David A Baker

List of Publications by Year
in descending order

79 papers	5,086 citations	101543 36 h-index	102487 66 g-index
87 all docs	87 docs citations	87 times ranked	3924 citing authors

#	Article	IF	Citations
1	CDC50 Orthologues in Plasmodium falciparum Have Distinct Roles in Merozoite Egress and Trophozoite Maturation. MBio, 2022, 13, .	4.1	5
2	Plasmodium falciparum Guanylyl Cyclase-Alpha and the Activity of Its Appended P4-ATPase Domain Are Essential for cGMP Synthesis and Blood-Stage Egress. MBio, 2021, 12, .	4.1	15
3	Ca ²⁺ signals critical for egress and gametogenesis in malaria parasites depend on a multipass membrane protein that interacts with PKG. Science Advances, 2021, 7, .	10.3	34
4	Malaria Parasite Schizont Egress Antigen-1 Plays an Essential Role in Nuclear Segregation during Schizogony. MBio, 2021, 12, .	4.1	17
5	cAMP signalling and its role in host cell invasion by malaria parasites. Current Opinion in Microbiology, 2020, 58, 69-74.	5.1	14
6	Use of a highly specific kinase inhibitor for rapid, simple and precise synchronization of Plasmodium falciparum and Plasmodium knowlesi asexual blood-stage parasites. PLoS ONE, 2020, 15, e0235798.	2.5	24
7	The Plasmodium falciparum Artemisinin Susceptibility-Associated AP-2 Adaptin Î¼ Subunit is Clathrin Independent and Essential for Schizont Maturation. MBio, 2020, 11, .	4.1	27
8	Differential IL-18 Dependence of Canonical and Adaptive NK Cells for Antibody Dependent Responses to P. falciparum. Frontiers in Immunology, 2020, 11, 533.	4.8	5
9	An enhanced toolkit for the generation of knockout and marker-free fluorescent Plasmodium chabaudi. Wellcome Open Research, 2020, 5, 71.	1.8	23
10	An enhanced toolkit for the generation of knockout and marker-free fluorescent Plasmodium chabaudi. Wellcome Open Research, 2020, 5, 71.	1.8	10
11	Simultaneous multiple allelic replacement in the malaria parasite enables dissection of PKG function. Life Science Alliance, 2020, 3, e201900626.	2.8	27
12	Targeting the Malaria Parasite cGMP-Dependent Protein Kinase to Develop New Drugs. Frontiers in Microbiology, 2020, 11, 602803.	3.5	17
13	Potent bicyclic inhibitors of malarial cGMP-dependent protein kinase: approaches to combining improvements in cell potency, selectivity and structural novelty. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 126610.	2.2	11
14	Antimalarial activity of primaquine operates via a two-step biochemical relay. Nature Communications, 2019, 10, 3226.	12.8	94
15	An analysis of large structural variation in global Plasmodium falciparum isolates identifies a novel duplication of the chloroquine resistance associated gene. Scientific Reports, 2019, 9, 8287.	3.3	8
16	Development of Chemical Entities Endowed with Potent Fast-Killing Properties against Plasmodium falciparum Malaria Parasites. Journal of Medicinal Chemistry, 2019, 62, 9217-9235.	6.4	26
17	Structures of the cGMP-dependent protein kinase in malaria parasites reveal a unique structural relay mechanism for activation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14164-14173.	7.1	30
18	Cyclic AMP signalling controls key components of malaria parasite host cell invasion machinery. PLoS Biology, 2019, 17, e3000264.	5.6	64

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19	High-throughput screening of the Plasmodium falciparum cGMP-dependent protein kinase identified a thiazole scaffold which kills erythrocytic and sexual stage parasites. Scientific Reports, 2019, 9, 7005.	3.3	40
20	Phosphodiesterase beta is the master regulator of cAMP signalling during malaria parasite invasion. PLoS Biology, 2019, 17, e3000154.	5.6	38
21	Potent inhibitors of malarial P. Falciparum protein kinase G: Improving the cell activity of a series of imidazopyridines. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 509-514.	2.2	12
22	Rapid and iterative genome editing in the malaria parasite Plasmodium knowlesi provides new tools for P. vivax research. ELife, 2019, 8, .	6.0	61
23	Probabilistic data integration identifies reliable gametocyte-specific proteins and transcripts in malaria parasites. Scientific Reports, 2018, 8, 410.	3.3	39
24	The Actinomyosin Motor Drives Malaria Parasite Red Blood Cell Invasion but Not Egress. MBio, 2018, 9, .	4.1	63
25	Epistasis studies reveal redundancy among calcium-dependent protein kinases in motility and invasion of malaria parasites. Nature Communications, 2018, 9, 4248.	12.8	50
26	Global genetic diversity of var2csa in Plasmodium falciparum with implications for malaria in pregnancy and vaccine development. Scientific Reports, 2018, 8, 15429.	3.3	35
27	Trisubstituted thiazoles as potent and selective inhibitors of Plasmodium falciparum protein kinase G (PfPKG). Bioorganic and Medicinal Chemistry Letters, 2018, 28, 3168-3173.	2.2	25
28	Plasmodium falciparum CRK4 directs continuous rounds of DNA replication during schizogony. Nature Microbiology, 2017, 2, 17017.	13.3	79
29	A potent series targeting the malarial cGMP-dependent protein kinase clears infection and blocks transmission. Nature Communications, 2017, 8, 430.	12.8	110
30	Cyclic nucleotide signalling in malaria parasites. Open Biology, 2017, 7, 170213.	3.6	62
31	Genomic variation in two gametocyte non-producing Plasmodium falciparum clonal lines. Malaria Journal, 2016, 15, 229.	2.3	18
32	Imidazopyridazine Inhibitors of Plasmodium falciparum Calcium-Dependent Protein Kinase 1 Also Target Cyclic GMP-Dependent Protein Kinase and Heat Shock Protein 90 To Kill the Parasite at Different Stages of Intracellular Development. Antimicrobial Agents and Chemotherapy, 2016, 60, 1464-1475.	3.2	52
33	Phosphoantigen Burst upon Plasmodium falciparum Schizont Rupture Can Distantly Activate VÎ³9VÎ´2 T Cells. Infection and Immunity, 2015, 83, 3816-3824.	2.2	34
34	The Mu Subunit of Plasmodium falciparum Clathrin-Associated Adaptor Protein 2 Modulates In Vitro Parasite Response to Artemisinin and Quinine. Antimicrobial Agents and Chemotherapy, 2015, 59, 2540-2547.	3.2	42
35	cAMP-Signalling Regulates Gametocyte-Infected Erythrocyte Deformability Required for Malaria Parasite Transmission. PLoS Pathogens, 2015, 11, e1004815.	4.7	60
36	Phosphoproteomics reveals malaria parasite Protein Kinase G as a signalling hub regulating egress and invasion. Nature Communications, 2015, 6, 7285.	12.8	153

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37	Crystal Structures of the Carboxyl cGMP Binding Domain of the Plasmodium falciparum cGMP-dependent Protein Kinase Reveal a Novel Capping Triad Crucial for Merozoite Egress. PLoS Pathogens, 2015, 11, e1004639.	4.7	24
38	Development of a Transgenic Plasmodium berghei Line (Pbpfpkg) Expressing the P. falciparum cGMP-Dependent Protein Kinase, a Novel Antimalarial Drug Target. PLoS ONE, 2014, 9, e96923.	2.5	5
39	Phosphoinositide Metabolism Links cGMP-Dependent Protein Kinase G to Essential Ca2+ Signals at Key Decision Points in the Life Cycle of Malaria Parasites. PLoS Biology, 2014, 12, e1001806.	5.6	185
40	Malaria Parasite Epigenetics: When Virulence and Romance Collide. Cell Host and Microbe, 2014, 16, 148-150.	11.0	1
41	Targeting Plasmodium falciparum protein kinases with adenosine analogueâ€“oligoarginine conjugates. Experimental Parasitology, 2014, 138, 55-62.	1.2	7
42	A transcriptional switch underlies commitment to sexual development in malaria parasites. Nature, 2014, 507, 248-252.	27.8	430
43	Malaria Parasite cGMP-dependent Protein Kinase Regulates Blood Stage Merozoite Secretory Organelle Discharge and Egress. PLoS Pathogens, 2013, 9, e1003344.	4.7	225
44	The role of cGMP signalling in regulating life cycle progression ofÂPlasmodium. Microbes and Infection, 2012, 14, 831-837.	1.9	40
45	Spatiotemporal and Functional Characterisation of the Plasmodium falciparum cGMP-Dependent Protein Kinase. PLoS ONE, 2012, 7, e48206.	2.5	22
46	Cyclic nucleotide signalling in malaria parasites. Cellular Microbiology, 2011, 13, 331-339.	2.1	31
47	Malaria gametocytogenesis. Molecular and Biochemical Parasitology, 2010, 172, 57-65.	1.1	197
48	The Malaria Parasite Cyclic GMP-Dependent Protein Kinase Plays a Central Role in Blood-Stage Schizogony. Eukaryotic Cell, 2010, 9, 37-45.	3.4	174
49	A Plant-Like Kinase in Plasmodium falciparum Regulates Parasite Egress from Erythrocytes. Science, 2010, 328, 910-912.	12.6	263
50	A Cyclic GMP Signalling Module That Regulates Gliding Motility in a Malaria Parasite. PLoS Pathogens, 2009, 5, e1000599.	4.7	171
51	A unique phosphatidylinositol 4-phosphate 5-kinase is activated by ADP-ribosylation factor in Plasmodium falciparum. International Journal for Parasitology, 2009, 39, 645-653.	3.1	35
52	The role of the cGMP-dependent protein kinase in development of the malaria parasite. BMC Pharmacology, 2009, 9, S2.	0.4	0
53	Structure and nonâ€essential function of glycerol kinase in Plasmodium falciparum blood stages. Molecular Microbiology, 2009, 71, 533-545.	2.5	27
54	Disruption of a Plasmodium falciparum cyclic nucleotide phosphodiesterase gene causes aberrant gametogenesis. Molecular Microbiology, 2008, 69, 110-118.	2.5	75

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55	Gametogenesis in Malaria Parasites Is Mediated by the cGMP-Dependent Protein Kinase. PLoS Biology, 2008, 6, e139.	5.6	203
56	Improved synchronous production of Plasmodium falciparum gametocytes in vitro. Molecular and Biochemical Parasitology, 2007, 154, 119-123.	1.1	200
57	Evidence on the chromosomal location of centromeric DNA in Plasmodium falciparum from etoposide-mediated topoisomerase-II cleavage. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6706-6711.	7.1	49
58	Programmed Transcription of the var Gene Family, but Not of stevor , in Plasmodium falciparum Gametocytes. Eukaryotic Cell, 2006, 5, 1206-1214.	3.4	63
59	The Plasmodium falciparum sexual development transcriptome: A microarray analysis using ontology-based pattern identification. Molecular and Biochemical Parasitology, 2005, 143, 67-79.	1.1	295
60	Cyclic GMP-dependent protein kinases in protozoa. Frontiers in Bioscience - Landmark, 2005, 10, 1229.	3.0	19
61	Structure, function and evolution of microbial adenylyl and guanylyl cyclases. Molecular Microbiology, 2004, 52, 1229-1242.	2.5	116
62	Purine nucleotide cyclases in the malaria parasite. Trends in Parasitology, 2004, 20, 227-232.	3.3	27
63	Adenylyl and Guanylyl Cyclases from the Malaria Parasite Plasmodium falciparum. IUBMB Life, 2004, 56, 535-540.	3.4	24
64	Multiple Splice Variants Encode a Novel Adenylyl Cyclase of Possible Plastid Origin Expressed in the Sexual Stage of the Malaria Parasite Plasmodium falciparum. Journal of Biological Chemistry, 2003, 278, 22014-22022.	3.4	61
65	The role of two novel regulatory sites in the activation of the cGMP-dependent protein kinase from Plasmodium falciparum. Biochemical Journal, 2003, 374, 559-565.	3.7	50
66	A novel cyclic GMP-dependent protein kinase is expressed in the ring stage of the Plasmodium falciparum life cycle. Molecular Microbiology, 2002, 44, 1141-1151.	2.5	63
67	The gametocyte-activating factor xanthurenic acid stimulates an increase in membrane-associated guanylyl cyclase activity in the human malaria parasite Plasmodium falciparum. Molecular Microbiology, 2001, 42, 553-560.	2.5	80
68	Primary structure and sexual stage-specific expression of a LAMMER protein kinase of Plasmodium falciparum. International Journal for Parasitology, 2001, 31, 387-392.	3.1	18
69	Sexual stage-specific expression of a third calcium-dependent protein kinase from Plasmodium falciparum. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2000, 1491, 341-349.	2.4	42
70	Guanylyl Cyclase Activity Associated with Putative Bifunctional Integral Membrane Proteins in Plasmodium falciparum. Journal of Biological Chemistry, 2000, 275, 22147-22156.	3.4	84
71	Trypanosoma cruzi adenylyl cyclase is encoded by a complex multigene family. Molecular and Biochemical Parasitology, 1999, 104, 205-217.	1.1	47
72	A Family of PP2 Phosphatases in Plasmodium falciparum and Parasitic Protozoa: Reply. Parasitology Today, 1999, 15, 124.	3.0	4

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73	A putative protein serine/threonine phosphatase from Plasmodium falciparum contains a large N-terminal extension and five unique inserts in the catalytic domain. Molecular and Biochemical Parasitology, 1998, 95, 287-295.	1.1	41
74	Protein Phosphatase beta, a Putative Type-2A Protein Phosphatase from the Human Malaria Parasite Plasmodium Falciparum. FEBS Journal, 1997, 249, 98-106.	0.2	39
75	Geographical distribution of a variant epitope of Pfs4845, a Plasmodium falciparum transmission-blocking vaccine candidate. Molecular and Biochemical Parasitology, 1996, 81, 253-257.	1.1	31
76	Pfmrk, A MO15-Related Protein Kinase from Plasmodium falciparum. Gene Cloning, Sequence, Stage-Specific Expression and Chromosome Localization. FEBS Journal, 1996, 241, 805-813.	0.2	58
77	Sexual-stage-specific RNA expression of a new Plasmodium falciparum gene detected by in situ hybridisation. Molecular and Biochemical Parasitology, 1995, 72, 193-201.	1.1	23
78	Sequence coding for a sexual stage specific protein ofPlasmodium falciparum. Nucleic Acids Research, 1990, 18, 3637-3637.	14.5	19
79	Segmented Î±-helical coiled-coil structure of the protein giardin from the Giardia cytoskeleton. Journal of Molecular Biology, 1988, 204, 789-795.	4.2	89