

Oliver Billker

List of Publications by Year in descending order

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86
papers

8,250
citations

47006

47
h-index

64796

79
g-index

94
all docs

94
docs citations

94
times ranked

6581
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of xanthurenic acid as the putative inducer of malaria development in the mosquito. <i>Nature</i> , 1998, 392, 289-292.	27.8	530
2	Functional Profiling of a Plasmodium Genome Reveals an Abundance of Essential Genes. <i>Cell</i> , 2017, 170, 260-272.e8.	28.9	471
3	Calcium and a Calcium-Dependent Protein Kinase Regulate Gamete Formation and Mosquito Transmission in a Malaria Parasite. <i>Cell</i> , 2004, 117, 503-514.	28.9	415
4	A cascade of DNA-binding proteins for sexual commitment and development in Plasmodium. <i>Nature</i> , 2014, 507, 253-257.	27.8	366
5	Calcium-Dependent Signaling and Kinases in Apicomplexan Parasites. <i>Cell Host and Microbe</i> , 2009, 5, 612-622.	11.0	295
6	The conserved plant sterility gene <i>HAP2</i> functions after attachment of fusogenic membranes in <i>Chlamydomonas</i> and <i>Plasmodium</i> gametes. <i>Genes and Development</i> , 2008, 22, 1051-1068.	5.9	286
7	The Systematic Functional Analysis of Plasmodium Protein Kinases Identifies Essential Regulators of Mosquito Transmission. <i>Cell Host and Microbe</i> , 2010, 8, 377-387.	11.0	267
8	Single-cell RNA-seq and computational analysis using temporal mixture modeling resolves T _H 1/T _H 17 fate bifurcation in malaria. <i>Science Immunology</i> , 2017, 2, .	11.9	258
9	A comprehensive evaluation of rodent malaria parasite genomes and gene expression. <i>BMC Biology</i> , 2014, 12, 86.	3.8	251
10	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
11	Gametogenesis in Malaria Parasites Is Mediated by the cGMP-Dependent Protein Kinase. <i>PLoS Biology</i> , 2008, 6, e139.	5.6	203
12	The Malaria Cell Atlas: Single parasite transcriptomes across the complete <i>Plasmodium</i> life cycle. <i>Science</i> , 2019, 365, .	12.6	198
13	Phosphoinositide Metabolism Links cGMP-Dependent Protein Kinase G to Essential Ca ²⁺ Signals at Key Decision Points in the Life Cycle of Malaria Parasites. <i>PLoS Biology</i> , 2014, 12, e1001806.	5.6	185
14	A Knockout Screen of ApiAP2 Genes Reveals Networks of Interacting Transcriptional Regulators Controlling the Plasmodium Life Cycle. <i>Cell Host and Microbe</i> , 2017, 21, 11-22.	11.0	177
15	A Cyclic GMP Signalling Module That Regulates Gliding Motility in a Malaria Parasite. <i>PLoS Pathogens</i> , 2009, 5, e1000599.	4.7	171
16	Single-cell RNA-seq reveals hidden transcriptional variation in malaria parasites. <i>ELife</i> , 2018, 7, .	6.0	171
17	A Plasmodium Calcium-Dependent Protein Kinase Controls Zygote Development and Transmission by Translationally Activating Repressed mRNAs. <i>Cell Host and Microbe</i> , 2012, 12, 9-19.	11.0	163
18	Nutrient sensing modulates malaria parasite virulence. <i>Nature</i> , 2017, 547, 213-216.	27.8	146

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19	Plasmodium berghei calcium-dependent protein kinase 3 is required for ookinete gliding motility and mosquito midgut invasion. <i>Molecular Microbiology</i> , 2006, 60, 1355-1363.	2.5	141
20	The dynamics of interactions between Plasmodium and the mosquito: a study of the infectivity of Plasmodium berghei and Plasmodium gallinaceum, and their transmission by Anopheles stephensi, Anopheles gambiae and Aedes aegypti. <i>International Journal for Parasitology</i> , 2003, 33, 933-943.	3.1	139
21	A NIMA-related Protein Kinase Is Essential for Completion of the Sexual Cycle of Malaria Parasites. <i>Journal of Biological Chemistry</i> , 2005, 280, 31957-31964.	3.4	138
22	An atypical mitogen-activated protein kinase controls cytokinesis and flagellar motility during male gamete formation in a malaria parasite. <i>Molecular Microbiology</i> , 2005, 58, 1253-1263.	2.5	127
23	Differential recognition of members of the carcinoembryonic antigen family by Afa/Dr adhesins of diffusely adhering Escherichia coli (Afa/Dr DAEC). <i>Molecular Microbiology</i> , 2004, 52, 963-983.	2.5	115
24	BCKDH: The Missing Link in Apicomplexan Mitochondrial Metabolism Is Required for Full Virulence of Toxoplasma gondii and Plasmodium berghei. <i>PLoS Pathogens</i> , 2014, 10, e1004263.	4.7	115
25	A Genome-Scale Vector Resource Enables High-Throughput Reverse Genetic Screening in a Malaria Parasite. <i>Cell Host and Microbe</i> , 2015, 17, 404-413.	11.0	113
26	Protein kinases of malaria parasites: an update. <i>Trends in Parasitology</i> , 2008, 24, 570-577.	3.3	104
27	PlasmoGEM, a database supporting a community resource for large-scale experimental genetics in malaria parasites. <i>Nucleic Acids Research</i> , 2015, 43, D1176-D1182.	14.5	97
28	An Essential Role for the Plasmodium Nek-2 Nima-related Protein Kinase in the Sexual Development of Malaria Parasites. <i>Journal of Biological Chemistry</i> , 2009, 284, 20858-20868.	3.4	94
29	A Tetracycline-Repressible Transactivator System to Study Essential Genes in Malaria Parasites. <i>Cell Host and Microbe</i> , 2012, 12, 824-834.	11.0	94
30	A scalable pipeline for highly effective genetic modification of a malaria parasite. <i>Nature Methods</i> , 2011, 8, 1078-1082.	19.0	93
31	Genome-Scale Identification of Essential Metabolic Processes for Targeting the Plasmodium Liver Stage. <i>Cell</i> , 2019, 179, 1112-1128.e26.	28.9	92
32	Transmission of malaria to mosquitoes blocked by bumped kinase inhibitors. <i>Journal of Clinical Investigation</i> , 2012, 122, 2301-2305.	8.2	90
33	Comparative genomics in <i>Chlamydomonas</i> and <i>Plasmodium</i> identifies an ancient nuclear envelope protein family essential for sexual reproduction in protists, fungi, plants, and vertebrates. <i>Genes and Development</i> , 2013, 27, 1198-1215.	5.9	87
34	Both mosquito-derived xanthurenic acid and a host blood-derived factor regulate gametogenesis of Plasmodium in the midgut of the mosquito. <i>Molecular and Biochemical Parasitology</i> , 2001, 116, 17-24.	1.1	78
35	Protein kinases as targets for antimalarial intervention: Kinomics, structure-based design, transmission-blockade, and targeting host cell enzymes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1754, 132-150.	2.3	78
36	Complete avian malaria parasite genomes reveal features associated with lineage-specific evolution in birds and mammals. <i>Genome Research</i> , 2018, 28, 547-560.	5.5	78

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37	Inducible developmental reprogramming redefines commitment to sexual development in the malaria parasite <i>Plasmodium berghei</i> . <i>Nature Microbiology</i> , 2018, 3, 1206-1213.	13.3	77
38	Global Analysis of Apicomplexan Protein Sâ€Acyl Transferases Reveals an Enzyme Essential for Invasion. <i>Traffic</i> , 2013, 14, 895-911.	2.7	76
39	Azadirachtin Disrupts Formation of Organised Microtubule Arrays during Microgametogenesis of <i>Plasmodium berghei</i> . <i>Journal of Eukaryotic Microbiology</i> , 2002, 49, 489-497.	1.7	75
40	Distinct mechanisms of internalization of <i>Neisseria gonorrhoeae</i> by members of the CEACAM receptor family involving Rac1- and Cdc42-dependent and -independent pathways. <i>EMBO Journal</i> , 2002, 21, 560-571.	7.8	74
41	Calcium signalling in malaria parasites. <i>Molecular Microbiology</i> , 2016, 100, 397-408.	2.5	71
42	The Alveolin IMC1h Is Required for Normal Ookinete and Sporozoite Motility Behaviour and Host Colonisation in <i>Plasmodium berghei</i> . <i>PLoS ONE</i> , 2012, 7, e41409.	2.5	71
43	Invasion of hepatocytes by <i>Plasmodium</i> sporozoites requires cGMPâ€dependent protein kinase and calcium dependent protein kinase 4. <i>Molecular Microbiology</i> , 2016, 102, 349-363.	2.5	69
44	Mosquito cellular immunity at single-cell resolution. <i>Science</i> , 2020, 369, 1128-1132.	12.6	68
45	Single-cell analysis of CD4+ T-cell differentiation reveals three major cell states and progressive acceleration of proliferation. <i>Genome Biology</i> , 2016, 17, 103.	8.8	65
46	Defining the Range of Pathogens Susceptible to Ifitm3 Restriction Using a Knockout Mouse Model. <i>PLoS ONE</i> , 2013, 8, e80723.	2.5	60
47	Sub-minute Phosphoregulation of Cell Cycle Systems during <i>Plasmodium</i> Gamete Formation. <i>Cell Reports</i> , 2017, 21, 2017-2029.	6.4	59
48	Efficacy of a <i>Plasmodium vivax</i> Malaria Vaccine Using ChAd63 and Modified Vaccinia Ankara Expressing Thrombospondin-Related Anonymous Protein as Assessed with Transgenic <i>Plasmodium berghei</i> Parasites. <i>Infection and Immunity</i> , 2014, 82, 1277-1286.	2.2	53
49	Multiple roles for <i>Plasmodium berghei</i> phosphoinositide-specific phospholipase C in regulating gametocyte activation and differentiation. <i>Cellular Microbiology</i> , 2011, 13, 955-966.	2.1	51
50	Antibody-independent mechanisms regulate the establishment of chronic <i>Plasmodium</i> infection. <i>Nature Microbiology</i> , 2017, 2, 16276.	13.3	50
51	Epistasis studies reveal redundancy among calcium-dependent protein kinases in motility and invasion of malaria parasites. <i>Nature Communications</i> , 2018, 9, 4248.	12.8	50
52	The structural basis of CEACAM-receptor targeting by neisserial Opa proteins. <i>Trends in Microbiology</i> , 2000, 8, 258-260.	7.7	49
53	Landscape of the <i>Plasmodium</i> Interactome Reveals Both Conserved and Species-Specific Functionality. <i>Cell Reports</i> , 2019, 28, 1635-1647.e5.	6.4	49
54	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

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55	Nuclear Factor- κ B Directs Carcinoembryonic Antigen-related Cellular Adhesion Molecule 1 Receptor Expression in <i>Neisseria gonorrhoeae</i> -infected Epithelial Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 7438-7446.	3.4	37
56	The Malarial Serine Protease SUB1 Plays an Essential Role in Parasite Liver Stage Development. <i>PLoS Pathogens</i> , 2013, 9, e1003811.	4.7	34
57	Quantitative assessment of DNA replication to monitor microgametogenesis in <i>Plasmodium berghei</i> . <i>Molecular and Biochemical Parasitology</i> , 2009, 168, 172-176.	1.1	30
58	Genetic and transcriptional analysis of phosphoinositide-specific phospholipase C in <i>Plasmodium</i> . <i>Experimental Parasitology</i> , 2011, 129, 75-80.	1.2	28
59	Generation of gene targeting constructs for <i>Plasmodium berghei</i> by a PCR-based method amenable to high throughput applications. <i>Molecular and Biochemical Parasitology</i> , 2006, 145, 265-268.	1.1	27
60	Recombination-Mediated Genetic Engineering of <i>Plasmodium berghei</i> DNA. <i>Methods in Molecular Biology</i> , 2012, 923, 127-138.	0.9	27
61	Analysis of erythrocyte signalling pathways during <i>Plasmodium falciparum</i> infection identifies targets for host-directed antimalarial intervention. <i>Nature Communications</i> , 2020, 11, 4015.	12.8	27
62	An enhanced toolkit for the generation of knockout and marker-free fluorescent <i>Plasmodium chabaudi</i> . <i>Wellcome Open Research</i> , 2020, 5, 71.	1.8	23
63	Cutting Edge: The Membrane Attack Complex of Complement Is Required for the Development of Murine Experimental Cerebral Malaria. <i>Journal of Immunology</i> , 2011, 186, 6657-6660.	0.8	22
64	Decreased Rate of Plasma Arginine Appearance in Murine Malaria May Explain Hypoargininemia in Children With Cerebral Malaria. <i>Journal of Infectious Diseases</i> , 2016, 214, 1840-1849.	4.0	22
65	Gametocytes and Gametes. , 0, , 191-219.		19
66	<i>Plasmodium</i> Infection Is Associated with Impaired Hepatic Dimethylarginine Dimethylaminohydrolase Activity and Disruption of Nitric Oxide Synthase Inhibitor/Substrate Homeostasis. <i>PLoS Pathogens</i> , 2015, 11, e1005119.	4.7	18
67	<i>Plasmodium berghei</i> : Infectivity of Mice to <i>Anopheles stephensi</i> Mosquitoes. <i>Experimental Parasitology</i> , 1996, 84, 371-379.	1.2	17
68	Isonicotinic acid hydrazide: an anti-tuberculosis drug inhibits malarial transmission in the mosquito gut. <i>Experimental Parasitology</i> , 2004, 106, 30-36.	1.2	17
69	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
70	Signal transduction pathways induced by virulence factors of <i>Neisseria gonorrhoeae</i> . <i>International Journal of Medical Microbiology</i> , 2001, 291, 307-314.	3.6	14
71	A 39-Amino-Acid C-Terminal Truncation of GDV1 Disrupts Sexual Commitment in <i>Plasmodium falciparum</i> . <i>MSphere</i> , 2021, 6, .	2.9	14
72	Enhanced Methylation Analysis by Recovery of Unsequenceable Fragments. <i>PLoS ONE</i> , 2016, 11, e0152322.	2.5	13

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73	A Stem Cell Strategy Identifies Glycophorin C as a Major Erythrocyte Receptor for the Rodent Malaria Parasite <i>Plasmodium berghei</i> . PLoS ONE, 2016, 11, e0158238.	2.5	11
74	A single-nucleotide polymorphism in a <i>Plasmodium berghei</i> ApiAP2 transcription factor alters the development of host immunity. Science Advances, 2020, 6, eaaw6957.	10.3	10
75	An enhanced toolkit for the generation of knockout and marker-free fluorescent <i>Plasmodium chabaudi</i> . Wellcome Open Research, 2020, 5, 71.	1.8	10
76	Testing the impact of a single nucleotide polymorphism in a <i>Plasmodium berghei</i> ApiAP2 transcription factor on experimental cerebral malaria in mice. Scientific Reports, 2020, 10, 13630.	3.3	9
77	Calcium and cyclic nucleotide signaling networks in <i>Toxoplasma gondii</i> . , 2020, , 577-605.		6
78	A Novel Chemically Differentiated Mouse Embryonic Stem Cell-Based Model to Study Liver Stages of <i>Plasmodium berghei</i> . Stem Cell Reports, 2020, 14, 1123-1134.	4.8	4
79	Systematic Identification of <i>Plasmodium falciparum</i> Sporozoite Membrane Protein Interactions Reveals an Essential Role for the p24 Complex in Host Infection. Molecular and Cellular Proteomics, 2021, 20, 100038.	3.8	4
80	A parasite calcium switch and Achilles' heel revealed. Nature Structural and Molecular Biology, 2010, 17, 541-543.	8.2	3
81	Landscape of the <i>Plasmodium</i> Interactome. SSRN Electronic Journal, 0, , .	0.4	1
82	The role of the cGMP-dependent protein kinase in development of the malaria parasite. BMC Pharmacology, 2009, 9, S2.	0.4	0
83	Calcium Builds Strong Host-Parasite Interactions. Cell Host and Microbe, 2015, 18, 9-10.	11.0	0
84	CRISPRing the Elephant in the Room. Cell Host and Microbe, 2018, 24, 754-755.	11.0	0
85	Genome reconstructions of metabolism of <i>Plasmodium</i> RBC and liver stages. Current Opinion in Microbiology, 2021, 63, 259-266.	5.1	0
86	Cracking Ali Baba's code. ELife, 2017, 6, .	6.0	0