Chetan E Chitnis

List of Publications by Year
in descending order

126	7,046	57758	66911
papers	citations	44 h-index	78 g-index

150	150	150	5555
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Switches in expression of plasmodium falciparum var genes correlate with changes in antigenic and cytoadherent phenotypes of infected erythrocytes. Cell, 1995, 82, 101-110.	28.9	938
2	A Research Agenda to Underpin Malaria Eradication. PLoS Medicine, 2011, 8, e1000406.	8.4	565
3	Distinct External Signals Trigger Sequential Release of Apical Organelles during Erythrocyte Invasion by Malaria Parasites. PLoS Pathogens, 2010, 6, e1000746.	4.7	250
4	Structural basis for Duffy recognition by the malaria parasite Duffy-binding-like domain. Nature, 2006, 439, 741-744.	27.8	230
5	Identification and Prioritization of Merozoite Antigens as Targets of Protective Human Immunity to Plasmodium falciparum Malaria for Vaccine and Biomarker Development. Journal of Immunology, 2013, 191, 795-809.	0.8	213
6	Association between Naturally Acquired Antibodies to Erythrocyteâ€Binding Antigens ofPlasmodium falciparumand Protection from Malaria and Highâ€Density Parasitemia. Clinical Infectious Diseases, 2010, 51, e50-e60.	5.8	184
7	Plasmodium vivax Invasion of Human Erythrocytes Inhibited by Antibodies Directed against the Duffy Binding Protein. PLoS Medicine, 2007, 4, e337.	8.4	161
8	Phosphoproteomics reveals malaria parasite Protein Kinase G as a signalling hub regulating egress and invasion. Nature Communications, 2015, 6, 7285.	12.8	153
9	Naturally acquired Duffy-binding protein-specific binding inhibitory antibodies confer protection from blood-stage Plasmodium vivax infection. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8363-8368.	7.1	147
10	Sulphated tyrosines mediate association of chemokines and Plasmodium vivax Duffy binding protein with the Duffy antigen/receptor for chemokines (DARC). Molecular Microbiology, 2005, 55, 1413-1422.	2.5	136
11	Bacterially expressed and refolded receptor binding domain of Plasmodium falciparum EBA-175 elicits invasion inhibitory antibodies. Molecular and Biochemical Parasitology, 2002, 123, 23-33.	1.1	109
12	Perforinâ€like protein <scp>PPLP</scp> 2 permeabilizes the red blood cell membrane during egress of <scp> P </scp> lasmodium falciparum gametocytes. Cellular Microbiology, 2014, 16, 709-733.	2.1	106
13	Mapping binding residues in the Plasmodium vivax domain that binds Duffy antigen during red cell invasion. Molecular Microbiology, 2005, 55, 1423-1434.	2.5	104
14	Biochemical, Biophysical, and Functional Characterization of Bacterially Expressed and Refolded Receptor Binding Domain ofPlasmodium vivax Duffy-binding Protein. Journal of Biological Chemistry, 2001, 276, 17111-17116.	3.4	92
15	Targeting the Plasmodium vivax Duffy-binding protein. Trends in Parasitology, 2008, 24, 29-34.	3.3	90
16	Development and validation of serological markers for detecting recent Plasmodium vivax infection. Nature Medicine, 2020, 26, 741-749.	30.7	90
17	Current status ofPlasmodium vivaxvaccine. Hum Vaccin, 2010, 6, 124-132.	2.4	86
18	Characterization of Plasmodium falciparum Calcium-dependent Protein Kinase 1 (PfCDPK1) and Its Role in Microneme Secretion during Erythrocyte Invasion. Journal of Biological Chemistry, 2013, 288, 1590-1602.	3.4	86

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19	Development of vaccines for Plasmodium vivax malaria. Vaccine, 2015, 33, 7489-7495.	3.8	86
20	Calcium-dependent permeabilization of erythrocytes by a perforin-like protein during egress of malaria parasites. Nature Communications, 2013, 4, 1736.	12.8	84
21	Targeting TLRs Expands the Antibody Repertoire in Response to a Malaria Vaccine. Science Translational Medicine, 2011, 3, 93ra69.	12.4	83
22	The Central Role of cAMP in Regulating Plasmodium falciparum Merozoite Invasion of Human Erythrocytes. PLoS Pathogens, 2014, 10, e1004520.	4.7	81
23	Human vaccination against Plasmodium vivax Duffy-binding protein induces strain-transcending antibodies. JCI Insight, 2017, 2, .	5.0	78
24	Molecular interactions and signaling mechanisms during erythrocyte invasion by malaria parasites. Current Opinion in Microbiology, 2011, 14, 422-428.	5.1	76
25	Plasmodium falciparum Uses gC1qR/HABP1/p32 as a Receptor to Bind to Vascular Endothelium and for Platelet-Mediated Clumping. PLoS Pathogens, 2007, 3, e130.	4.7	75
26	Key molecular events during host cell invasion by Apicomplexan pathogens. Current Opinion in Microbiology, 2013, 16, 432-437.	5.1	75
27	Molecular insights into receptors used by malaria parasites for erythrocyte invasion. Current Opinion in Hematology, 2001, 8, 85-91.	2.5	74
28	Targeted deletion ofPlasmodium knowlesiDuffy binding protein confirms its role in junction formation during invasion. Molecular Microbiology, 2005, 55, 1925-1934.	2.5	74
29	Bacterially Expressed Full-Length Recombinant Plasmodium falciparum RH5 Protein Binds Erythrocytes and Elicits Potent Strain-Transcending Parasite-Neutralizing Antibodies. Infection and Immunity, 2014, 82, 152-164.	2.2	69
30	Identification of highly-protective combinations of Plasmodium vivax recombinant proteins for vaccine development. ELife, 2017, 6, .	6.0	64
31	Changing Trends inP. falciparumBurden, Immunity, and Disease in Pregnancy. New England Journal of Medicine, 2015, 373, 1607-1617.	27.0	63
32	Malaria vaccine R&D in the Decade of Vaccines: Breakthroughs, challenges and opportunities. Vaccine, 2013, 31, B233-B243.	3.8	60
33	Plasmodium falciparum Reticulocyte Binding-Like Homologue Protein 2 (PfRH2) Is a Key Adhesive Molecule Involved in Erythrocyte Invasion. PLoS ONE, 2011, 6, e17102.	2.5	59
34	Plasmodium Merozoite TRAP Family Protein Is Essential for Vacuole Membrane Disruption and Gamete Egress from Erythrocytes. Cell Host and Microbe, 2016, 20, 618-630.	11.0	59
35	The Requirement for Potent Adjuvants To Enhance the Immunogenicity and Protective Efficacy of Protein Vaccines Can Be Overcome by Prior Immunization with a Recombinant Adenovirus. Journal of Immunology, 2011, 187, 2602-2616.	0.8	55
36	Differential Patterns of IgG Subclass Responses to Plasmodium falciparum Antigens in Relation to Malaria Protection and RTS,S Vaccination. Frontiers in Immunology, 2019, 10, 439.	4.8	55

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37	Evaluation of immune responses elicited in mice against a recombinant malaria vaccine based on Plasmodium vivax Duffy binding protein. Vaccine, 2004, 22, 3727-3737.	3.8	54
38	Ca²⁺-mediated exocytosis of subtilisin-like protease 1: a key step in egress ofPlasmodium falciparummerozoites. Cellular Microbiology, 2013, 15, 910-921.	2.1	53
39	Low antibodies against Plasmodium falciparum and imbalanced pro-inflammatory cytokines are associated with severe malaria in Mozambican children: a caseâ€“control study. Malaria Journal, 2012, 11, 181.	2.3	52
40	Malaria vaccine candidate based on Duffy-binding protein elicits strain transcending functional antibodies in a Phase I trial. Npj Vaccines, 2018, 3, 48.	6.0	52
41	COMPARISON OF IgG REACTIVITIES TO PLASMODIUM VIVAX MEROZOITE INVASION ANTIGENS IN A BRAZILIAN AMAZON POPULATION. American Journal of Tropical Medicine and Hygiene, 2005, 73, 244-255.	1.4	52
42	Identification of a Potent Combination of Key Plasmodium falciparum Merozoite Antigens That Elicit Strain-Transcending Parasite-Neutralizing Antibodies. Infection and Immunity, 2013, 81, 441-451.	2.2	51
43	IMMUNOGENICITY AND PROTECTIVE EFFICACY OF RECOMBINANT VACCINE BASED ON THE RECEPTOR-BINDING DOMAIN OF THE PLASMODIUM VIVAX DUFFY BINDING PROTEIN IN AOTUS MONKEYS. American Journal of Tropical Medicine and Hygiene, 2005, 73, 25-31.	1.4	51
44	Antibodies raised against receptor-binding domain of Plasmodium knowlesi Duffy binding protein inhibit erythrocyte invasion. Molecular and Biochemical Parasitology, 2002, 121, 21-31.	1.1	49
45	Association of Severe Malaria Outcomes with Platelet-Mediated Clumping and Adhesion to a Novel Host Receptor. PLoS ONE, 2011, 6, e19422.	2.5	49
46	Burden and impact of Plasmodium vivax in pregnancy: A multi-centre prospective observational study. PLoS Neglected Tropical Diseases, 2017, 11, e0005606.	3.0	46
47	Preclinical Assessment of Viral Vectored and Protein Vaccines Targeting the Duffy-Binding Protein Region II of Plasmodium Vivax. Frontiers in Immunology, 2015, 6, 348.	4.8	44
48	The Effect of Intermittent Preventive Treatment during Pregnancy on Malarial Antibodies Depends on HIV Status and Is Not Associated with Poor Delivery Outcomes. Journal of Infectious Diseases, 2010, 201, 123-131.	4.0	42
49	Differing rates of antibody acquisition to merozoite antigens in malaria: implications for immunity and surveillance. Journal of Leukocyte Biology, 2017, 101, 913-925.	3.3	41
50	Immunogenicity of Duffy Binding-Like Domains That Bind Chondroitin Sulfate A and Protection against Pregnancy-Associated Malaria. Infection and Immunity, 2006, 74, 5955-5963.	2.2	39
51	Parity and Placental Infection Affect Antibody Responses againstPlasmodium falciparumduring Pregnancy. Infection and Immunity, 2011, 79, 1654-1659.	2.2	38
52	Improved Pregnancy Outcomes in Women Exposed to Malaria With High Antibody Levels Against Plasmodium falciparum. Journal of Infectious Diseases, 2013, 207, 1664-1674.	4.0	38
53	A thrombospondin structural repeat containing rhoptry protein fromPlasmodium falciparummediates erythrocyte invasion. Cellular Microbiology, 2013, 15, 1341-1356.	2.1	38
54	Comparison of IgG reactivities to Plasmodium vivax merozoite invasion antigens in a Brazilian Amazon population. American Journal of Tropical Medicine and Hygiene, 2005, 73, 244-55.	1.4	38

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55	Genetic diversity in two Plasmodium vivax protein ligands for reticulocyte invasion. PLoS Neglected Tropical Diseases, 2018, 12, e0006555.	3.0	35
56	Immunogenicity of Plasmodium vivax combination subunit vaccine formulated with human compatible adjuvants in mice. Vaccine, 2007, 25, 5166-5174.	3.8	34
57	Age-Dependent IgG Subclass Responses to Plasmodium falciparum EBA-175 Are Differentially Associated with Incidence of Malaria in Mozambican Children. Vaccine Journal, 2012, 19, 157-166.	3.1	34
58	Pregnancy and Malaria Exposure Are Associated with Changes in the B Cell Pool and in Plasma Eotaxin Levels. Journal of Immunology, 2014, 193, 2971-2983.	0.8	34
59	Malaria and HIV Infection in Mozambican Pregnant Women Are Associated With Reduced Transfer of Antimalarial Antibodies to Their Newborns. Journal of Infectious Diseases, 2015, 211, 1004-1014.	4.0	34
60	Signalling mechanisms involved in apical organelle discharge during host cell invasion by apicomplexan parasites. Microbes and Infection, 2012, 14, 820-824.	1.9	33
61	Cytoadhesion to gC1qR through Plasmodium falciparum Erythrocyte Membrane Protein 1 in Severe Malaria. PLoS Pathogens, 2016, 12, e1006011.	4.7	33
62	Impact of Intermittent Preventive Treatment with Sulfadoxine-Pyrimethamine on Antibody Responses to Erythrocytic-StagePlasmodium falciparumAntigens in Infants in Mozambique. Vaccine Journal, 2008, 15, 1282-1291.	3.1	32
63	Impact of the RTS,S Malaria Vaccine Candidate on Naturally Acquired Antibody Responses to Multiple Asexual Blood Stage Antigens. PLoS ONE, 2011, 6, e25779.	2.5	32
64	Phase I Clinical Trial of a Recombinant Blood Stage Vaccine Candidate for Plasmodium falciparum Malaria Based on MSP1 and EBA175. PLoS ONE, 2015, 10, e0117820.	2.5	32
65	Amplification of Duffy binding protein-encoding gene allows Plasmodium vivax to evade host anti-DBP humoral immunity. Nature Communications, 2020, 11, 953.	12.8	31
66	A high cell density fermentation strategy to produce recombinant malarial antigen in E. coli. Biotechnology Letters, 2004, 26, 1891-1895.	2.2	30
67	The Role of Age and Exposure to Plasmodium falciparum in the Rate of Acquisition of Naturally Acquired Immunity: A Randomized Controlled Trial. PLoS ONE, 2012, 7, e32362.	2.5	30
68	RTS,S/AS01E immunization increases antibody responses to vaccine-unrelated Plasmodium falciparum antigens associated with protection against clinical malaria in African children: a case-control study. BMC Medicine, 2019, 17, 157.	5.5	30
69	Cytokine and Antibody Responses to Plasmodium falciparum in NaÃ¯ve Individuals during a First Malaria Episode: Effect of Age and Malaria Exposure. PLoS ONE, 2013, 8, e55756.	2.5	29
70	Antibody responses to Plasmodium vivax Duffy binding and Erythrocyte binding proteins predict risk of infection and are associated with protection from clinical Malaria. PLoS Neglected Tropical Diseases, 2019, 13, e0006987.	3.0	29
71	Glycan Masking of Plasmodium vivax Duffy Binding Protein for Probing Protein Binding Function and Vaccine Development. PLoS Pathogens, 2013, 9, e1003420.	4.7	28
72	Role of calcineurin and actin dynamics in regulated secretion of microneme proteins inPlasmodium falciparummerozoites during erythrocyte invasion. Cellular Microbiology, 2014, 16, 50-63.	2.1	28

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73	Functional and Immunological Characterization of a Duffy Binding-Like Alpha Domain from Plasmodium falciparum Erythrocyte Membrane Protein 1 That Mediates Rosetting. Infection and Immunity, 2009, 77, 3857-3863.	2.2	27
74	Immunogenicity of a recombinant malaria vaccine based on receptor binding domain of Plasmodium falciparum EBA-175. Vaccine, 2007, 25, 806-813.	3.8	26
75	High Antibody Responses against Plasmodium falciparum in Immigrants after Extended Periods of Interrupted Exposure to Malaria. PLoS ONE, 2013, 8, e73624.	2.5	25
76	Calcium-dependent phosphorylation of Plasmodium falciparum serine repeat antigen 5 triggers merozoite egress. Journal of Biological Chemistry, 2018, 293, 9736-9746.	3.4	25
77	Molecular mechanisms that mediate invasion and egress of malaria parasites from red blood cells. Current Opinion in Hematology, 2017, 24, 208-214.	2.5	24
78	Role of a patatin-like phospholipase in Plasmodium falciparum gametogenesis and malaria transmission. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17498-17508.	7.1	24
79	Improvement in Yield and Purity of a Recombinant Malaria Vaccine Candidate Based on the Receptor-Binding Domain of Plasmodium vivax Duffy Binding Protein by Codon Optimization. Biotechnology Letters, 2006, 28, 1109-1114.	2.2	22
80	Targeting a Reticulocyte Binding Protein and Duffy Binding Protein to Inhibit Reticulocyte Invasion by Plasmodium vivax. Scientific Reports, 2018, 8, 10511.	3.3	20
81	Using health facility-based serological surveillance to predict receptive areas at risk of malaria outbreaks in elimination areas. BMC Medicine, 2020, 18, 9.	5.5	20
82	Reduction of Antimalarial Antibodies by HIV Infection Is Associated With Increased Risk of Plasmodium falciparum Cord Blood Infection. Journal of Infectious Diseases, 2012, 205, 568-577.	4.0	19
83	Proinflammatory Responses and Higher IL-10 Production by T Cells Correlate with Protection against Malaria during Pregnancy and Delivery Outcomes. Journal of Immunology, 2015, 194, 3275-3285.	0.8	19
84	Optimization of incubation conditions of Plasmodium falciparum antibody multiplex assays to measure IgG, IgG1â€“4, IgM and IgE using standard and customized reference pools for sero-epidemiological and vaccine studies. Malaria Journal, 2018, 17, 219.	2.3	19
85	Localization of apical sushi protein in Plasmodium falciparum merozoites. Molecular and Biochemical Parasitology, 2010, 174, 66-69.	1.1	18
86	Impact of age of first exposure to Plasmodium falciparum on antibody responses to malaria in children: a randomized, controlled trial in Mozambique. Malaria Journal, 2014, 13, 121.	2.3	18
87	Identifying Immune Correlates of Protection Against Plasmodium falciparum Through a Novel Approach to Account for Heterogeneity in Malaria Exposure. Clinical Infectious Diseases, 2018, 66, 586-593.	5.8	18
88	Molecular Signaling Involved in Entry and Exit of Malaria Parasites from Host Erythrocytes. Cold Spring Harbor Perspectives in Medicine, 2017, 7, a026815.	6.2	17
89	Analysis of factors affecting the variability of a quantitative suspension bead array assay measuring IgG to multiple Plasmodium antigens. PLoS ONE, 2018, 13, e0199278.	2.5	16
90	Reticulocytes from cryopreserved erythroblasts support Plasmodium vivax infection in vitro. Parasitology International, 2014, 63, 278-284.	1.3	15

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91	Workshop report: Malaria vaccine development in Europeâ€“preparing for the future. Vaccine, 2015, 33, 6137-6144.	3.8	15
92	Production of recombinant PvDBPII, receptor binding domain of Plasmodium vivax Duffy binding protein, and evaluation of immunogenicity to identify an adjuvant formulation for vaccine development. Protein Expression and Purification, 2017, 136, 52-57.	1.3	15
93	A comparison of non-magnetic and magnetic beads for measuring IgG antibodies against Plasmodium vivax antigens in a multiplexed bead-based assay using Luminex technology (Bio-Plex 200 or MAGPIX). PLoS ONE, 2020, 15, e0238010.	2.5	15
94	Assessment of the Combined Effect of Epsteinâ€“Barr Virus and Plasmodium falciparum Infections on Endemic Burkitt Lymphoma Using a Multiplex Serological Approach. Frontiers in Immunology, 2017, 8, 1284.	4.8	13
95	Phosphorylation-Dependent Assembly of a 14-3-3 Mediated Signaling Complex during Red Blood Cell Invasion by Plasmodium falciparum Merozoites. MBio, 2020, 11, .	4.1	13
96	DEVELOPMENT OF QUANTITATIVE RECEPTOR-LIGAND BINDING ASSAY FOR USE AS A TOOL TO ESTIMATE IMMUNE RESPONSES AGAINSTPlasmodium vivaxDUFFY BINDING PROTEIN REGION II. Journal of Immunoassay and Immunochemistry, 2012, 33, 403-413.	1.1	12
97	Microsatellite Genotyping of Plasmodium vivax Isolates from Pregnant Women in Four Malaria Endemic Countries. PLoS ONE, 2016, 11, e0152447.	2.5	12
98	Molecular basis of severe malaria. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10130-10131.	7.1	11
99	Recombinant measles vaccine expressing malaria antigens induces long-term memory and protection in mice. Npj Vaccines, 2019, 4, 12.	6.0	11
100	Potential role of vaccines in elimination of Plasmodium vivax. Parasitology International, 2022, 90, 102592.	1.3	10
101	Human peroxiredoxin 6 is essential for malaria parasites and provides a host-based drug target. Cell Reports, 2022, 39, 110923.	6.4	10
102	Application of 23 Novel Serological Markers for Identifying Recent Exposure to Plasmodium vivax Parasites in an Endemic Population of Western Thailand. Frontiers in Microbiology, 2021, 12, 643501.	3.5	9
103	VAR2CSA Serology to Detect Plasmodium falciparum Transmission Patterns in Pregnancy. Emerging Infectious Diseases, 2019, 25, 1851-1860.	4.3	8
104	Cytokine signatures ofÂPlasmodium vivax infection during pregnancy and delivery outcomes. PLoS Neglected Tropical Diseases, 2020, 14, e0008155.	3.0	8
105	IgG Antibody Responses Are Preferential Compared With IgM for Use as Serological Markers for Detecting Recent Exposure to Plasmodium vivax Infection. Open Forum Infectious Diseases, 2021, 8, ofab228.	0.9	8
106	Plasmodium falciparum and Helminth Coinfections Increase IgE and Parasite-Specific IgG Responses. Microbiology Spectrum, 2021, 9, e0110921.	3.0	8
107	Development of Blood Stage Malaria Vaccines. Methods in Molecular Biology, 2019, 2013, 199-218.	0.9	7
108	Naturally acquired antibody kinetics against Plasmodium vivax antigens in people from a low malaria transmission region in western Thailand. BMC Medicine, 2022, 20, 89.	5.5	7

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109	IgM and IgG against Plasmodium falciparum lysate as surrogates of malaria exposure and protection during pregnancy. Malaria Journal, 2018, 17, 182.	2.3	6
110	Protein S-Palmitoylation Is Responsive to External Signals and Plays a Regulatory Role in Microneme Secretion in Plasmodium falciparum Merozoites. ACS Infectious Diseases, 2020, 6, 379-392.	3.8	6
111	Plasmodium vivax malaria serological exposure markers: Assessing the degree and implications of cross-reactivity with P.Âknowlesi. Cell Reports Medicine, 2022, 3, 100662.	6.5	6
112	Dealing with change: the different microenvironments faced by the malarial parasite. Molecular Microbiology, 2013, 88, 1-4.	2.5	5
113	Talking to Each Other to Initiate Sexual Differentiation. Cell, 2013, 153, 945-947.	28.9	5
114	Flow Cytometry-Based Methods for Measurement of Cytosolic Calcium and Surface Protein Expression in Plasmodium falciparum Merozoites. Methods in Molecular Biology, 2012, 923, 281-290.	0.9	4
115	Blood cytokine, chemokine and growth factor profiling in a cohort of pregnant women from tropical countries. Cytokine, 2020, 125, 154818.	3.2	4
116	Host age and expression of genes involved in red blood cell invasion in Plasmodium falciparum field isolates. Scientific Reports, 2017, 7, 4717.	3.3	3
117	cAMP-Dependent Signaling Pathways as Potential Targets for Inhibition of Plasmodium falciparum Blood Stages. Frontiers in Microbiology, 2021, 12, 684005.	3.5	3
118	Evaluation of antibody serology to determine current helminth and Plasmodium falciparum infections in a co-endemic area in Southern Mozambique. PLoS Neglected Tropical Diseases, 2022, 16, e0010138.	3.0	3
119	Purification and antiparasitic activity of a few legume serine proteinase inhibitors: Effect on erythrocyte invasion, schizont rupture and proteolytic processing of the Plasmodium falciparum AMA1 protein. Process Biochemistry, 2017, 57, 207-218.	3.7	1
120	Molecular Pathogenesis of Malaria. , 0, , 196-207.		0
121	Title is missing!. , 2020, 15, e0238010.		0
122	Title is missing!. , 2020, 15, e0238010.		0
123	Title is missing!. , 2020, 15, e0238010.		0
124	Title is missing!. , 2020, 15, e0238010.		0
125	Title is missing!. , 2020, 15, e0238010.		0
126	Title is missing!. , 2020, 15, e0238010.		0