoS ONE, 2013, 8, e56777.	2.5	23
57	Genetic transformation of the dinoflagellate chloroplast. ELife, 2019, 8, .	6.0	22
58	More plastids in human parasites?. Trends in Parasitology, 2004, 20, 54-57.	3.3	19
59	Calcium negatively regulates secretion from dense granules in <scp> Toxoplasma gondii </scp>. Cellular Microbiology, 2019, 21, e13011.	2.1	18
60	Characterization of Tt ALV2, an Essential Charged Repeat Motif Protein of the Tetrahymena thermophila Membrane Skeleton. Eukaryotic Cell, 2013, 12, 932-940.	3.4	17
61	Andersenia, a genus of filamentous, sand-dwelling Pelagophyceae from southeastern Australia. Phycologia, 2015, 54, 35-48.	1.4	16
62	A Prioritized and Validated Resource of Mitochondrial Proteins in Plasmodium Identifies Unique Biology. MSphere, 2021, 6, e0061421.	2.9	16
63	Surface Morphology of Saccinobaculus (Oxymonadida): Implications for Character Evolution and Function in Oxymonads. Protist, 2008, 159, 209-221.	1.5	15
64	Strength in numbers: Collaborative science for new experimental model systems. PLoS Biology, 2018, 16, e2006333.	5.6	15
65	Psammamonas australis gen. et sp. nov. (Raphidophyceae), a new dimorphic, sand-dwelling alga. Phycologia, 2013, 52, 57-64.	1.4	14
66	Preliminary Characterisation of Chlorarachniophyte Mitochondrial DNA. Journal of Eukaryotic Microbiology, 1995, 42, 696-701.	1.7	12
67	Platychrysis moestrupiisp. nov. (Prymnesiophyceae): a new dimorphic, sand-dwelling haptophyte species from southeastern Australia. Phycologia, 2011, 50, 608-615.	1.4	9
68	Unusual Mitochondrial Genomes and Genes. , 2012, , 41-77.		9
69	An Assessment of Vertical Inheritance versus Endosymbiont Transfer of Nucleus-encoded Genes for Mitochondrial Proteins Following Tertiary Endosymbiosis in Karlodinium micrum. Protist, 2012, 163, 76-90.	1.5	9
70	New Host Range for Hematodinium in Southern Australia and Novel Tools for Sensitive Detection of Parasitic Dinoflagellates. PLoS ONE, 2013, 8, e82774.	2.5	9
71	Morphological and cytochemical analysis of an unusual nucleus-pyrenoid association in a unicellular red alga. Protoplasma, 1995, 186, 131-141.	2.1	6
72	In Situ Hybridization for Electron Microscopy. , 2000, 123, 259-278.		6

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73	Analysis of Dinoflagellate Mitochondrial Protein Sorting Signals Indicates a Highly Stable Protein Targeting System across Eukaryotic Diversity. Journal of Molecular Biology, 2011, 408, 643-653.	4.2	6
74	Second genesis of a plastid organelle. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5142-5143.	7.1	4
75	An essential pentatricopeptide repeat protein in the apicomplexan remnant chloroplast. Cellular Microbiology, 2019, 21, e13108.	2.1	4
76	Development of the Myzozoan Aquatic Parasite Perkinsus marinus as A Versatile Experimental Genetic Model Organism. Protist, 2021, 172, 125830.	1.5	4
77	Mitochondrial Genes of Dinoflagellates Are Transcribed by a Nuclear-Encoded Single-Subunit RNA Polymerase. PLoS ONE, 2013, 8, e65387.	2.5	4
78	Response from McFadden and Waller. Trends in Microbiology, 1999, 7, 267-268.	7.7	3