

# Peter D Crompton

## List of Publications by Year in descending order

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79  
papers

6,347  
citations

76326

40  
h-index

76900

74  
g-index

86  
all docs

86  
docs citations

86  
times ranked

6308  
citing authors

#	ARTICLE	IF	CITATIONS
1	A prospective analysis of the Ab response to <i>Plasmodium falciparum</i> before and after a malaria season by protein microarray. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6958-6963.	7.1	412
2	Atypical Memory B Cells Are Greatly Expanded in Individuals Living in a Malaria-Endemic Area. Journal of Immunology, 2009, 183, 2176-2182.	0.8	398
3	Gut Microbiota Elicits a Protective Immune Response against Malaria Transmission. Cell, 2014, 159, 1277-1289.	28.9	279
4	Chronic Exposure to <i>Plasmodium falciparum</i> Is Associated with Phenotypic Evidence of B and T Cell Exhaustion. Journal of Immunology, 2013, 190, 1038-1047.	0.8	261
5	Malaria-associated atypical memory B cells exhibit markedly reduced B cell receptor signaling and effector function. ELife, 2015, 4, .	6.0	260
6	Malaria Immunity in Man and Mosquito: Insights into Unsolved Mysteries of a Deadly Infectious Disease. Annual Review of Immunology, 2014, 32, 157-187.	21.8	257
7	Somatically Hypermutated Plasmodium-Specific IgM+ Memory B Cells Are Rapid, Plastic, Early Responders upon Malaria Rechallenge. Immunity, 2016, 45, 402-414.	14.3	229
8	The Plasmodium falciparum-Specific Human Memory B Cell Compartment Expands Gradually with Repeated Malaria Infections. PLoS Pathogens, 2010, 6, e1000912.	4.7	221
9	An Intensive Longitudinal Cohort Study of Malian Children and Adults Reveals No Evidence of Acquired Immunity to Plasmodium falciparum Infection. Clinical Infectious Diseases, 2013, 57, 40-47.	5.8	218
10	Advances and challenges in malaria vaccine development. Journal of Clinical Investigation, 2010, 120, 4168-4178.	8.2	211
11	Circulating Th1-Cell-type Tfh Cells that Exhibit Impaired B Cell Help Are Preferentially Activated during Acute Malaria in Children. Cell Reports, 2015, 13, 425-439.	6.4	206
12	Novel serologic biomarkers provide accurate estimates of recent <i>Plasmodium falciparum</i> exposure for individuals and communities. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4438-47.	7.1	188
13	Atypical memory B cells in human chronic infectious diseases: An interim report. Cellular Immunology, 2017, 321, 18-25.	3.0	157
14	Exposure-Dependent Control of Malaria-Induced Inflammation in Children. PLoS Pathogens, 2014, 10, e1004079.	4.7	153
15	Malaria-induced interferon- $\gamma$ drives the expansion of Tbethi atypical memory B cells. PLoS Pathogens, 2017, 13, e1006576.	4.7	139
16	Young Lives Lost as B Cells Falter: What We Are Learning About Antibody Responses in Malaria. Journal of Immunology, 2013, 190, 3039-3046.	0.8	122
17	Broadly neutralizing antibodies target the coronavirus fusion peptide. Science, 2022, 377, 728-735.	12.6	111
18	Naturally Acquired Antibodies Specific for Plasmodium falciparum Reticulocyte-Binding Protein Homologue 5 Inhibit Parasite Growth and Predict Protection From Malaria. Journal of Infectious Diseases, 2014, 209, 789-798.	4.0	108

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19	Regulatory T cells impede acute and long-term immunity to blood-stage malaria through CTLA-4. <i>Nature Medicine</i> , 2017, 23, 1220-1225.	30.7	107
20	Sickle Cell Trait Is Associated with a Delayed Onset of Malaria: Implications for Time-to-Event Analysis in Clinical Studies of Malaria. <i>Journal of Infectious Diseases</i> , 2008, 198, 1265-1275.	4.0	96
21	PD-1 Co-inhibitory and OX40 Co-stimulatory Crosstalk Regulates Helper T Cell Differentiation and Anti-Plasmodium Humoral Immunity. <i>Cell Host and Microbe</i> , 2015, 17, 628-641.	11.0	94
22	NK cells inhibit <i>Plasmodium falciparum</i> growth in red blood cells via antibody-dependent cellular cytotoxicity. <i>ELife</i> , 2018, 7, .	6.0	92
23	Public antibodies to malaria antigens generated by two LAIR1 insertion modalities. <i>Nature</i> , 2017, 548, 597-601.	27.8	91
24	Increased circulation time of <i>Plasmodium falciparum</i> underlies persistent asymptomatic infection in the dry season. <i>Nature Medicine</i> , 2020, 26, 1929-1940.	30.7	91
25	Stool microbiota composition is associated with the prospective risk of <i>Plasmodium falciparum</i> infection. <i>BMC Genomics</i> , 2015, 16, 631.	2.8	90
26	Transcriptomic evidence for modulation of host inflammatory responses during febrile <i>Plasmodium falciparum</i> malaria. <i>Scientific Reports</i> , 2016, 6, 31291.	3.3	85
27	Adaptive NK cells in people exposed to <i>Plasmodium falciparum</i> correlate with protection from malaria. <i>Journal of Experimental Medicine</i> , 2019, 216, 1280-1290.	8.5	80
28	Bispecific antibodies targeting distinct regions of the spike protein potentially neutralize SARS-CoV-2 variants of concern. <i>Science Translational Medicine</i> , 2021, 13, eabj5413.	12.4	79
29	A Positive Correlation between Atypical Memory B Cells and <i>Plasmodium falciparum</i> Transmission Intensity in Cross-Sectional Studies in Peru and Mali. <i>PLoS ONE</i> , 2011, 6, e15983.	2.5	77
30	The TLR9 Ligand CpG Promotes the Acquisition of <i>Plasmodium falciparum</i> -Specific Memory B Cells in Malaria-Naïve Individuals. <i>Journal of Immunology</i> , 2009, 182, 3318-3326.	0.8	73
31	<i>In Vitro</i> Growth-Inhibitory Activity and Malaria Risk in a Cohort Study in Mali. <i>Infection and Immunity</i> , 2010, 78, 737-745.	2.2	67
32	A Molecular Signature in Blood Reveals a Role for p53 in Regulating Malaria-Induced Inflammation. <i>Immunity</i> , 2019, 51, 750-765.e10.	14.3	67
33	Treatment of Chronic Asymptomatic <i>Plasmodium falciparum</i> Infection Does Not Increase the Risk of Clinical Malaria Upon Reinfection. <i>Clinical Infectious Diseases</i> , 2017, 64, 645-653.	5.8	65
34	Assessment of Mercury Exposure and Malaria in a Brazilian Amazon Riverine Community. <i>Environmental Research</i> , 2002, 90, 69-75.	7.5	55
35	Genetic Resistance to Malaria Is Associated With Greater Enhancement of Immunoglobulin (Ig)M Than IgG Responses to a Broad Array of <i>Plasmodium falciparum</i> Antigens. <i>Open Forum Infectious Diseases</i> , 2015, 2, ofv118.	0.9	51
36	<i>Plasmodium falciparum</i> Malaria in the Peruvian Amazon, a Region of Low Transmission, Is Associated with Immunologic Memory. <i>Infection and Immunity</i> , 2012, 80, 1583-1592.	2.2	50

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37	Synergistic malaria vaccine combinations identified by systematic antigen screening. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12045-12050.	7.1	49
38	Atypical activation of dendritic cells by <i>Plasmodium falciparum</i> . Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10568-E10577.	7.1	49
39	The TLR9 agonist CpG fails to enhance the acquisition of <i>Plasmodium falciparum</i> -specific memory B cells in semi-immune adults in Mali. Vaccine, 2009, 27, 7299-7303.	3.8	48
40	A nested real-time PCR assay for the quantification of <i>Plasmodium falciparum</i> DNA extracted from dried blood spots. Malaria Journal, 2014, 13, 393.	2.3	46
41	<i>Plasmodium falciparum</i> signal peptide peptidase is a promising drug target against blood stage malaria. Biochemical and Biophysical Research Communications, 2009, 380, 454-459.	2.1	45
42	<i>Plasmodium falciparum</i> -specific IgM B cells dominate in children, expand with malaria, and produce functional IgM. Journal of Experimental Medicine, 2021, 218, .	8.5	44
43	Hemoglobin S and C Heterozygosity Enhances Neither the Magnitude nor Breadth of Antibody Responses to a Diverse Array of <i>Plasmodium falciparum</i> Antigens. Journal of Infectious Diseases, 2011, 204, 1750-1761.	4.0	41
44	RTS,S Vaccination Is Associated With Serologic Evidence of Decreased Exposure to <i>Plasmodium falciparum</i> Liver- and Blood-Stage Parasites*. Molecular and Cellular Proteomics, 2015, 14, 519-531.	3.8	40
45	<i>Plasmodium falciparum</i> malaria drives epigenetic reprogramming of human monocytes toward a regulatory phenotype. PLoS Pathogens, 2021, 17, e1009430.	4.7	40
46	Co-infection of Long-Term Carriers of <i>Plasmodium falciparum</i> with <i>Schistosoma haematobium</i> Enhances Protection from Febrile Malaria: A Prospective Cohort Study in Mali. PLoS Neglected Tropical Diseases, 2014, 8, e3154.	3.0	37
47	Emerging concepts in T follicular helper cell responses to malaria. International Journal for Parasitology, 2017, 47, 105-110.	3.1	36
48	Systems immunology of human malaria. Trends in Parasitology, 2012, 28, 248-257.	3.3	34
49	Ethnic differences in susceptibility to malaria: What have we learned from immuno-epidemiological studies in West Africa?. Acta Tropica, 2015, 146, 152-156.	2.0	34
50	High efficiency human memory B cell assay and its application to studying <i>Plasmodium falciparum</i> -specific memory B cells in natural infections. Journal of Immunological Methods, 2012, 375, 68-74.	1.4	31
51	<i>Plasmodium falciparum</i> Gametocyte-Specific Antibody Profiling Reveals Boosting through Natural Infection and Identifies Potential Markers of Gametocyte Exposure. Infection and Immunity, 2015, 83, 4229-4236.	2.2	24
52	Whole-blood transcriptomic signatures induced during immunization by chloroquine prophylaxis and <i>Plasmodium falciparum</i> sporozoites. Scientific Reports, 2019, 9, 8386.	3.3	24
53	Multimeric antibodies from antigen-specific human IgM+ memory B cells restrict <i>Plasmodium</i> parasites. Journal of Experimental Medicine, 2021, 218, .	8.5	23
54	Mining, visualizing and comparing multidimensional biomolecular data using the Genomics Data Miner (GMine) Web-Server. Scientific Reports, 2016, 6, 38178.	3.3	22

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55	Malaria Vaccines: Moving Forward After Encouraging First Steps. <i>Current Tropical Medicine Reports</i> , 2015, 2, 1-3.	3.7	21
56	Transient Cannabinoid Receptor 2 Blockade during Immunization Heightens Intensity and Breadth of Antigen-specific Antibody Responses in Young and Aged mice. <i>Scientific Reports</i> , 2017, 7, 42584.	3.3	21
57	Functional human IgA targets a conserved site on malaria sporozoites. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	21
58	Longitudinal analysis of naturally acquired PfEMP1 CIDR domain variant antibodies identifies associations with malaria protection. <i>JCI Insight</i> , 2020, 5, .	5.0	20
59	Atypical B cells up-regulate costimulatory molecules during malaria and secrete antibodies with T follicular helper cell support. <i>Science Immunology</i> , 2022, 7, eabn1250.	11.9	20
60	HIV Malaria Co-Infection Is Associated with Atypical Memory B Cell Expansion and a Reduced Antibody Response to a Broad Array of Plasmodium falciparum Antigens in Rwandan Adults. <i>PLoS ONE</i> , 2015, 10, e0124412.	2.5	18
61	Design and implementation of multiplexed amplicon sequencing panels to serve genomic epidemiology of infectious disease: A malaria case study. <i>Molecular Ecology Resources</i> , 2022, 22, 2285-2303.	4.8	18
62	Decoding the complexities of human malaria through systems immunology. <i>Immunological Reviews</i> , 2020, 293, 144-162.	6.0	17
63	Impact of Acute Malaria on Pre-Existing Antibodies to Viral and Vaccine Antigens in Mice and Humans. <i>PLoS ONE</i> , 2015, 10, e0125090.	2.5	16
64	Immune Signature Against Plasmodium falciparum Antigens Predicts Clinical Immunity in Distinct Malaria Endemic Communities. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 101-113.	3.8	16
65	Repeated <i>Plasmodium falciparum</i> infection in humans drives the clonal expansion of an adaptive $\gamma\delta$ T cell repertoire. <i>Science Translational Medicine</i> , 2021, 13, eabe7430.	12.4	16
66	The Regulation of Inherently Autoreactive VH4-34-Expressing B Cells in Individuals Living in a Malaria-Endemic Area of West Africa. <i>Journal of Immunology</i> , 2016, 197, 3841-3849.	0.8	15
67	PD-1 Expression on NK Cells in Malaria-Exposed Individuals Is Associated with Diminished Natural Cytotoxicity and Enhanced Antibody-Dependent Cellular Cytotoxicity. <i>Infection and Immunity</i> , 2020, 88, .	2.2	15
68	Does Atelectasis Cause Fever After Surgery? Putting a Damper on Dogma. <i>JAMA Surgery</i> , 2019, 154, 375.	4.3	12
69	Protein-Specific Features Associated with Variability in Human Antibody Responses to Plasmodium falciparum Malaria Antigens. <i>American Journal of Tropical Medicine and Hygiene</i> , 2018, 98, 57-66.	1.4	10
70	Extent and Dynamics of Polymorphism in the Malaria Vaccine Candidate Plasmodium falciparum Reticulocyte-Binding Protein Homologue-5 in Kalifabougou, Mali. <i>American Journal of Tropical Medicine and Hygiene</i> , 2018, 99, 43-50.	1.4	10
71	A Streamlined Approach to Antibody Novel Germline Allele Prediction and Validation. <i>Frontiers in Immunology</i> , 2017, 8, 1072.	4.8	9
72	Structural basis of malaria RIFIN binding by LILRB1-containing antibodies. <i>Nature</i> , 2021, 592, 639-643.	27.8	8

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73	PD-L2 Elbows out PD-L1 to Rescue T Cell Immunity to Malaria. <i>Immunity</i> , 2016, 45, 231-233.	14.3	7
74	A novel population of memory-activated natural killer cells associated with low parasitaemia in <i>Plasmodium falciparum</i> -exposed sickle cell trait children. <i>Clinical and Translational Immunology</i> , 2020, 9, e1125.	3.8	7
75	A genotyping assay to determine geographic origin and transmission potential of <i>Plasmodium falciparum</i> malaria cases. <i>Communications Biology</i> , 2021, 4, 1145.	4.4	7
76	Dendritic cell responses to <i>Plasmodium falciparum</i> in a malaria-endemic setting. <i>Malaria Journal</i> , 2021, 20, 9.	2.3	5
77	Evolutionarily Selected Overexpression of the Cytokine BAFF Enhances Mucosal Immune Response Against <i>P. falciparum</i> . <i>Frontiers in Immunology</i> , 2020, 11, 575103.	4.8	4
78	Memory CD8 <sup>+</sup> T cell compartment associated with delayed onset of <i>Plasmodium falciparum</i> infection and better parasite control in sickle cell trait children. <i>Clinical and Translational Immunology</i> , 2021, 10, e1265.	3.8	1
79	What goes around comes around: modeling malaria transmission from humans back to mosquitos. <i>Journal of Clinical Investigation</i> , 2018, 128, 1264-1266.	8.2	1