

Michael W Mather

List of Publications by Year in descending order

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Version: 2024-02-01

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	Genome sequence of the human malaria parasite <i>Plasmodium falciparum</i> . <i>Nature</i> , 2002, 419, 498-511.	27.8	3,881
2	Functional Profiling of a <i>Plasmodium</i> Genome Reveals an Abundance of Essential Genes. <i>Cell</i> , 2017, 170, 260-272.e8.	28.9	471
3	Specific role of mitochondrial electron transport in blood-stage <i>Plasmodium falciparum</i> . <i>Nature</i> , 2007, 446, 88-91.	27.8	441
4	Mitochondrial Evolution and Functions in Malaria Parasites. <i>Annual Review of Microbiology</i> , 2009, 63, 249-267.	7.3	207
5	Quinolone-3-Diarylethers: A New Class of Antimalarial Drug. <i>Science Translational Medicine</i> , 2013, 5, 177ra37.	12.4	187
6	Genetic Investigation of Tricarboxylic Acid Metabolism during the <i>Plasmodium falciparum</i> Life Cycle. <i>Cell Reports</i> , 2015, 11, 164-174.	6.4	134
7	The Heme Biosynthesis Pathway Is Essential for <i>Plasmodium falciparum</i> Development in Mosquito Stage but Not in Blood Stages. <i>Journal of Biological Chemistry</i> , 2014, 289, 34827-34837.	3.4	133
8	Branched tricarboxylic acid metabolism in <i>Plasmodium falciparum</i> . <i>Nature</i> , 2010, 466, 774-778.	27.8	111
9	Comparative genomics of the pathogenic ciliate <i>Ichthyophthirius multifiliis</i> , its free-living relatives and a host species provide insights into adoption of a parasitic lifestyle and prospects for disease control. <i>Genome Biology</i> , 2011, 12, R100.	9.6	102
10	Mitochondrial Drug Targets in Apicomplexan Parasites. <i>Current Drug Targets</i> , 2007, 8, 49-60.	2.1	100
11	Discovery, Synthesis, and Optimization of Antimalarial 4(1 <i>H</i>)-Quinolone-3-Diarylethers. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 3818-3834.	6.4	100
12	Flexibility of the Neck Region of the Rieske Iron-Sulfur Protein Is Functionally Important in the Cytochrome bc ₁ Complex. <i>Journal of Biological Chemistry</i> , 1998, 273, 27953-27959.	3.4	94
13	Yeast dihydroorotate dehydrogenase as a new selectable marker for <i>Plasmodium falciparum</i> transfection. <i>Molecular and Biochemical Parasitology</i> , 2011, 177, 29-34.	1.1	94
14	Respiratory proteins from extremely thermophilic, aerobic bacteria. <i>Biochimica Et Biophysica Acta - Reviews on Bioenergetics</i> , 1986, 853, 153-185.	0.2	85
15	Uncovering the Molecular Mode of Action of the Antimalarial Drug Atovaquone Using a Bacterial System. <i>Journal of Biological Chemistry</i> , 2005, 280, 27458-27465.	3.4	83
16	Molecular Genetic and Protein Chemical Characterization of the Cytochrome <i>ba3</i> from <i>Thermus thermophilus</i> HB8. <i>Journal of Biological Chemistry</i> , 1995, 270, 20345-20358.	3.4	74
17	Highly Divergent Mitochondrial ATP Synthase Complexes in <i>Tetrahymena thermophila</i> . <i>PLoS Biology</i> , 2010, 8, e1000418.	5.6	72
18	Atovaquone resistance in malaria parasites. <i>Drug Resistance Updates</i> , 2000, 3, 283-287.	14.4	69

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19	ATP Synthase Complex of Plasmodium falciparum. Journal of Biological Chemistry, 2011, 286, 41312-41322.	3.4	69
20	ELQ-300 Prodrugs for Enhanced Delivery and Single-Dose Cure of Malaria. Antimicrobial Agents and Chemotherapy, 2015, 59, 5555-5560.	3.2	62
21	Variation among Plasmodium falciparum Strains in Their Reliance on Mitochondrial Electron Transport Chain Function. Eukaryotic Cell, 2011, 10, 1053-1061.	3.4	59
22	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
23	Mitochondria in malaria and related parasites: ancient, diverse and streamlined. Journal of Bioenergetics and Biomembranes, 2008, 40, 425-33.	2.3	47
24	Alkoxy carbonate Ester Prodrugs of Preclinical Drug Candidate ELQ-300 for Prophylaxis and Treatment of Malaria. ACS Infectious Diseases, 2017, 3, 728-735.	3.8	38
25	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
26	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
27	Mitochondrial type II NADH dehydrogenase of Plasmodium falciparum (PfNDH2) is dispensable in the asexual blood stages. PLoS ONE, 2019, 14, e0214023.	2.5	29
28	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
29	Hemozoin-free Plasmodium falciparum mitochondria for physiological and drug susceptibility studies. Molecular and Biochemical Parasitology, 2010, 174, 150-153.	1.1	27
30	Cytochrome c _{aa} 3 from the thermophilic bacterium Thermus thermophilus: A member of the heme-copper oxidase superfamily. Journal of Bioenergetics and Biomembranes, 1993, 25, 103-114.	2.3	26
31	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
32	The validity of mitochondrial dehydrogenases as antimalarial drug targets. Trends in Parasitology, 2008, 24, 8-9.	3.3	25
33	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
34	Intrinsic uncoupling of cytochrome c oxidase may cause the maternally inherited mitochondrial diseases MELAS and LHON. FEBS Letters, 1998, 433, 93-97.	2.8	20
35	The Involvement of Serine 175 and Alanine 185 of Cytochrome b of Rhodobacter sphaeroides Cytochrome bc ₁ Complex in Interaction with Iron-Sulfur Protein. Journal of Biological Chemistry, 1997, 272, 23722-23728.	3.4	19
36	Plasmid-associated aggregation in Thermus thermophilus HB8. Plasmid, 1990, 24, 45-56.	1.4	16

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37	Caged Garcinia Xanthonones, a Novel Chemical Scaffold with Potent Antimalarial Activity. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	15
38	+Targeting Mitochondrial Functions as Antimalarial Regime, What Is Next?. <i>Current Clinical Microbiology Reports</i> , 2017, 4, 175-191.	3.4	12
39	Mitochondrial RNA polymerase is an essential enzyme in erythrocytic stages of <i>Plasmodium falciparum</i> . <i>Molecular and Biochemical Parasitology</i> , 2012, 185, 48-51.	1.1	10
40	[50] Recovery and cloning of genomic DNA fragments from dried agarose gels. <i>Methods in Enzymology</i> , 1993, 218, 695-704.	1.0	7
41	Atypical Molecular Basis for Drug Resistance to Mitochondrial Function Inhibitors in <i>Plasmodium falciparum</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	3.2	7
42	Molecular modeling studies on the proposed NaCl-induced dimerization of <i>Chromatium vinosum</i> high-potential iron protein. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993, 1142, 93-98.	1.0	6
43	Novel Defense Peptides from Platelets Kill Malaria Parasites. <i>Trends in Parasitology</i> , 2018, 34, 729-731.	3.3	6
44	para-Aminobenzoate Synthesis versus Salvage in Malaria Parasites. <i>Trends in Parasitology</i> , 2019, 35, 176-178.	3.3	6
45	Divergent Mitochondrial Ribosomes in Unicellular Parasitic Protozoans. <i>Trends in Parasitology</i> , 2020, 36, 318-321.	3.3	6
46	Characterization of a <i>Plasmodium falciparum</i> Orthologue of the Yeast Ubiquinone-Binding Protein, Coq10p. <i>PLoS ONE</i> , 2016, 11, e0152197.	2.5	6
47	Activation of Pyruvate Oxidase and Interaction with Membrane Components. , 1982, , 83-92.		2