Michael K Riscoe

List of Publications by Year
in descending order

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59 papers	4,087 citations	172457 29 h-index	133252 59 g-index
61 all docs	61 docs citations	61 times ranked	4726 citing authors

#	Article	IF	Citations
1	Simple and Inexpensive Fluorescence-Based Technique for High-Throughput Antimalarial Drug Screening. Antimicrobial Agents and Chemotherapy, 2004, 48, 1803-1806.	3.2	977
2	Chemical genetics of Plasmodium falciparum. Nature, 2010, 465, 311-315.	27.8	515
3	Quinolone-3-Diarylethers: A New Class of Antimalarial Drug. Science Translational Medicine, 2013, 5, 177ra37.	12.4	187
4	Endochin-like quinolones are highly efficacious against acute and latent experimental toxoplasmosis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15936-15941.	7.1	173
5	Discovery of dual function acridones as a new antimalarial chemotype. Nature, 2009, 459, 270-273.	27.8	161
6	A Chloroquine-like Molecule Designed to Reverse Resistance inPlasmodium falciparum. Journal of Medicinal Chemistry, 2006, 49, 5623-5625.	6.4	129
7	Antimalarial quinolones: Synthesis, potency, and mechanistic studies. Experimental Parasitology, 2008, 118, 487-497.	1.2	125
8	Discovery, Synthesis, and Optimization of Antimalarial 4(1H)-Quinolone-3-Diarylethers. Journal of Medicinal Chemistry, 2014, 57, 3818-3834.	6.4	100
9	Xanthones as antimalarial agents; studies of a possible mode of action. FEBS Letters, 1997, 409, 67-73.	2.8	95
10	Evaluation and lead optimization of anti-malarial acridones. Experimental Parasitology, 2006, 114, 47-56.	1.2	87
11	Structure of E. coli 5â€²-methylthioadenosine/S-adenosylhomocysteine Nucleosidase Reveals Similarity to the Purine Nucleoside Phosphorylases. Structure, 2001, 9, 941-953.	3.3	77
12	Optimization of endochin-like quinolones for antimalarial activity. Experimental Parasitology, 2011, 127, 545-551.	1.2	76
13	Characterization of RecombinantEschericha coli5â€²-Methylthioadenosine/S-Adenosylhomocysteine Nucleosidase: Analysis of Enzymatic Activity and Substrate Specificity. Biochemical and Biophysical Research Communications, 1996, 228, 724-732.	2.1	74
14	Radical cure of experimental babesiosis in immunodeficient mice using a combination of an endochin-like quinolone and atovaquone. Journal of Experimental Medicine, 2016, 213, 1307-1318.	8.5	74
15	Structural Rationale for the Affinity of Pico- and Femtomolar Transition State Analogues of Escherichia coli 5â€²-Methylthioadenosine/S-Adenosylhomocysteine Nucleosidase. Journal of Biological Chemistry, 2005, 280, 18274-18282.	3.4	71
16	ELQ-300 Prodrugs for Enhanced Delivery and Single-Dose Cure of Malaria. Antimicrobial Agents and Chemotherapy, 2015, 59, 5555-5560.	3.2	62
17	Subtle Changes in Endochin-Like Quinolone Structure Alter the Site of Inhibition within the Cytochrome bc ₁ Complex of Plasmodium falciparum. Antimicrobial Agents and Chemotherapy, 2015, 59, 1977-1982.	3.2	61
18	Arginase Is Essential for Survival of Leishmania donovani Promastigotes but Not Intracellular Amastigotes. Infection and Immunity, 2017, 85, .	2.2	61

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19	Optimization of Xanthones for Antimalarial Activity: the 3,6-Bis-Ï‰-Diethylaminoalkoxyxanthone Series. Antimicrobial Agents and Chemotherapy, 2002, 46, 144-150.	3.2	55
20	? lipoic acid inhibits human T-cell migration: Implications for multiple sclerosis. Journal of Neuroscience Research, 2004, 78, 362-370.	2.9	55
21	Structure of Escherichia coli5â€²-Methylthioadenosine/ S-Adenosylhomocysteine Nucleosidase Inhibitor Complexes Provide Insight into the Conformational Changes Required for Substrate Binding and Catalysis. Journal of Biological Chemistry, 2003, 278, 8761-8770.	3.4	51
22	Atovaquone and ELQ-300 Combination Therapy as a Novel Dual-Site Cytochrome bc ₁ Inhibition Strategy for Malaria. Antimicrobial Agents and Chemotherapy, 2016, 60, 4853-4859.	3.2	50
23	Design, Synthesis, and Evaluation of 10-N-Substituted Acridones as Novel Chemosensitizers in Plasmodium falciparum. Antimicrobial Agents and Chemotherapy, 2007, 51, 4133-4140.	3.2	47
24	Affinity purification of 5-methylthioribose kinase and 5-methylthioadenosine/S-adenosylhomocysteine nucleosidase from Klebsiella pneumoniae. Biochemical Journal, 1996, 317, 285-290.	3.7	42
25	A spectroscopic investigation of the binding interactions between 4,5-dihydroxyxanthone and heme. Journal of Inorganic Biochemistry, 2001, 86, 617-625.	3.5	42
26	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
27	Diphenylether-Modified 1,2-Diamines with Improved Drug Properties for Development against Mycobacterium tuberculosis. ACS Infectious Diseases, 2016, 2, 500-508.	3.8	36
28	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
29	Structural Snapshots of MTA/AdoHcy Nucleosidase Along the Reaction Coordinate Provide Insights into Enzyme and Nucleoside Flexibility During Catalysis. Journal of Molecular Biology, 2005, 352, 559-574.	4.2	33
30	A drug-selected Plasmodium falciparum lacking the need for conventional electron transport. Molecular and Biochemical Parasitology, 2008, 159, 64-68.	1.1	32
31	Targeted Structureâ€“Activity Analysis of Endochin-like Quinolones Reveals Potent Qi and Qo Site Inhibitors of Toxoplasma gondii and Plasmodium falciparum Cytochrome bc₁ and Identifies ELQ-400 as a Remarkably Effective Compound against Acute Experimental Toxoplasmosis. ACS Infectious Diseases, 2018, 4, 1574-1584.	3.8	32
32	Mechanism of action of 5'-methylthioadenosine in S49 cells. Biochemical Pharmacology, 1984, 33, 3639-3643.	4.4	30
33	Mitochondrial type II NADH dehydrogenase of Plasmodium falciparum (PfNDH2) is dispensable in the asexual blood stages. PLoS ONE, 2019, 14, e0214023.	2.5	29
34	Targeting the Cytochrome bc ₁ Complex of Leishmania Parasites for Discovery of Novel Drugs. Antimicrobial Agents and Chemotherapy, 2016, 60, 4972-4982.	3.2	28
35	Hydroxy-anthraquinones as antimalarial agents. Bioorganic and Medicinal Chemistry Letters, 1995, 5, 1927-1932.	2.2	27
36	Mefloquine and psychotomimetics share neurotransmitter receptor and transporter interactions in vitro. Psychopharmacology, 2014, 231, 2771-2783.	3.1	26

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37	Expression, purification, crystallization and preliminary X-ray analysis ofEscherichia coli5â€²-methylthioadenosine/S-adenosylhomocysteine nucleosidase. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 150-152.	2.5	24
38	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
39	Antileishmanial drug development: exploitation of parasite heme dependency. Molecular and Biochemical Parasitology, 2003, 126, 43-49.	1.1	22
40	Synthesis and heme-binding correlation with antimalarial activity of 3,6-bis-(Ï‰-N,N-diethylaminoamyloxy)-4,5-difluoroxanthone. Bioorganic and Medicinal Chemistry, 2008, 16, 1174-1183.	3.0	21
41	Sontochin as a Guide to the Development of Drugs against Chloroquine-Resistant Malaria. Antimicrobial Agents and Chemotherapy, 2012, 56, 3475-3480.	3.2	21
42	Endochin-Like Quinolones Exhibit Promising Efficacy Against Neospora Caninum in vitro and in Experimentally Infected Pregnant Mice. Frontiers in Veterinary Science, 2018, 5, 285.	2.2	17
43	The kinetics of uptake and accumulation of 3,6-bis-Ï‰-diethylamino-amyloxyxanthone by the human malaria parasite Plasmodium falciparum. Molecular and Biochemical Parasitology, 2002, 123, 47-54.	1.1	15
44	Structures of 5-Methylthioribose Kinase Reveal Substrate Specificity and Unusual Mode of Nucleotide Binding. Journal of Biological Chemistry, 2007, 282, 22195-22206.	3.4	15
45	Improving solubility and oral bioavailability of a novel antimalarial prodrug: comparing spray-dried dispersions with self-emulsifying drug delivery systems. Pharmaceutical Development and Technology, 2020, 25, 625-639.	2.4	15
46	Discovery and Structural Optimization of Acridones as Broad-Spectrum Antimalarials. Journal of Medicinal Chemistry, 2019, 62, 3475-3502.	6.4	14
47	Silicate Nephrolithiasis After Ingestion of Supplements Containing Silica Dioxide. American Journal of Kidney Diseases, 2009, 54, 127-130.	1.9	13
48	Crystallization and preliminary X-ray analysis of 5â€²-methylthioribose kinase fromBacillus subtilisandArabidopsis thaliana. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 116-119.	2.5	10
49	Selective killing of the human malaria parasite Plasmodium falciparum by a benzylthiazolium dye. Experimental Parasitology, 2007, 116, 103-110.	1.2	10
50	New Scalable Synthetic Routes to ELQ-300, ELQ-316, and Other Antiparasitic Quinolones. Organic Process Research and Development, 2021, 25, 1841-1852.	2.7	10
51	Substrate Inhibition of Uracil Phosphoribosyltransferase by Uracil Can Account for the Uracil Growth Sensitivity of Leishmania donovani Pyrimidine Auxotrophs. Journal of Biological Chemistry, 2013, 288, 29954-29964.	3.4	9
52	Antiplasmodial evaluation of Anacardium occidentale and alkyl-phenols. Revista Brasileira De Farmacognosia, 2019, 29, 36-39.	1.4	9
53	Endochin-like quinolone-300 and ELQ-316 inhibit Babesia bovis, B. bigemina, B. caballi and Theileria equi. Parasites and Vectors, 2020, 13, 606.	2.5	9
54	White Thrombus Formation in Blood Tubing Lines in a Chronic Hemodialysis Unit. Clinical Journal of the American Society of Nephrology: CJASN, 2008, 3, 382-386.	4.5	7

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55	Lead Optimization of Second-Generation Acridones as Broad-Spectrum Antimalarials. Journal of Medicinal Chemistry, 2020, 63, 6179-6202.	6.4	7
56	Atypical Molecular Basis for Drug Resistance to Mitochondrial Function Inhibitors in Plasmodium falciparum. Antimicrobial Agents and Chemotherapy, 2021, 65, .	3.2	7
57	Robenidine Analogues Are Potent Antimalarials in Drug-Resistant Plasmodium falciparum. ACS Infectious Diseases, 2021, 7, 1956-1968.	3.8	7
58	Synthesis and testing of substituted phenylthioribose analogs against Klebsiella pneumoniae. Bioorganic and Medicinal Chemistry Letters, 1993, 3, 2079-2082.	2.2	5
59	Cyquant cell proliferation assay as a fluorescence-based method for in vitro screening of antimalarial activity. Southeast Asian Journal of Tropical Medicine and Public Health, 2004, 35, 840-4.	1.0	3