Paul D Roepe

List of Publications by Year
in descending order

92 papers	5,476 citations	81743 39 h-index	82410 72 g-index
131 all docs	131 docs citations	131 times ranked	4455 citing authors

#	Article	IF	Citations
1	Evidence for the early emergence of piperaquine-resistant Plasmodium falciparum malaria and modeling strategies to mitigate resistance. PLoS Pathogens, 2022, 18, e1010278.	2.1	13
2	In vitro growth competition experiments that suggest consequences of the substandard artemisinin epidemic that may be accelerating drug resistance in P. falciparum malaria. PLoS ONE, 2021, 16, e0248057.	1.1	7
3	Artemisinin-Based Drugs Target the Plasmodium falciparum Heme Detoxification Pathway. Antimicrobial Agents and Chemotherapy, 2021, 65, .	1.4	13
4	Torin 2 Derivative, NCATS-SM3710, Has Potent Multistage Antimalarial Activity through Inhibition of P. falciparum Phosphatidylinositol 4-Kinase (Pfâ€PI4KIIIÎ²). ACS Pharmacology and Translational Science, 2020, 3, 948-964.	2.5	19
5	Heterologous Expression, Purification, and Functional Analysis of the Plasmodium falciparum Phosphatidylinositol 4-Kinase IIIÎ². Biochemistry, 2020, 59, 2494-2506.	1.2	14
6	Altered Drug Transport by Plasmodium falciparum Chloroquine Resistance Transporter Isoforms Harboring Mutations Associated with Piperaquine Resistance. Biochemistry, 2020, 59, 2484-2493.	1.2	11
7	Artesunate activation by heme in an aqueous medium. Inorganica Chimica Acta, 2019, 496, 119029.	1.2	5
8	An ortholog of Plasmodium falciparum chloroquine resistance transporter (PfCRT) plays a key role in maintaining the integrity of the endolysosomal system in Toxoplasma gondii to facilitate host invasion. PLoS Pathogens, 2019, 15, e1007775.	2.1	20
9	Artemisinin-Based Antimalarial Drug Therapy: Molecular Pharmacology and Evolving Resistance. Tropical Medicine and Infectious Disease, 2019, 4, 89.	0.9	30
10	Structure and drug resistance of the Plasmodium falciparum transporter PfCRT. Nature, 2019, 576, 315-320.	13.7	123
11	Origin and Spread of Evolving Artemisinin-Resistant Plasmodium falciparum Malarial Parasites in Southeast Asia. American Journal of Tropical Medicine and Hygiene, 2019, 101, 1204-1211.	0.6	20
12	Quantification of Free Ferriprotoporphyrin IX Heme and Hemozoin for Artemisinin Sensitive versus Delayed Clearance Phenotype Plasmodium falciparum Malarial Parasites. Biochemistry, 2018, 57, 6927-6934.	1.2	28
13	Dihydroartemisininâ€“Ferriprotoporphyrin IX Adduct Abundance in Plasmodium falciparum Malarial Parasites and the Relationship to Emerging Artemisinin Resistance. Biochemistry, 2018, 57, 6935-6945.	1.2	25
14	Evidence for Regulation of Hemoglobin Metabolism and Intracellular Ionic Flux by the Plasmodium falciparum Chloroquine Resistance Transporter. Scientific Reports, 2018, 8, 13578.	1.6	24
15	PIK-ing New Malaria Chemotherapy. Trends in Parasitology, 2018, 34, 925-927.	1.5	13
16	The Biochemistry of Quinoline Antimalarial Drug Resistance. , 2017, , 289-311.		0
17	Analysis ofPlasmodium vivaxChloroquine Resistance Transporter Mutant Isoforms. Biochemistry, 2017, 56, 5615-5622.	1.2	8
18	Heterologous Expression, Purification, and Functional Analysis of Plasmodium falciparum Phosphatidylinositol 3â€²-Kinase. Biochemistry, 2017, 56, 4335-4345.	1.2	21

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19	Inhibition of Human Class I vs Class III Phosphatidylinositol 3â€²-Kinases. Biochemistry, 2017, 56, 4326-4334.	1.2	7
20	Plasmodium falciparum chloroquine resistance transporter (PfCRT) isoforms PH1 and PH2 perturb vacuolar physiology. Malaria Journal, 2016, 15, 186.	0.8	11
21	Evolution of Fitness Cost-Neutral Mutant PfCRT Conferring P. falciparum 4-Aminoquinoline Drug Resistance Is Accompanied by Altered Parasite Metabolism and Digestive Vacuole Physiology. PLoS Pathogens, 2016, 12, e1005976.	2.1	34
22	High-throughput matrix screening identifies synergistic and antagonistic antimalarial drug combinations. Scientific Reports, 2015, 5, 13891.	1.6	92
23	Functional Comparison of 45 Naturally Occurring Isoforms of the Plasmodium falciparum Chloroquine Resistance Transporter (PfCRT). Biochemistry, 2015, 54, 5083-5094.	1.2	33
24	Determination of the Cytostatic and Cytocidal Activities of Antimalarial Compounds and Their Combination Interactions. Current Protocols in Chemical Biology, 2014, 6, 237-248.	1.7	4
25	The Biochemistry of Quinoline Antimalarial Drug Resistance. , 2014, , 1-20.		0
26	Ã¢â‚¬Å“Drug resistance associated membrane proteinsÃ¢â‚¬Â• Frontiers in Physiology, 2014, 5, 108.	1.3	18
27	To kill or not to kill, that is the question: cytocidal antimalarial drug resistance. Trends in Parasitology, 2014, 30, 130-135.	1.5	18
28	Antiproliferative and Antiplasmodial Dimeric Phloroglucinols from Mallotus oppositifolius from the Madagascar Dry Forest. Journal of Natural Products, 2013, 76, 388-393.	1.5	43
29	Quinoline Drugâ€“Heme Interactions and Implications for Antimalarial Cytostatic versus Cytocidal Activities. Journal of Medicinal Chemistry, 2013, 56, 5231-5246.	2.9	148
30	Function of Resistance Conferring Plasmodium falciparum Chloroquine Resistance Transporter Isoforms. Biochemistry, 2013, 52, 4242-4249.	1.2	39
31	Cytostatic versus cytocidal profiling of quinoline drug combinations via modified fixed-ratio isobologram analysis. Malaria Journal, 2013, 12, 332.	0.8	26
32	UV-triggered Affinity Capture Identifies Interactions between the Plasmodium falciparum Multidrug Resistance Protein 1 (PfMDR1) and Antimalarial Agents in Live Parasitized Cells. Journal of Biological Chemistry, 2013, 288, 22576-22583.	1.6	18
33	Relative to Quinine and Quinidine, Their 9-Epimers Exhibit Decreased Cytostatic Activity and Altered Heme Binding but Similar Cytocidal Activity versus Plasmodium falciparum. Antimicrobial Agents and Chemotherapy, 2013, 57, 365-374.	1.4	19
34	Cytostatic versus Cytocidal Activities of Chloroquine Analogues and Inhibition of Hemozoin Crystal Growth. Antimicrobial Agents and Chemotherapy, 2013, 57, 356-364.	1.4	46
35	A Process Similar to Autophagy Is Associated with Cytocidal Chloroquine Resistance in Plasmodium falciparum. PLoS ONE, 2013, 8, e79059.	1.1	49
36	Autophagy in Apicomplexa: a life sustaining death mechanism?. Trends in Parasitology, 2012, 28, 358-364.	1.5	46

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37	Investigating the activity of quinine analogues versus chloroquine resistant Plasmodium falciparum. Bioorganic and Medicinal Chemistry, 2012, 20, 3292-3297.	1.4	39
38	Autophagy is a cell death mechanism in Toxoplasma gondii. Cellular Microbiology, 2012, 14, 589-607.	1.1	90
39	Analysis of Chloroquine Resistance Transporter (CRT) Isoforms and Orthologues in S. cerevisiae Yeast. Biochemistry, 2011, 50, 6701-6710.	1.2	28
40	PfCRT-Mediated Drug Transport in Malarial Parasites. Biochemistry, 2011, 50, 163-171.	1.2	49
41	Plasmodium falciparum resistance to cytocidal versus cytostatic effects of chloroquine. Molecular and Biochemical Parasitology, 2011, 178, 1-6.	0.5	33
42	Quantification of perchloroethylene residues in dryâ€cleaned fabrics. Environmental Toxicology and Chemistry, 2011, 30, 2481-2487.	2.2	24
43	The hydroxyl functionality and a rigid proximal N are required for forming a novel non-covalent quinine-heme complex. Journal of Inorganic Biochemistry, 2011, 105, 467-475.	1.5	38
44	Purified Plasmodium falciparum multi-drug resistance protein (PfMDR 1) binds a high affinity chloroquine analogue. Molecular and Biochemical Parasitology, 2010, 173, 158-161.	0.5	22
45	Chloroquine susceptibility and reversibility in a Plasmodium falciparum genetic cross. Molecular Microbiology, 2010, 78, 770-787.	1.2	49
46	Molecular and physiologic basis of quinoline drug resistance in Plasmodium falciparum malaria. Future Microbiology, 2009, 4, 441-455.	1.0	50
47	P. falciparum Na+/H+ exchanger (PfNHE) function and quinine resistance (QNR). Molecular and Biochemical Parasitology, 2009, 166, 1-2.	0.5	2
48	Antimalarial drugs and heme in detergent micelles: An NMR study. Journal of Inorganic Biochemistry, 2009, 103, 745-748.	1.5	22
49	Synthesis and antimalarial activity of new 4-amino-7-chloroquinolyl amides, sulfonamides, ureas and thioureas. Bioorganic and Medicinal Chemistry, 2009, 17, 270-283.	1.4	70
50	Reduced Digestive Vacuolar Accumulation of Chloroquine Is Not Linked to Resistance to Chloroquine Toxicity. Biochemistry, 2009, 48, 11152-11154.	1.2	35
51	Chloroquine Transport in Plasmodium falciparum. 1. Influx and Efflux Kinetics for Live Trophozoite Parasites Using a Novel Fluorescent Chloroquine Probe. Biochemistry, 2009, 48, 9471-9481.	1.2	16
52	Chloroquine Transport inPlasmodium falciparum. 2. Analysis of PfCRT-Mediated Drug Transport Using Proteoliposomes and a Fluorescent Chloroquine Probe. Biochemistry, 2009, 48, 9482-9491.	1.2	35
53	Malarial parasite pathogenesis and drug targets. F1000 Biology Reports, 2009, 1, 18.	4.0	0
54	A single S1034C mutation confers altered drug sensitivity to PfMDR1 ATPase activity that is characteristic of the 7G8 isoform. Molecular and Biochemical Parasitology, 2008, 157, 107-111.	0.5	16

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55	Stage independent chloroquine resistance and chloroquine toxicity revealed via spinning disk confocal microscopy. Molecular and Biochemical Parasitology, 2008, 159, 7-23.	0.5	45
56	4-N-, 4-S-, and 4-O-Chloroquine Analogues: Influence of Side Chain Length and Quinolyl Nitrogen pK_a on Activity vs Chloroquine Resistant Malaria. Journal of Medicinal Chemistry, 2008, 51, 3466-3479.	2.9	120
57	Overcoming Drug Resistance to Heme-Targeted Antimalarials by Systematic Side Chain Variation of 7-Chloro-4-aminoquinolines. Journal of Medicinal Chemistry, 2008, 51, 1995-1998.	2.9	56
58	Quinine and Chloroquine Differentially Perturb Heme Monomerâ^'Dimer Equilibrium. Inorganic Chemistry, 2008, 47, 6077-6081.	1.9	44
59	Photoaffinity Labeling of the Plasmodium falciparum Chloroquine Resistance Transporter with a Novel Perfluorophenylazido Chloroquine. Biochemistry, 2008, 47, 10394-10406.	1.2	36
60	Disruption of the Plasmodium falciparum PfPMT Gene Results in a Complete Loss of Phosphatidylcholine Biosynthesis via the Serine-Decarboxylase-Phosphoethanolamine-Methyltransferase Pathway and Severe Growth and Survival Defects. Journal of Biological Chemistry, 2008, 283, 27636-27643.	1.6	75
61	Heterologous Expression and ATPase Activity of Mutant versus Wild Type PfMDR1 Protein. Biochemistry, 2007, 46, 6060-6073.	1.2	21
62	Plasmodium falciparum Na+/H+ exchanger activity and quinine resistance. Molecular and Biochemical Parasitology, 2007, 153, 48-58.	0.5	58
63	Spinning Disk Confocal Microscopy of Live, Intraerythrocytic Malarial Parasites. 1. Quantification of Hemozoin Development for Drug Sensitive versus Resistant Malaria. Biochemistry, 2006, 45, 12400-12410.	1.2	52
64	Spinning Disk Confocal Microscopy of Live, Intraerythrocytic Malarial Parasites. 2. Altered Vacuolar Volume Regulation in Drug Resistant Malaria. Biochemistry, 2006, 45, 12411-12423.	1.2	57
65	Chloroquine-resistant isoforms of the Plasmodium falciparum chloroquine resistance transporter acidify lysosomal pH in HEK293 cells more than chloroquine-sensitive isoforms. Molecular and Biochemical Parasitology, 2006, 150, 288-299.	0.5	20
66	Plasmodium falciparum strain GC-03 exhibits hyper-gametocytogenesis in partially hemoglobin depleted red blood cells. Molecular and Biochemical Parasitology, 2005, 139, 261-265.	0.5	5
67	Novel, Rapid, and Inexpensive Cell-Based Quantification of Antimalarial Drug Efficacy. Antimicrobial Agents and Chemotherapy, 2004, 48, 1807-1810.	1.4	234
68	Drug resistance-associated pfCRT mutations confer decreased Plasmodium falciparum digestive vacuolar pH. Molecular and Biochemical Parasitology, 2004, 133, 99-114.	0.5	119
69	Structure of the Amodiaquineâ^'FPIX Î¼ Oxo Dimer Solution Complex at Atomic Resolution. Inorganic Chemistry, 2004, 43, 8078-8084.	1.9	35
70	The Antimalarial Drug Resistance Protein Plasmodium falciparum Chloroquine Resistance Transporter Binds Chloroquine. Biochemistry, 2004, 43, 8290-8296.	1.2	79
71	Purified Human MDR 1 Modulates Membrane Potential in Reconstituted Proteoliposomes. Biochemistry, 2003, 42, 3544-3555.	1.2	19
72	NMR Studies of Chloroquineâ^'Ferriprotoporphyrin IX Complex. Journal of Physical Chemistry A, 2003, 107, 5821-5825.	1.1	69

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73	Chloroquine Resistance Modulated in Vitro by Expression Levels of the Plasmodium falciparum Chloroquine Resistance Transporter. Journal of Biological Chemistry, 2003, 278, 33593-33601.	1.6	103
74	Analysis of the Antimalarial Drug Resistance Protein Pfcrt Expressed in Yeast. Journal of Biological Chemistry, 2002, 277, 49767-49775.	1.6	70
75	Alternative Mutations at Position 76 of the Vacuolar Transmembrane Protein PfCRT Are Associated with Chloroquine Resistance and Unique Stereospecific Quinine and Quinidine Responses inPlasmodium falciparum. Molecular Pharmacology, 2002, 61, 35-42.	1.0	222
76	Solution Structures of Antimalarial Drugâ˜'Heme Complexesâ€. Biochemistry, 2002, 41, 10245-10255.	1.2	156
77	Chloroquine resistance in the malarial parasite,Plasmodium falciparum. Medicinal Research Reviews, 2002, 22, 465-491.	5.0	97
78	A peptide needle in a signaling haystack. Nature Genetics, 2001, 27, 6-8.	9.4	3
79	Antimalarial drugs influence the pH dependent solubility of heme via apparent nucleation phenomena. Molecular and Biochemical Parasitology, 2001, 112, 11-17.	0.5	48
80	Digestive vacuolar pH of intact intraerythrocytic P. falciparum either sensitive or resistant to chloroquine. Molecular and Biochemical Parasitology, 2000, 110, 107-124.	0.5	115
81	The effects of chloroquine and verapamil on digestive vacuolar pH of P. falciparum either sensitive or resistant to chloroquine. Molecular and Biochemical Parasitology, 2000, 110, 125-134.	0.5	56
82	Mutations in the P. falciparum Digestive Vacuole Transmembrane Protein PfCRT and Evidence for Their Role in Chloroquine Resistance. Molecular Cell, 2000, 6, 861-871.	4.5	1,268
83	What is the Precise Role of Human MDR 1 Protein in Chemotherapeutic Drug Resistance. Current Pharmaceutical Design, 2000, 6, 241-260.	0.9	79
84	Are ion-exchange processes central to understanding drug-resistance phenomena?. Trends in Pharmacological Sciences, 1999, 20, 62-65.	4.0	18
85	Chloroquine Uptake, Altered Partitioning and the Basis of Drug Resistance: Evidence for ChlorideâEDependent Ionic Regulation. Novartis Foundation Symposium, 1999, 226, 265-280.	1.2	6
86	The P-Glycoprotein Efflux Pump: How Does it Transport Drugs?. Journal of Membrane Biology, 1998, 166, 71-72.	1.0	11
87	Biophysical Aspects of P-Glycoprotein-Mediated Multidrug Resistance. International Review of Cytology, 1997, 171, 121-165.	6.2	74
88	Analysis of Ion Transport Perturbations Caused by hu MDR 1 Protein Overexpression. Biochemistry, 1997, 36, 11153-11168.	1.2	43
89	Altered drug translocation mediated by the MDR protein: Direct, indirect, or both?. Journal of Bioenergetics and Biomembranes, 1996, 28, 541-555.	1.0	45
90	Analysis of Drug Transport Kinetics in Multidrug-Resistant Cells Using a Novel Coumarin-Vinblastine Compound. Biochemistry, 1994, 33, 12665-12675.	1.2	24

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91	Lower electrical membrane potential and altered pHi homeostasis in multidrug-resistant (MDR) cells: Further characterization of a series of MDR cell lines expressing different levels of P-glycoprotein. Biochemistry, 1993, 32, 11042-11056.	1.2	128
92	Analysis of the steady-state and initial rate of doxorubicin efflux from a series of multidrug resistant cells expressing different levels of P-glycoprotein. Biochemistry, 1992, 31, 12555-12564.	1.2	103