Photini Sinnis

List of Publications by Year
in descending order

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93 papers	5,985 citations	57752 44 h-index	82542 72 g-index
100 all docs	100 docs citations	100 times ranked	4956 citing authors

#	Article	IF	Citations
1	The basolateral domain of the hepatocyte plasma membrane bears receptors for the circumsporozoite protein of plasmodium falciparum sporozoites. Cell, 1992, 70, 1021-1033.	28.9	349
2	The Fatty Acid Biosynthesis Enzyme FabI Plays a Key Role in the Development of Liver-Stage Malarial Parasites. Cell Host and Microbe, 2008, 4, 567-578.	11.0	273
3	The malaria circumsporozoite protein has two functional domains, each with distinct roles as sporozoites journey from mosquito to mammalian host. Journal of Experimental Medicine, 2011, 208, 341-356.	8.5	266
4	A human monoclonal antibody prevents malaria infection by targeting a new site of vulnerability on the parasite. Nature Medicine, 2018, 24, 408-416.	30.7	235
5	Heparan Sulfate Proteoglycans Provide a Signal to Plasmodium Sporozoites to Stop Migrating and Productively Invade Host Cells. Cell Host and Microbe, 2007, 2, 316-327.	11.0	221
6	Plasmodium sporozoites trickle out of the injection site. Cellular Microbiology, 2007, 9, 1215-1222.	2.1	189
7	The Plasmodium circumsporozoite protein is proteolytically processed during cell invasion. Journal of Experimental Medicine, 2005, 201, 27-33.	8.5	182
8	Quantitative Dynamics of Plasmodium yoelii Sporozoite Transmission by Infected Anopheline Mosquitoes. Infection and Immunity, 2005, 73, 4363-4369.	2.2	177
9	Total and Putative Surface Proteomics of Malaria Parasite Salivary Gland Sporozoites. Molecular and Cellular Proteomics, 2013, 12, 1127-1143.	3.8	168
10	Proteasome Inhibitors Block Development of Plasmodium spp. Antimicrobial Agents and Chemotherapy, 1998, 42, 2731-2738.	3.2	159
11	Interrogating the Plasmodium Sporozoite Surface: Identification of Surface-Exposed Proteins and Demonstration of Glycosylation on CSP and TRAP by Mass Spectrometry-Based Proteomics. PLoS Pathogens, 2016, 12, e1005606.	4.7	159
12	Antimalarial Activity of Allicin, a Biologically Active Compound from Garlic Cloves. Antimicrobial Agents and Chemotherapy, 2006, 50, 1731-1737.	3.2	116
13	The Binding of the Circumsporozoite Protein to Cell Surface Heparan Sulfate Proteoglycans Is Required for PlasmodiumSporozoite Attachment to Target Cells. Journal of Biological Chemistry, 2001, 276, 26784-26791.	3.4	115
14	Malaria in India: The Center for the Study of Complex Malaria in India. Acta Tropica, 2012, 121, 267-273.	2.0	115
15	Longitudinal analysis of Plasmodium sporozoite motility in the dermis reveals component of blood vessel recognition. ELife, 2015, 4, .	6.0	109
16	The Plasmodium TRAP/MIC2 family member, TRAP-Like Protein (TLP), is involved in tissue traversal by sporozoites. Cellular Microbiology, 2008, 10, 1505-1516.	2.1	104
17	Shedding of TRAP by a Rhomboid Protease from the Malaria Sporozoite Surface Is Essential for Gliding Motility and Sporozoite Infectivity. PLoS Pathogens, 2012, 8, e1002725.	4.7	98
18	Dendritic Cells and Hepatocytes Use Distinct Pathways to Process Protective Antigen from Plasmodium in vivo. PLoS Pathogens, 2011, 7, e1001318.	4.7	97

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19	Model forIn VivoAssessment of Humoral Protection against Malaria Sporozoite Challenge by Passive Transfer of Monoclonal Antibodies and Immune Serum. Infection and Immunity, 2014, 82, 808-817.	2.2	96
20	Lymph-Node Resident CD8Î±+ Dendritic Cells Capture Antigens from Migratory Malaria Sporozoites and Induce CD8+ T Cell Responses. PLoS Pathogens, 2015, 11, e1004637.	4.7	96
21	Plasmodium sporozoiteâ€“host interactions from the dermis to the hepatocyte. Current Opinion in Microbiology, 2009, 12, 401-407.	5.1	95
22	Transcriptomics and proteomics reveal two waves of translational repression during the maturation of malaria parasite sporozoites. Nature Communications, 2019, 10, 4964.	12.8	94
23	Anopheles stephensi salivary glands bear receptors for region I of the circumsporozoite protein of Plasmodium falciparum. Molecular and Biochemical Parasitology, 1997, 90, 33-41.	1.1	85
24	Proteolytic Cleavage of thePlasmodium falciparumCircumsporozoite Protein Is a Target of Protective Antibodies. Journal of Infectious Diseases, 2015, 212, 1111-1119.	4.0	83
25	Changes in genome organization of parasite-specific gene families during the Plasmodium transmission stages. Nature Communications, 2018, 9, 1910.	12.8	82
26	Sterile Protection against Malaria Is Independent of Immune Responses to the Circumsporozoite Protein. PLoS ONE, 2007, 2, e1371.	2.5	81
27	Vaccination with LivePlasmodium yoeliiBlood Stage Parasites under Chloroquine Cover Induces Cross-Stage Immunity against Malaria Liver Stage. Journal of Immunology, 2008, 181, 8552-8558.	0.8	79
28	When Is a Plasmodium-Infected Mosquito an Infectious Mosquito?. Trends in Parasitology, 2020, 36, 705-716.	3.3	75
29	Platelet Factor 4 Activity against P.Âfalciparum and Its Translation to Nonpeptidic Mimics as Antimalarials. Cell Host and Microbe, 2012, 12, 815-823.	11.0	71
30	The skin: where malaria infection and the host immune response begin. Seminars in Immunopathology, 2012, 34, 787-792.	6.1	70
31	Cell invasion by the vertebrate stages of Plasmodium. Trends in Microbiology, 1997, 5, 52-58.	7.7	67
32	Mosquito Heparan Sulfate and Its Potential Role in Malaria Infection and Transmission. Journal of Biological Chemistry, 2007, 282, 25376-25384.	3.4	67
33	Attenuated Plasmodium yoelii lacking purine nucleoside phosphorylase confer protective immunity. Nature Medicine, 2008, 14, 954-958.	30.7	66
34	A long and winding road: The Plasmodium sporozoite's journey in the mammalian host. Parasitology International, 2007, 56, 171-178.	1.3	65
35	Active migration and passive transport of malaria parasites. Trends in Parasitology, 2015, 31, 357-362.	3.3	65
36	Comparative 3D genome organization in apicomplexan parasites. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3183-3192.	7.1	65

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37	The Plasmodium circumsporozoite protein is involved in mosquito salivary gland invasion by sporozoites. Molecular and Biochemical Parasitology, 2004, 133, 53-59.	1.1	61
38	Integrating transcriptomic and proteomic data for accurate assembly and annotation of genomes. Genome Research, 2017, 27, 133-144.	5.5	60
39	HIV Protease Inhibitors Inhibit the Development of Preerythrocytic-StagePlasmodiumParasites. Journal of Infectious Diseases, 2009, 199, 134-141.	4.0	59
40	Reversible Conformational Change in the Plasmodium falciparum Circumsporozoite Protein Masks Its Adhesion Domains. Infection and Immunity, 2015, 83, 3771-3780.	2.2	59
41	Cell Adhesion to a Motif Shared by the Malaria Circumsporozoite Protein and Thrombospondin Is Mediated by Its Glycosaminoglycan-binding Region and Not by CSVTCG. Journal of Biological Chemistry, 1997, 272, 19205-19213.	3.4	54
42	Antibody-Mediated Protection against Plasmodium Sporozoites Begins at the Dermal Inoculation Site. MBio, 2018, 9, .	4.1	53
43	The Repeat Region of the Circumsporozoite Protein is Critical for Sporozoite Formation and Maturation in Plasmodium. PLoS ONE, 2014, 9, e113923.	2.5	51
44	Structure-based Design of Novel Small-Molecule Inhibitors of Plasmodium falciparum. Journal of Chemical Information and Modeling, 2010, 50, 840-849.	5.4	49
45	Experimental determination of the force of malaria infection reveals a non-linear relationship to mosquito sporozoite loads. PLoS Pathogens, 2020, 16, e1008181.	4.7	49
46	Cell surface glycosaminoglycans are not obligatory for Plasmodium berghei sporozoite invasion in vitro. Molecular and Biochemical Parasitology, 1996, 76, 257-266.	1.1	48
47	Extrahepatic Exoerythrocytic Forms of Rodent Malaria Parasites at the Site of Inoculation: Clearance after Immunization, Susceptibility to Primaquine, and Contribution to Blood-Stage Infection. Infection and Immunity, 2012, 80, 2158-2164.	2.2	41
48	Alpha-vâ€“containing integrins are host receptors for the Plasmodium falciparum sporozoite surface protein, TRAP. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4477-4482.	7.1	41
49	A mosquito salivary gland protein partially inhibits Plasmodium sporozoite cell traversal and transmission. Nature Communications, 2018, 9, 2908.	12.8	40
50	Sporozoite Antigens: Biology and Immunology of the Circumsporozoite Protein and Thrombospondin-Related Anonymous Protein. , 2002, 80, 70-96.		38
51	A Host GPCR Signaling Network Required for the Cytolysis of Infected Cells Facilitates Release of Apicomplexan Parasites. Cell Host and Microbe, 2013, 13, 15-28.	11.0	37
52	A key role for lipoic acid synthesis duringPlasmodiumliver stage development. Cellular Microbiology, 2013, 15, 1585-1604.	2.1	36
53	Quantification of Sporozoite Invasion, Migration, and Development by Microscopy and Flow Cytometry. Methods in Molecular Biology, 2012, 923, 385-400.	0.9	35
54	The innate and adaptive response to mosquito saliva and Plasmodium sporozoites in the skin. Annals of the New York Academy of Sciences, 2015, 1342, 37-43.	3.8	34

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55	The skin stage of malaria infection: biology and relevance to the malaria vaccine effort. Future Microbiology, 2008, 3, 275-278.	2.0	32
56	Transcriptional heterogeneity and tightly regulated changes in gene expression during Plasmodium berghei sporozoite development. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	32
57	High Mobility Group Protein HMGB2 Is a Critical Regulator of Plasmodium Oocyst Development. Journal of Biological Chemistry, 2008, 283, 17030-17038.	3.4	31
58	Evidence That Mutant PfCRT Facilitates the Transmission to Mosquitoes of Chloroquine-Treated Plasmodium Gametocytes. Journal of Infectious Diseases, 2011, 203, 228-236.	4.0	31
59	Deletion of the rodent malaria ortholog for falcipain-1 highlights differences between hepatic and blood stage merozoites. PLoS Pathogens, 2017, 13, e1006586.	4.7	31
60	Important Extracellular Interactions between Plasmodium Sporozoites and Host Cells Required for Infection. Trends in Parasitology, 2019, 35, 129-139.	3.3	30
61	Proteomic Analysis of Plasmodium Merosomes: The Link between Liver and Blood Stages in Malaria. Journal of Proteome Research, 2019, 18, 3404-3418.	3.7	29
62	Apolipoproteinâ€ƒEâ€derived antimicrobial peptide analogues with altered membrane affinity and increased potency and breadth of activity. FEBS Journal, 2007, 274, 4511-4525.	4.7	28
63	Plasmodium Protease ROM1 Is Important for Proper Formation of the Parasitophorous Vacuole. PLoS Pathogens, 2011, 7, e1002197.	4.7	28
64	Plasmodium falciparum Gametocyte Culture and Mosquito Infection Through Artificial Membrane Feeding. Journal of Visualized Experiments, 2020, , .	0.3	28
65	Generation of Transmission-Competent Human Malaria Parasites with Chromosomally-Integrated Fluorescent Reporters. Scientific Reports, 2019, 9, 13131.	3.3	22
66	A Cysteine Protease Inhibitor of Plasmodium berghei Is Essential for Exo-erythrocytic Development. PLoS Pathogens, 2014, 10, e1004336.	4.7	21
67	Functional human IgA targets a conserved site on malaria sporozoites. Science Translational Medicine, 2021, 13, .	12.4	21
68	Inhibition by stabilization: targeting the Plasmodium falciparum aldolaseâ€“TRAP complex. Malaria Journal, 2015, 14, 324.	2.3	20
69	Plasmodium falciparum histidine-rich protein II causes vascular leakage and exacerbates experimental cerebral malaria in mice. PLoS ONE, 2017, 12, e0177142.	2.5	19
70	Comparative intravital imaging of human and rodent malaria sporozoites reveals the skin is not a speciesâ€specific barrier. EMBO Molecular Medicine, 2021, 13, e11796.	6.9	18
71	Palmitoyl transferases have critical roles in the development of mosquito and liver stages ofPlasmodium. Cellular Microbiology, 2016, 18, 1625-1641.	2.1	17
72	The RTS,S vaccineâ€”a chance to regain the upper hand against malaria?. Cell, 2022, 185, 750-754.	28.9	17

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73	Transgenic Plasmodium berghei sporozoites expressing Î²-galactosidase for quantification of sporozoite transmission. Molecular and Biochemical Parasitology, 2006, 146, 30-37.	1.1	16
74	Host biotin is required for liver stage development in malaria parasites. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2604-E2613.	7.1	16
75	The Plasmodium PHIST and RESA-Like Protein Families of Human and Rodent Malaria Parasites. PLoS ONE, 2016, 11, e0152510.	2.5	15
76	The fibrinolytic system enables the onset of Plasmodium infection in the mosquito vector and the mammalian host. Science Advances, 2021, 7, .	10.3	14
77	CO-Opting the Host HO-1 Pathway in Tuberculosis and Malaria. Cell Host and Microbe, 2008, 3, 277-279.	11.0	10
78	Furuncular myiasis caused by Dermatobia hominis in a returning traveler. American Journal of Tropical Medicine and Hygiene, 2007, 76, 598-9.	1.4	10
79	An immunoradiometric assay for the quantification of Plasmodium sporozoite invasion of HepG2 cells. Journal of Immunological Methods, 1998, 221, 17-23.	1.4	8
80	Plasmodium sporozoites invade cells with targeted deletions in the LDL receptor related protein. Molecular and Biochemical Parasitology, 2000, 106, 293-298.	1.1	8
81	Plasmodium yoelii Sporozoites Infect CD36-Deficient Mice. Experimental Parasitology, 2002, 100, 12-16.	1.2	8
82	Primaquine-thiazolidinones block malaria transmission and development of the liver exoerythrocytic forms. Malaria Journal, 2017, 16, 110.	2.3	7
83	In vivo compartmental kinetics of Plasmodium falciparum histidine-rich protein II in the blood of humans and in BALB/c mice infected with a transgenic Plasmodium berghei parasite expressing histidine-rich protein II. Malaria Journal, 2019, 18, 78.	2.3	7
84	Plasmodium sporozoites trickle out of the injection site. Cellular Microbiology, 2007, 9, 2093-2093.	2.1	5
85	Robust fluorescent labelling of micropipettes for use in fluorescence microscopy: application to the observation of a mosquito borne parasite infection. Journal of Microscopy, 2018, 269, 78-84.	1.8	4
86	What can we learn from an unnatural immune response?. Trends in Parasitology, 2010, 26, 319-321.	3.3	0
87	Reply to Vanderberg, â€œFurther Mechanisms and Locations in Which Antisporozoite Antibodies Neutralize Malaria Sporozoitesâ€• MBio, 2019, 10, .	4.1	0
88	Probing the necessity of the lipoate cofactor in Plasmodium. FASEB Journal, 2015, 29, LB84.	0.5	0
89	Addendum: Transcriptomics and proteomics reveal two waves of translational repression during the maturation of malaria parasite sporozoites. Nature Communications, 2022, 13, 283.	12.8	0
90	Title is missing!. , 2020, 16, e1008181.		0

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91	Title is missing!. , 2020, 16, e1008181.		0
92	Title is missing!. , 2020, 16, e1008181.		0
93	Title is missing!. , 2020, 16, e1008181.		0