Photini Sinnis

List of Publications by Citations

94 papers	4,471 citations	40 h-index	65 g-index
100 ext. papers	5,450 ext. citations	9.5 avg, IF	5.26 L-index

#	Paper	IF	Citations
94	The basolateral domain of the hepatocyte plasma membrane bears receptors for the circumsporozoite protein of Plasmodium falciparum sporozoites. *Cell*, **1992**, 70, 1021-33	56.2	296
93	The fatty acid biosynthesis enzyme FabI plays a key role in the development of liver-stage malarial parasites. *Cell Host and Microbe*, **2008**, 4, 567-78	23.4	225
92	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, 341-56	16.6	191
91	Heparan sulfate proteoglycans provide a signal to Plasmodium sporozoites to stop migrating and productively invade host cells. *Cell Host and Microbe*, **2007**, 2, 316-27	23.4	188
90	Plasmodium sporozoites trickle out of the injection site. *Cellular Microbiology*, **2007**, 9, 1215-22	3.9	150
89	The Plasmodium circumsporozoite protein is proteolytically processed during cell invasion. *Journal of Experimental Medicine*, **2005**, 201, 27-33	16.6	150
88	Quantitative dynamics of Plasmodium yoelii sporozoite transmission by infected anopheline mosquitoes. *Infection and Immunity*, **2005**, 73, 4363-9	3.7	147
87	Proteasome inhibitors block development of Plasmodium spp. *Antimicrobial Agents and Chemotherapy*, **1998**, 42, 2731-8	5.9	141
86	A human monoclonal antibody prevents malaria infection by targeting a new site of vulnerability on the parasite. *Nature Medicine*, **2018**, 24, 408-416	50.5	136
85	Total and putative surface proteomics of malaria parasite salivary gland sporozoites. *Molecular and Cellular Proteomics*, **2013**, 12, 1127-43	7.6	132
84	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	7.6	105
83	The binding of the circumsporozoite protein to cell surface heparan sulfate proteoglycans is required for plasmodium sporozoite attachment to target cells. *Journal of Biological Chemistry*, **2001**, 276, 26784-91	5.4	100
82	Malaria in India: the center for the study of complex malaria in India. *Acta Tropica*, **2012**, 121, 267-73	3.2	97
81	Antimalarial activity of allicin, a biologically active compound from garlic cloves. *Antimicrobial Agents and Chemotherapy*, **2006**, 50, 1731-7	5.9	93
80	The Plasmodium TRAP/MIC2 family member, TRAP-Like Protein (TLP), is involved in tissue traversal by sporozoites. *Cellular Microbiology*, **2008**, 10, 1505-16	3.9	87
79	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	7.6	80
78	Dendritic cells and hepatocytes use distinct pathways to process protective antigen from plasmodium in vivo. *PLoS Pathogens*, **2011**, 7, e1001318	7.6	77

77	Anopheles stephensi salivary glands bear receptors for region I of the circumsporozoite protein of Plasmodium falciparum. *Molecular and Biochemical Parasitology*, **1997**, 90, 33-41	1.9	77
76	Lymph-node resident CD8⊞ dendritic cells capture antigens from migratory malaria sporozoites and induce CD8+ T cell responses. *PLoS Pathogens*, **2015**, 11, e1004637	7.6	76
75	Vaccination with live Plasmodium yoelii blood stage parasites under chloroquine cover induces cross-stage immunity against malaria liver stage. *Journal of Immunology*, **2008**, 181, 8552-8	5.3	73
74	Plasmodium sporozoite-host interactions from the dermis to the hepatocyte. *Current Opinion in Microbiology*, **2009**, 12, 401-7	7.9	71
73	Sterile protection against malaria is independent of immune responses to the circumsporozoite protein. *PLoS ONE*, **2007**, 2, e1371	3.7	71
72	Longitudinal analysis of Plasmodium sporozoite motility in the dermis reveals component of blood vessel recognition. *ELife*, **2015**, 4,	8.9	71
71	Proteolytic Cleavage of the Plasmodium falciparum Circumsporozoite Protein Is a Target of Protective Antibodies. *Journal of Infectious Diseases*, **2015**, 212, 1111-9	7	62
70	Model for in vivo assessment of humoral protection against malaria sporozoite challenge by passive transfer of monoclonal antibodies and immune serum. *Infection and Immunity*, **2014**, 82, 808-17	3.7	61
69	Cell invasion by the vertebrate stages of Plasmodium. *Trends in Microbiology*, **1997**, 5, 52-8	12.4	61
68	Platelet factor 4 activity against P. falciparum and its translation to nonpeptidic mimics as antimalarials. *Cell Host and Microbe*, **2012**, 12, 815-23	23.4	60
67	Mosquito heparan sulfate and its potential role in malaria infection and transmission. *Journal of Biological Chemistry*, **2007**, 282, 25376-84	5.4	60
66	The skin: where malaria infection and the host immune response begin. *Seminars in Immunopathology*, **2012**, 34, 787-92	12	55
65	The Plasmodium circumsporozoite protein is involved in mosquito salivary gland invasion by sporozoites. *Molecular and Biochemical Parasitology*, **2004**, 133, 53-9	1.9	55
64	Attenuated Plasmodium yoelii lacking purine nucleoside phosphorylase confer protective immunity. *Nature Medicine*, **2008**, 14, 954-8	50.5	54
63	A long and winding road: the Plasmodium sporozoite¥ journey in the mammalian host. *Parasitology International*, **2007**, 56, 171-8	2.1	52
62	Transcriptomics and proteomics reveal two waves of translational repression during the maturation of malaria parasite sporozoites. *Nature Communications*, **2019**, 10, 4964	17.4	49
61	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, 19205-13	5.4	48
60	Changes in genome organization of parasite-specific gene families during the Plasmodium transmission stages. *Nature Communications*, **2018**, 9, 1910	17.4	48

59	HIV protease inhibitors inhibit the development of preerythrocytic-stage plasmodium parasites. *Journal of Infectious Diseases*, **2009**, 199, 134-41	7	47
58	Active migration and passive transport of malaria parasites. *Trends in Parasitology*, **2015**, 31, 357-62	6.4	44
57	Integrating transcriptomic and proteomic data for accurate assembly and annotation of genomes. *Genome Research*, **2017**, 27, 133-144	9.7	43
56	Cell surface glycosaminoglycans are not obligatory for Plasmodium berghei sporozoite invasion in vitro. *Molecular and Biochemical Parasitology*, **1996**, 76, 257-66	1.9	43
55	Structure-based design of novel small-molecule inhibitors of Plasmodium falciparum. *Journal of Chemical Information and Modeling*, **2010**, 50, 840-9	6.1	41
54	Comparative 3D genome organization in apicomplexan parasites. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 3183-3192	11.5	36
53	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, 2158-64	3.7	36
52	Reversible Conformational Change in the Plasmodium falciparum Circumsporozoite Protein Masks Its Adhesion Domains. *Infection and Immunity*, **2015**, 83, 3771-80	3.7	35
51	Sporozoite antigens: biology and immunology of the circumsporozoite protein and thrombospondin-related anonymous protein. *Chemical Immunology and Allergy*, **2002**, 80, 70-96		32
50	Quantification of sporozoite invasion, migration, and development by microscopy and flow cytometry. *Methods in Molecular Biology*, **2013**, 923, 385-400	1.4	31
49	Antibody-Mediated Protection against Sporozoites Begins at the Dermal Inoculation Site. *MBio*, **2018**, 9,	7.8	31
48	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	23.4	30
47	The repeat region of the circumsporozoite protein is critical for sporozoite formation and maturation in Plasmodium. *PLoS ONE*, **2014**, 9, e113923	3.7	28
46	The skin stage of malaria infection: biology and relevance to the malaria vaccine effort. *Future Microbiology*, **2008**, 3, 275-8	2.9	28
45	Evidence that mutant PfCRT facilitates the transmission to mosquitoes of chloroquine-treated Plasmodium gametocytes. *Journal of Infectious Diseases*, **2011**, 203, 228-36	7	27
44	Alpha-v-containing integrins are host receptors for the sporozoite surface protein, TRAP. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 4477-4482	11.5	26
43	Plasmodium protease ROM1 is important for proper formation of the parasitophorous vacuole. *PLoS Pathogens*, **2011**, 7, e1002197	7.6	26
42	High mobility group protein HMGB2 is a critical regulator of plasmodium oocyst development. *Journal of Biological Chemistry*, **2008**, 283, 17030-8	5.4	24

41	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	6.5	23
40	When Is a Plasmodium-Infected Mosquito an Infectious Mosquito?. *Trends in Parasitology*, **2020**, 36, 705-716	7.4	23
39	A key role for lipoic acid synthesis during Plasmodium liver stage development. *Cellular Microbiology*, **2013**, 15, 1585-604	3.9	22
38	A mosquito salivary gland protein partially inhibits Plasmodium sporozoite cell traversal and transmission. *Nature Communications*, **2018**, 9, 2908	17.4	21
37	Apolipoprotein E-derived antimicrobial peptide analogues with altered membrane affinity and increased potency and breadth of activity. *FEBS Journal*, **2007**, 274, 4511-25	5.7	20
36	Deletion of the rodent malaria ortholog for falcipain-1 highlights differences between hepatic and blood stage merozoites. *PLoS Pathogens*, **2017**, 13, e1006586	7.6	20
35	Experimental determination of the force of malaria infection reveals a non-linear relationship to mosquito sporozoite loads. *PLoS Pathogens*, **2020**, 16, e1008181	7.6	19
34	A cysteine protease inhibitor of plasmodium berghei is essential for exo-erythrocytic development. *PLoS Pathogens*, **2014**, 10, e1004336	7.6	19
33	Inhibition by stabilization: targeting the Plasmodium falciparum aldolase-TRAP complex. *Malaria Journal*, **2015**, 14, 324	3.6	15
32	Important Extracellular Interactions between Plasmodium Sporozoites and Host Cells Required for Infection. *Trends in Parasitology*, **2019**, 35, 129-139	6.4	14
31	Proteomic Analysis of Merosomes: The Link between Liver and Blood Stages in Malaria. *Journal of Proteome Research*, **2019**, 18, 3404-3418	5.6	12
30	Transgenic Plasmodium berghei sporozoites expressing beta-galactosidase for quantification of sporozoite transmission. *Molecular and Biochemical Parasitology*, **2006**, 146, 30-7	1.9	11
29	The Plasmodium PHIST and RESA-Like Protein Families of Human and Rodent Malaria Parasites. *PLoS ONE*, **2016**, 11, e0152510	3.7	11
28	Plasmodium falciparum histidine-rich protein II causes vascular leakage and exacerbates experimental cerebral malaria in mice. *PLoS ONE*, **2017**, 12, e0177142	3.7	11
27	CO-opting the host HO-1 pathway in tuberculosis and malaria. *Cell Host and Microbe*, **2008**, 3, 277-9	23.4	10
26	Palmitoyl transferases have critical roles in the development of mosquito and liver stages of Plasmodium. *Cellular Microbiology*, **2016**, 18, 1625-1641	3.9	10
25	Furuncular myiasis caused by Dermatobia hominis in a returning traveler. *American Journal of Tropical Medicine and Hygiene*, **2007**, 76, 598-9	3.2	9
24	Generation of Transmission-Competent Human Malaria Parasites with Chromosomally-Integrated Fluorescent Reporters. *Scientific Reports*, **2019**, 9, 13131	4.9	8

23	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	11.5	8
22	An immunoradiometric assay for the quantification of Plasmodium sporozoite invasion of HepG2 cells. *Journal of Immunological Methods*, **1998**, 221, 17-23	2.5	8
21	Plasmodium sporozoites invade cells with targeted deletions in the LDL receptor related protein. *Molecular and Biochemical Parasitology*, **2000**, 106, 293-8	1.9	8
20	Transcriptional heterogeneity and tightly regulated changes in gene expression during sporozoite development. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	8
19	Plasmodium yoelii sporozoites infect CD36-deficient mice. *Experimental Parasitology*, **2002**, 100, 12-6	2.1	7
18	Plasmodium falciparum Gametocyte Culture and Mosquito Infection Through Artificial Membrane Feeding. *Journal of Visualized Experiments*, **2020**,	1.6	7
17	Primaquine-thiazolidinones block malaria transmission and development of the liver exoerythrocytic forms. *Malaria Journal*, **2017**, 16, 110	3.6	5
16	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	3.6	5
15	Functional human IgA targets a conserved site on malaria sporozoites. *Science Translational Medicine*, **2021**, 13,	17.5	5
14	The fibrinolytic system enables the onset of infection in the mosquito vector and the mammalian host. *Science Advances*, **2021**, 7,	14.3	5
13	Comparative intravital imaging of human and rodent malaria sporozoites reveals the skin is not a species-specific barrier. *EMBO Molecular Medicine*, **2021**, 13, e11796	12	5
12	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	1.9	4
11	Plasmodium sporozoites trickle out of the injection site. *Cellular Microbiology*, **2007**, 9, 2093-2093	3.9	3
10	Quantitative intravital imaging ofPlasmodium falciparumsporozoites: A novel platform to test malaria intervention strategies		3
9	The RTS,S vaccine-a chance to regain the upper hand against malaria?. *Cell*, **2022**, 185, 750-754	56.2	2
8	Extensive Transcriptional and Translational Regulation Occur During the Maturation of Malaria Parasite Sporozoites		1
7	What can we learn from an unnatural immune response?. *Trends in Parasitology*, **2010**, 26, 319-21	6.4	
6	Addendum: Transcriptomics and proteomics reveal two waves of translational repression during the maturation of malaria parasite sporozoites.. *Nature Communications*, **2022**, 13, 283	17.4	

5	Probing the necessity of the lipoate cofactor in Plasmodium. *FASEB Journal*, **2015**, 29, LB84	0.9
4	Experimental determination of the force of malaria infection reveals a non-linear relationship to mosquito sporozoite loads **2020**, 16, e1008181	
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