Michael W Mather

List of Publications by Year
in descending order

47 papers	7,170 citations	201674 27 h-index	206112 48 g-index
55 all docs	55 docs citations	55 times ranked	6997 citing authors

#	Article	IF	Citations
1	Atypical Molecular Basis for Drug Resistance to Mitochondrial Function Inhibitors in Plasmodium falciparum. Antimicrobial Agents and Chemotherapy, 2021, 65, .	3.2	7
2	Divergent Mitochondrial Ribosomes in Unicellular Parasitic Protozoans. Trends in Parasitology, 2020, 36, 318-321.	3.3	6
3	Genetic ablation of the mitoribosome in the malaria parasite Plasmodium falciparum sensitizes it to antimalarials that target mitochondrial functions. Journal of Biological Chemistry, 2020, 295, 7235-7248.	3.4	23
4	para-Aminobenzoate Synthesis versus Salvage in Malaria Parasites. Trends in Parasitology, 2019, 35, 176-178.	3.3	6
5	Mitochondrial type II NADH dehydrogenase of Plasmodium falciparum (PfNDH2) is dispensable in the asexual blood stages. PLoS ONE, 2019, 14, e0214023.	2.5	29
6	The mitochondrial ribosomal protein L13 is critical for the structural and functional integrity of the mitochondrion in Plasmodium falciparum. Journal of Biological Chemistry, 2018, 293, 8128-8137.	3.4	50
7	Novel Defense Peptides from Platelets Kill Malaria Parasites. Trends in Parasitology, 2018, 34, 729-731.	3.3	6
8	Alkoxycarbonate Ester Prodrugs of Preclinical Drug Candidate ELQ-300 for Prophylaxis and Treatment of Malaria. ACS Infectious Diseases, 2017, 3, 728-735.	3.8	38
9	Functional Profiling of a Plasmodium Genome Reveals an Abundance of Essential Genes. Cell, 2017, 170, 260-272.e8.	28.9	471
10	Caged Garcinia Xanthones, a Novel Chemical Scaffold with Potent Antimalarial Activity. Antimicrobial Agents and Chemotherapy, 2017, 61, .	3.2	15
11	+Targeting Mitochondrial Functions as Antimalarial Regime, What Is Next?. Current Clinical Microbiology Reports, 2017, 4, 175-191.	3.4	12
12	Characterization of a Plasmodium falciparum Orthologue of the Yeast Ubiquinone-Binding Protein, Coq10p. PLoS ONE, 2016, 11, e0152197.	2.5	6
13	ELQ-300 Prodrugs for Enhanced Delivery and Single-Dose Cure of Malaria. Antimicrobial Agents and Chemotherapy, 2015, 59, 5555-5560.	3.2	62
14	Inhibition of Cytochrome bc 1 as a Strategy for Single-Dose, Multi-Stage Antimalarial Therapy. American Journal of Tropical Medicine and Hygiene, 2015, 92, 1195-1201.	1.4	34
15	Genetic Investigation of Tricarboxylic Acid Metabolism during the Plasmodium falciparum Life Cycle. Cell Reports, 2015, 11, 164-174.	6.4	134
16	The Heme Biosynthesis Pathway Is Essential for Plasmodium falciparum Development in Mosquito Stage but Not in Blood Stages. Journal of Biological Chemistry, 2014, 289, 34827-34837.	3.4	133
17	Discovery, Synthesis, and Optimization of Antimalarial 4(1H)-Quinolone-3-Diarylethers. Journal of Medicinal Chemistry, 2014, 57, 3818-3834.	6.4	100
18	Quinolone-3-Diarylethers: A New Class of Antimalarial Drug. Science Translational Medicine, 2013, 5, 177ra37.	12.4	187

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19	Mitochondrial RNA polymerase is an essential enzyme in erythrocytic stages of Plasmodium falciparum. Molecular and Biochemical Parasitology, 2012, 185, 48-51.	1.1	10
20	Variation among Plasmodium falciparum Strains in Their Reliance on Mitochondrial Electron Transport Chain Function. Eukaryotic Cell, 2011, 10, 1053-1061.	3.4	59
21	Comparative genomics of the pathogenic ciliate Ichthyophthirius multifiliis, its free-living relatives and a host species provide insights into adoption of a parasitic lifestyle and prospects for disease control. Genome Biology, 2011, 12, R100.	9.6	102
22	Yeast dihydroorotate dehydrogenase as a new selectable marker for Plasmodium falciparum transfection. Molecular and Biochemical Parasitology, 2011, 177, 29-34.	1.1	94
23	ATP Synthase Complex of Plasmodium falciparum. Journal of Biological Chemistry, 2011, 286, 41312-41322.	3.4	69
24	Hemozoin-free Plasmodium falciparum mitochondria for physiological and drug susceptibility studies. Molecular and Biochemical Parasitology, 2010, 174, 150-153.	1.1	27
25	Branched tricarboxylic acid metabolism in Plasmodium falciparum. Nature, 2010, 466, 774-778.	27.8	111
26	Highly Divergent Mitochondrial ATP Synthase Complexes in Tetrahymena thermophila. PLoS Biology, 2010, 8, e1000418.	5.6	72
27	Mitochondrial Evolution and Functions in Malaria Parasites. Annual Review of Microbiology, 2009, 63, 249-267.	7.3	207
28	Mitochondria in malaria and related parasites: ancient, diverse and streamlined. Journal of Bioenergetics and Biomembranes, 2008, 40, 425-33.	2.3	47
29	The validity of mitochondrial dehydrogenases as antimalarial drug targets. Trends in Parasitology, 2008, 24, 8-9.	3.3	25
30	Mitochondrial Drug Targets in Apicomplexan Parasites. Current Drug Targets, 2007, 8, 49-60.	2.1	100
31	Specific role of mitochondrial electron transport in blood-stage Plasmodium falciparum. Nature, 2007, 446, 88-91.	27.8	441
32	Uncovering the Molecular Mode of Action of the Antimalarial Drug Atovaquone Using a Bacterial System. Journal of Biological Chemistry, 2005, 280, 27458-27465.	3.4	83
33	The inhibition of calcium signaling in T lymphocytes from old mice results from enhanced activation of the mitochondrial permeability transition pore. Mechanisms of Ageing and Development, 2002, 123, 707-724.	4.6	34
34	Genome sequence of the human malaria parasite Plasmodium falciparum. Nature, 2002, 419, 498-511.	27.8	3,881
35	Atovaquone resistance in malaria parasites. Drug Resistance Updates, 2000, 3, 283-287.	14.4	69
36	Intrinsic uncoupling of cytochromecoxidase may cause the maternally inherited mitochondrial diseases MELAS and LHON. FEBS Letters, 1998, 433, 93-97.	2.8	20

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37	Flexibility of the Neck Region of the Rieske Iron-Sulfur Protein Is Functionally Important in the Cytochrome bc 1Complex. Journal of Biological Chemistry, 1998, 273, 27953-27959.	3.4	94
38	The Involvement of Serine 175 and Alanine 185 of Cytochromeb of Rhodobacter sphaeroides Cytochromebc 1 Complex in Interaction with Iron-Sulfur Protein. Journal of Biological Chemistry, 1997, 272, 23722-23728.	3.4	19
39	The Involvement of Threonine 160 of Cytochrome b of Rhodobacter sphaeroides Cytochrome bc1 Complex in Quinone Binding and Interaction with Subunit IV. Journal of Biological Chemistry, 1995, 270, 28668-28675.	3.4	28
40	Molecular Genetic and Protein Chemical Characterization of the Cytochrome ba3 from Thermus thermophilus HB8. Journal of Biological Chemistry, 1995, 270, 20345-20358.	3.4	74
41	An enhanced broad-host-range vector for Gram-negative bacteria: Avoiding tetracycline phototoxicity during the growth of photosynthetic bacteria. Gene, 1995, 156, 85-88.	2.2	25
42	Molecular modeling studies on the proposed NaCl-induced dimerization of Chromatium vinosum high-potential iron protein. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1142, 93-98.	1.0	6
43	Cytochromecaa 3 from the thermophilic bacteriumThermus thermophilus: A member of the heme-copper oxidase superfamily. Journal of Bioenergetics and Biomembranes, 1993, 25, 103-114.	2.3	26
44	[50] Recovery and cloning of genomic DNA fragments from dried agarose gels. Methods in Enzymology, 1993, 218, 695-704.	1.0	7
45	Plasmid-associated aggregation inThermus thermophilus HB8. Plasmid, 1990, 24, 45-56.	1.4	16
46	Respiratory proteins from extremely thermophilic, aerobic bacteria. Biochimica Et Biophysica Acta - Reviews on Bioenergetics, 1986, 853, 153-185.	0.2	85
47	Activation of Pyruvate Oxidase and Interaction with Membrane Components. , 1982, , 83-92.		2