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	Systematic Identification of Plasmodium Falciparum Sporozoite Membrane Protein Interactions Reveals an Essential Role for the p24ÂComplex in Host Infection. Molecular and Cellular Proteomics, 2021, 20, 100038.	3.8	4
2	A 39-Amino-Acid C-Terminal Truncation of GDV1 Disrupts Sexual Commitment in Plasmodium falciparum. MSphere, 2021, 6, .	2.9	14
3	Genome reconstructions of metabolism of Plasmodium RBC and liver stages. Current Opinion in Microbiology, 2021, 63, 259-266.	5.1	0
4	A Novel Chemically Differentiated Mouse Embryonic Stem Cell-Based Model to Study Liver Stages of Plasmodium berghei. Stem Cell Reports, 2020, 14, 1123-1134.	4.8	4
5	Analysis of erythrocyte signalling pathways during Plasmodium falciparum infection identifies targets for host-directed antimalarial intervention. Nature Communications, 2020, 11, 4015.	12.8	27
6	Mosquito cellular immunity at single-cell resolution. Science, 2020, 369, 1128-1132.	12.6	68
7	Testing the impact of a single nucleotide polymorphism in a Plasmodium berghei ApiAP2 transcription factor on experimental cerebral malaria in mice. Scientific Reports, 2020, 10, 13630.	3.3	9
8	A single-nucleotide polymorphism in a Plasmodium berghei ApiAP2 transcription factor alters the development of host immunity. Science Advances, 2020, 6, eaaw6957.	10.3	10
9	Calcium and cyclic nucleotide signaling networks in Toxoplasma gondii. , 2020, , 577-605.		6
10	An enhanced toolkit for the generation of knockout and marker-free fluorescent Plasmodium chabaudi. Wellcome Open Research, 2020, 5, 71.	1.8	23
11	An enhanced toolkit for the generation of knockout and marker-free fluorescent Plasmodium chabaudi. Wellcome Open Research, 2020, 5, 71.	1.8	10
12	Landscape of the Plasmodium Interactome Reveals Both Conserved and Species-Specific Functionality. Cell Reports, 2019, 28, 1635-1647.e5.	6.4	49
13	The Malaria Cell Atlas: Single parasite transcriptomes across the complete Plasmodium life cycle. Science, 2019, 365, .	12.6	198
14	Genome-Scale Identification of Essential Metabolic Processes for Targeting the Plasmodium Liver Stage. Cell, 2019, 179, 1112-1128.e26.	28.9	92
15	Complete avian malaria parasite genomes reveal features associated with lineage-specific evolution in birds and mammals. Genome Research, 2018, 28, 547-560.	5.5	78
16	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
17	CRISPRing the Elephant in the Room. Cell Host and Microbe, 2018, 24, 754-755.	11.0	0
18	Epistasis studies reveal redundancy among calcium-dependent protein kinases in motility and invasion of malaria parasites. Nature Communications, 2018, 9, 4248.	12.8	50

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19	Inducible developmental reprogramming redefines commitment to sexual development in the malaria parasite Plasmodium berghei. Nature Microbiology, 2018, 3, 1206-1213.	13.3	77
20	Single-cell RNA-seq reveals hidden transcriptional variation in malaria parasites. ELife, 2018, 7, .	6.0	171
21	A Knockout Screen of ApiAP2 Genes Reveals Networks of Interacting Transcriptional Regulators Controlling the Plasmodium Life Cycle. Cell Host and Microbe, 2017, 21, 11-22.	11.0	177
22	Antibody-independent mechanisms regulate the establishment of chronic Plasmodium infection. Nature Microbiology, 2017, 2, 16276.	13.3	50
23	Single-cell RNA-seq and computational analysis using temporal mixture modeling resolves T _H 1/T _{FH} fate bifurcation in malaria. Science Immunology, 2017, 2, .	11.9	258
24	Functional Profiling of a Plasmodium Genome Reveals an Abundance of Essential Genes. Cell, 2017, 170, 260-272.e8.	28.9	471
25	Sub-minute Phosphoregulation of Cell Cycle Systems during Plasmodium Gamete Formation. Cell Reports, 2017, 21, 2017-2029.	6.4	59
26	Nutrient sensing modulates malaria parasite virulence. Nature, 2017, 547, 213-216.	27.8	146
27	Cracking Ali Babaâ€™s code. ELife, 2017, 6, .	6.0	0
28	Enhanced Methylation Analysis by Recovery of Unsequenceable Fragments. PLoS ONE, 2016, 11, e0152322.	2.5	13
29	Palmitoyl transferases have critical roles in the development of mosquito and liver stages ofPlasmodium. Cellular Microbiology, 2016, 18, 1625-1641.	2.1	17
30	Decreased Rate of Plasma Arginine Appearance in Murine Malaria May Explain Hypoargininemia in Children With Cerebral Malaria. Journal of Infectious Diseases, 2016, 214, 1840-1849.	4.0	22
31	Invasion of hepatocytes by Plasmodium sporozoites requires cGMPâ€dependent protein kinase and calcium dependent protein kinase 4. Molecular Microbiology, 2016, 102, 349-363.	2.5	69
32	Single-cell analysis of CD4+ T-cell differentiation reveals three major cell states and progressive acceleration of proliferation. Genome Biology, 2016, 17, 103.	8.8	65
33	Calcium signalling in malaria parasites. Molecular Microbiology, 2016, 100, 397-408.	2.5	71
34	A Stem Cell Strategy Identifies Glycophorin C as a Major Erythrocyte Receptor for the Rodent Malaria Parasite Plasmodium berghei. PLoS ONE, 2016, 11, e0158238.	2.5	11
35	Plasmodium Infection Is Associated with Impaired Hepatic Dimethylarginine Dimethylaminohydrolase Activity and Disruption of Nitric Oxide Synthase Inhibitor/Substrate Homeostasis. PLoS Pathogens, 2015, 11, e1005119.	4.7	18
36	A Genome-Scale Vector Resource Enables High-Throughput Reverse Genetic Screening in a Malaria Parasite. Cell Host and Microbe, 2015, 17, 404-413.	11.0	113

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37	Calcium Builds Strong Host-Parasite Interactions. Cell Host and Microbe, 2015, 18, 9-10.	11.0	0
38	PlasmoGEM, a database supporting a community resource for large-scale experimental genetics in malaria parasites. Nucleic Acids Research, 2015, 43, D1176-D1182.	14.5	97
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	BCKDH: The Missing Link in Apicomplexan Mitochondrial Metabolism Is Required for Full Virulence of Toxoplasma gondii and Plasmodium berghei. PLoS Pathogens, 2014, 10, e1004263.	4.7	115
41	Efficacy of a Plasmodium vivax Malaria Vaccine Using ChAd63 and Modified Vaccinia Ankara Expressing Thrombospondin-Related Anonymous Protein as Assessed with Transgenic Plasmodium berghei Parasites. Infection and Immunity, 2014, 82, 1277-1286.	2.2	53
42	A comprehensive evaluation of rodent malaria parasite genomes and gene expression. BMC Biology, 2014, 12, 86.	3.8	251
43	A cascade of DNA-binding proteins for sexual commitment and development in Plasmodium. Nature, 2014, 507, 253-257.	27.8	366
44	Comparative genomics in Chlamydomonas and Plasmodium identifies an ancient nuclear envelope protein family essential for sexual reproduction in protists, fungi, plants, and vertebrates. Genes and Development, 2013, 27, 1198-1215.	5.9	87
45	The Malarial Serine Protease SUB1 Plays an Essential Role in Parasite Liver Stage Development. PLoS Pathogens, 2013, 9, e1003811.	4.7	34
46	Global Analysis of Apicomplexan Protein Sâ€Acyl Transferases Reveals an Enzyme Essential for Invasion. Traffic, 2013, 14, 895-911.	2.7	76
47	Defining the Range of Pathogens Susceptible to Ifitm3 Restriction Using a Knockout Mouse Model. PLoS ONE, 2013, 8, e80723.	2.5	60
48	A Tetracycline-Repressible Transactivator System to Study Essential Genes in Malaria Parasites. Cell Host and Microbe, 2012, 12, 824-834.	11.0	94
49	Recombination-Mediated Genetic Engineering of Plasmodium berghei DNA. Methods in Molecular Biology, 2012, 923, 127-138.	0.9	27
50	A Plasmodium Calcium-Dependent Protein Kinase Controls Zygote Development and Transmission by Translationally Activating Repressed mRNAs. Cell Host and Microbe, 2012, 12, 9-19.	11.0	163
51	Transmission of malaria to mosquitoes blocked by bumped kinase inhibitors. Journal of Clinical Investigation, 2012, 122, 2301-2305.	8.2	90
52	The Alveolin IMC1h Is Required for Normal Ookinete and Sporozoite Motility Behaviour and Host Colonisation in Plasmodium berghei. PLoS ONE, 2012, 7, e41409.	2.5	71
53	A scalable pipeline for highly effective genetic modification of a malaria parasite. Nature Methods, 2011, 8, 1078-1082.	19.0	93
54	Multiple roles for Plasmodium berghei phosphoinositide-specific phospholipase C in regulating gametocyte activation and differentiation. Cellular Microbiology, 2011, 13, 955-966.	2.1	51

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55	Genetic and transcriptional analysis of phosphoinositide-specific phospholipase C in Plasmodium. Experimental Parasitology, 2011, 129, 75-80.	1.2	28
56	Cutting Edge: The Membrane Attack Complex of Complement Is Required for the Development of Murine Experimental Cerebral Malaria. Journal of Immunology, 2011, 186, 6657-6660.	0.8	22
57	A parasite calcium switch and Achilles' heel revealed. Nature Structural and Molecular Biology, 2010, 17, 541-543.	8.2	3
58	The Systematic Functional Analysis of Plasmodium Protein Kinases Identifies Essential Regulators of Mosquito Transmission. Cell Host and Microbe, 2010, 8, 377-387.	11.0	267
59	An Essential Role for the Plasmodium Nek-2 Nima-related Protein Kinase in the Sexual Development of Malaria Parasites. Journal of Biological Chemistry, 2009, 284, 20858-20868.	3.4	94
60	A Cyclic GMP Signalling Module That Regulates Gliding Motility in a Malaria Parasite. PLoS Pathogens, 2009, 5, e1000599.	4.7	171
61	Quantitative assessment of DNA replication to monitor microgametogenesis in Plasmodium berghei. Molecular and Biochemical Parasitology, 2009, 168, 172-176.	1.1	30
62	The role of the cGMP-dependent protein kinase in development of the malaria parasite. BMC Pharmacology, 2009, 9, S2.	0.4	0
63	Calcium-Dependent Signaling and Kinases in Apicomplexan Parasites. Cell Host and Microbe, 2009, 5, 612-622.	11.0	295
64	Protein kinases of malaria parasites: an update. Trends in Parasitology, 2008, 24, 570-577.	3.3	104
65	The conserved plant sterility gene HAP2 functions after attachment of fusogenic membranes in Chlamydomonas and Plasmodium gametes. Genes and Development, 2008, 22, 1051-1068.	5.9	286
66	Gametogenesis in Malaria Parasites Is Mediated by the cGMP-Dependent Protein Kinase. PLoS Biology, 2008, 6, e139.	5.6	203
67	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
68	Plasmodium berghei calcium-dependent protein kinase 3 is required for ookinete gliding motility and mosquito midgut invasion. Molecular Microbiology, 2006, 60, 1355-1363.	2.5	141
69	Generation of gene targeting constructs for Plasmodium berghei by a PCR-based method amenable to high throughput applications. Molecular and Biochemical Parasitology, 2006, 145, 265-268.	1.1	27
70	Protein kinases as targets for antimalarial intervention: Kinomics, structure-based design, transmission-blockade, and targeting host cell enzymes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2005, 1754, 132-150.	2.3	78
71	An atypical mitogen-activated protein kinase controls cytokinesis and flagellar motility during male gamete formation in a malaria parasite. Molecular Microbiology, 2005, 58, 1253-1263.	2.5	127
72	A NIMA-related Protein Kinase Is Essential for Completion of the Sexual Cycle of Malaria Parasites. Journal of Biological Chemistry, 2005, 280, 31957-31964.	3.4	138

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73	Differential recognition of members of the carcinoembryonic antigen family by Afa/Dr adhesins of diffusely adhering Escherichia coli (Afa/Dr DAEC). Molecular Microbiology, 2004, 52, 963-983.	2.5	115
74	Isonicotinic acid hydrazide: an anti-tuberculosis drug inhibits malarial transmission in the mosquito gut. Experimental Parasitology, 2004, 106, 30-36.	1.2	17
75	Calcium and a Calcium-Dependent Protein Kinase Regulate Gamete Formation and Mosquito Transmission in a Malaria Parasite. Cell, 2004, 117, 503-514.	28.9	415
76	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. International Journal for Parasitology, 2003, 33, 933-943.	3.1	139
77	Nuclear Factor-ÎºB Directs Carcinoembryonic Antigen-related Cellular Adhesion Molecule 1 Receptor Expression inNeisseria gonorrhoeae-infected Epithelial Cells. Journal of Biological Chemistry, 2002, 277, 7438-7446.	3.4	37
78	Azadirachtin Disrupts Formation of Organised Microtubule Arrays during Microgametogenesis of Plasmodium berghei. Journal of Eukaryotic Microbiology, 2002, 49, 489-497.	1.7	75
79	Distinct mechanisms of internalization of Neisseria gonorrhoeae by members of the CEACAM receptor family involving Rac1- and Cdc42-dependent and -independent pathways. EMBO Journal, 2002, 21, 560-571.	7.8	74
80	Signal transduction pathways induced by virulence factors of Neisseria gonorrhoeae. International Journal of Medical Microbiology, 2001, 291, 307-314.	3.6	14
81	Both mosquito-derived xanthurenic acid and a host blood-derived factor regulate gametogenesis of Plasmodium in the midgut of the mosquito. Molecular and Biochemical Parasitology, 2001, 116, 17-24.	1.1	78
82	The structural basis of CEACAM-receptor targeting by neisserial Opa proteins. Trends in Microbiology, 2000, 8, 258-260.	7.7	49
83	Identification of xanthurenic acid as the putative inducer of malaria development in the mosquito. Nature, 1998, 392, 289-292.	27.8	530
84	Plasmodium berghei:Infectivity of Mice toAnopheles stephensiMosquitoes. Experimental Parasitology, 1996, 84, 371-379.	1.2	17
85	Gametocytes and Gametes. , 0, , 191-219.		19
86	Landscape of the <i>Plasmodium</i> Interactome. SSRN Electronic Journal, 0, , .	0.4	1