

Photini Sinnis

List of Publications by Year in descending order

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93
papers

5,985
citations

57758

44
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82547

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. <i>Cell</i> , 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. <i>Cell Host and Microbe</i> , 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. <i>Journal of Experimental Medicine</i> , 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. <i>Nature Medicine</i> , 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. <i>Cell Host and Microbe</i> , 2007, 2, 316-327.	11.0	221
6	Plasmodium sporozoites trickle out of the injection site. <i>Cellular Microbiology</i> , 2007, 9, 1215-1222.	2.1	189
7	The Plasmodium circumsporozoite protein is proteolytically processed during cell invasion. <i>Journal of Experimental Medicine</i> , 2005, 201, 27-33.	8.5	182
8	Quantitative Dynamics of Plasmodium yoelii Sporozoite Transmission by Infected Anopheline Mosquitoes. <i>Infection and Immunity</i> , 2005, 73, 4363-4369.	2.2	177
9	Total and Putative Surface Proteomics of Malaria Parasite Salivary Gland Sporozoites. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 1127-1143.	3.8	168
10	Proteasome Inhibitors Block Development of <i>Plasmodium</i> spp. <i>Antimicrobial Agents and Chemotherapy</i> , 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. <i>PLoS Pathogens</i> , 2016, 12, e1005606.	4.7	159
12	Antimalarial Activity of Allicin, a Biologically Active Compound from Garlic Cloves. <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 1731-1737.	3.2	116
13	The Binding of the Circumsporozoite Protein to Cell Surface Heparan Sulfate Proteoglycans Is Required for Plasmodium Sporozoite Attachment to Target Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 26784-26791.	3.4	115
14	Malaria in India: The Center for the Study of Complex Malaria in India. <i>Acta Tropica</i> , 2012, 121, 267-273.	2.0	115
15	Longitudinal analysis of Plasmodium sporozoite motility in the dermis reveals component of blood vessel recognition. <i>eLife</i> , 2015, 4, .	6.0	109
16	The Plasmodium TRAP/MIC2 family member, TRAP-Like Protein (TLP), is involved in tissue traversal by sporozoites. <i>Cellular Microbiology</i> , 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. <i>PLoS Pathogens</i> , 2012, 8, e1002725.	4.7	98
18	Dendritic Cells and Hepatocytes Use Distinct Pathways to Process Protective Antigen from Plasmodium in vivo. <i>PLoS Pathogens</i> , 2011, 7, e1001318.	4.7	97

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19	Model for<i>In Vivo</i>Assessment of Humoral Protection against Malaria Sporozoite Challenge by Passive Transfer of Monoclonal Antibodies and Immune Serum. <i>Infection and Immunity</i> , 2014, 82, 808-817.	2.2	96
20	Lymph-Node Resident CD8 ⁺ Dendritic Cells Capture Antigens from Migratory Malaria Sporozoites and Induce CD8 ⁺ T Cell Responses. <i>PLoS Pathogens</i> , 2015, 11, e1004637.	4.7	96
21	Plasmodium sporozoite-host interactions from the dermis to the hepatocyte. <i>Current Opinion in Microbiology</i> , 2009, 12, 401-407.	5.1	95
22	Transcriptomics and proteomics reveal two waves of translational repression during the maturation of malaria parasite sporozoites. <i>Nature Communications</i> , 2019, 10, 4964.	12.8	94
23	Anopheles stephensi salivary glands bear receptors for region I of the circumsporozoite protein of Plasmodium falciparum. <i>Molecular and Biochemical Parasitology</i> , 1997, 90, 33-41.	1.1	85
24	Proteolytic Cleavage of the<i>Plasmodium falciparum</i>Circumsporozoite Protein Is a Target of Protective Antibodies. <i>Journal of Infectious Diseases</i> , 2015, 212, 1111-1119.	4.0	83
25	Changes in genome organization of parasite-specific gene families during the Plasmodium transmission stages. <i>Nature Communications</i> , 2018, 9, 1910.	12.8	82
26	Sterile Protection against Malaria Is Independent of Immune Responses to the Circumsporozoite Protein. <i>PLoS ONE</i> , 2007, 2, e1371.	2.5	81
27	Vaccination with Live<i>Plasmodium yoelii</i>Blood Stage Parasites under Chloroquine Cover Induces Cross-Stage Immunity against Malaria Liver Stage. <i>Journal of Immunology</i> , 2008, 181, 8552-8558.	0.8	79
28	When Is a Plasmodium-Infected Mosquito an Infectious Mosquito?. <i>Trends in Parasitology</i> , 2020, 36, 705-716.	3.3	75
29	Platelet Factor 4 Activity against P. falciparum and Its Translation to Nonpeptidic Mimics as Antimalarials. <i>Cell Host and Microbe</i> , 2012, 12, 815-823.	11.0	71
30	The skin: where malaria infection and the host immune response begin. <i>Seminars in Immunopathology</i> , 2012, 34, 787-792.	6.1	70
31	Cell invasion by the vertebrate stages of Plasmodium. <i>Trends in Microbiology</i> , 1997, 5, 52-58.	7.7	67
32	Mosquito Heparan Sulfate and Its Potential Role in Malaria Infection and Transmission. <i>Journal of Biological Chemistry</i> , 2007, 282, 25376-25384.	3.4	67
33	Attenuated Plasmodium yoelii lacking purine nucleoside phosphorylase confer protective immunity. <i>Nature Medicine</i> , 2008, 14, 954-958.	30.7	66
34	A long and winding road: The Plasmodium sporozoite's journey in the mammalian host. <i>Parasitology International</i> , 2007, 56, 171-178.	1.3	65
35	Active migration and passive transport of malaria parasites. <i>Trends in Parasitology</i> , 2015, 31, 357-362.	3.3	65
36	Comparative 3D genome organization in apicomplexan parasites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 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. <i>Molecular and Biochemical Parasitology</i> , 2004, 133, 53-59.	1.1	61
38	Integrating transcriptomic and proteomic data for accurate assembly and annotation of genomes. <i>Genome Research</i> , 2017, 27, 133-144.	5.5	60
39	HIV Protease Inhibitors Inhibit the Development of Preerythrocytic-Stage <i>Plasmodium</i> Parasites. <i>Journal of Infectious Diseases</i> , 2009, 199, 134-141.	4.0	59
40	Reversible Conformational Change in the Plasmodium falciparum Circumsporozoite Protein Masks Its Adhesion Domains. <i>Infection and Immunity</i> , 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. <i>Journal of Biological Chemistry</i> , 1997, 272, 19205-19213.	3.4	54
42	Antibody-Mediated Protection against <i>Plasmodium</i> Sporozoites Begins at the Dermal Inoculation Site. <i>MBio</i> , 2018, 9, .	4.1	53
43	The Repeat Region of the Circumsporozoite Protein is Critical for Sporozoite Formation and Maturation in Plasmodium. <i>PLoS ONE</i> , 2014, 9, e113923.	2.5	51
44	Structure-based Design of Novel Small-Molecule Inhibitors of Plasmodium falciparum. <i>Journal of Chemical Information and Modeling</i> , 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. <i>PLoS Pathogens</i> , 2020, 16, e1008181.	4.7	49
46	Cell surface glycosaminoglycans are not obligatory for Plasmodium berghei sporozoite invasion in vitro. <i>Molecular and Biochemical Parasitology</i> , 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. <i>Infection and Immunity</i> , 2012, 80, 2158-2164.	2.2	41
48	Alpha-vâ€“containing integrins are host receptors for the <i>Plasmodium falciparum</i> sporozoite surface protein, TRAP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4477-4482.	7.1	41
49	A mosquito salivary gland protein partially inhibits Plasmodium sporozoite cell traversal and transmission. <i>Nature Communications</i> , 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. <i>Cell Host and Microbe</i> , 2013, 13, 15-28.	11.0	37
52	A key role for lipoic acid synthesis during <i>Plasmodium</i> liver stage development. <i>Cellular Microbiology</i> , 2013, 15, 1585-1604.	2.1	36
53	Quantification of Sporozoite Invasion, Migration, and Development by Microscopy and Flow Cytometry. <i>Methods in Molecular Biology</i> , 2012, 923, 385-400.	0.9	35
54	The innate and adaptive response to mosquito saliva and <i>Plasmodium</i> sporozoites in the skin. <i>Annals of the New York Academy of Sciences</i> , 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. <i>Future Microbiology</i> , 2008, 3, 275-278.	2.0	32
56	Transcriptional heterogeneity and tightly regulated changes in gene expression during <i>Plasmodium berghei</i> sporozoite development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	32
57	High Mobility Group Protein HMGB2 Is a Critical Regulator of <i>Plasmodium</i> Oocyst Development. <i>Journal of Biological Chemistry</i> , 2008, 283, 17030-17038.	3.4	31
58	Evidence That Mutant PfCRT Facilitates the Transmission to Mosquitoes of Chloroquine-Treated <i>Plasmodium</i> Gametocytes. <i>Journal of Infectious Diseases</i> , 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. <i>PLoS Pathogens</i> , 2017, 13, e1006586.	4.7	31
60	Important Extracellular Interactions between <i>Plasmodium</i> Sporozoites and Host Cells Required for Infection. <i>Trends in Parasitology</i> , 2019, 35, 129-139.	3.3	30
61	Proteomic Analysis of <i>Plasmodium</i> Merosomes: The Link between Liver and Blood Stages in Malaria. <i>Journal of Proteome Research</i> , 2019, 18, 3404-3418.	3.7	29
62	Apolipoproteinâ€fEâ€derived antimicrobial peptide analogues with altered membrane affinity and increased potency and breadth of activity. <i>FEBS Journal</i> , 2007, 274, 4511-4525.	4.7	28
63	<i>Plasmodium</i> Protease ROM1 Is Important for Proper Formation of the Parasitophorous Vacuole. <i>PLoS Pathogens</i> , 2011, 7, e1002197.	4.7	28
64	<i>Plasmodium falciparum</i> Gametocyte Culture and Mosquito Infection Through Artificial Membrane Feeding. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	28
65	Generation of Transmission-Competent Human Malaria Parasites with Chromosomally-Integrated Fluorescent Reporters. <i>Scientific Reports</i> , 2019, 9, 13131.	3.3	22
66	A Cysteine Protease Inhibitor of <i>Plasmodium berghei</i> Is Essential for Exo-erythrocytic Development. <i>PLoS Pathogens</i> , 2014, 10, e1004336.	4.7	21
67	Functional human IgA targets a conserved site on malaria sporozoites. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	21
68	Inhibition by stabilization: targeting the <i>Plasmodium falciparum</i> aldolaseâ€TRAP complex. <i>Malaria Journal</i> , 2015, 14, 324.	2.3	20
69	<i>Plasmodium falciparum</i> histidine-rich protein II causes vascular leakage and exacerbates experimental cerebral malaria in mice. <i>PLoS ONE</i> , 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. <i>EMBO Molecular Medicine</i> , 2021, 13, e11796.	6.9	18
71	Palmitoyl transferases have critical roles in the development of mosquito and liver stages of <i>Plasmodium</i> . <i>Cellular Microbiology</i> , 2016, 18, 1625-1641.	2.1	17
72	The RTS,S vaccineâ€a chance to regain the upper hand against malaria?. <i>Cell</i> , 2022, 185, 750-754.	28.9	17

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