

Peter D Crompton

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

6,347
citations

76294

40
h-index

76872

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. | 3.3 | 412 |
| 2 | Atypical Memory B Cells Are Greatly Expanded in Individuals Living in a Malaria-Endemic Area. Journal of Immunology, 2009, 183, 2176-2182. | 0.4 | 398 |
| 3 | Gut Microbiota Elicits a Protective Immune Response against Malaria Transmission. Cell, 2014, 159, 1277-1289. | 13.5 | 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. | 0.4 | 261 |
| 5 | Malaria-associated atypical memory B cells exhibit markedly reduced B cell receptor signaling and effector function. ELife, 2015, 4, . | 2.8 | 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. | 9.5 | 257 |
| 7 | Somatically Hypermutated Plasmodium-Specific IgM+ Memory B Cells Are Rapid, Plastic, Early Responders upon Malaria Rechallenge. Immunity, 2016, 45, 402-414. | 6.6 | 229 |
| 8 | The Plasmodium falciparum-Specific Human Memory B Cell Compartment Expands Gradually with Repeated Malaria Infections. PLoS Pathogens, 2010, 6, e1000912. | 2.1 | 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. | 2.9 | 218 |
| 10 | Advances and challenges in malaria vaccine development. Journal of Clinical Investigation, 2010, 120, 4168-4178. | 3.9 | 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. | 2.9 | 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. | 3.3 | 188 |
| 13 | Atypical memory B cells in human chronic infectious diseases: An interim report. Cellular Immunology, 2017, 321, 18-25. | 1.4 | 157 |
| 14 | Exposure-Dependent Control of Malaria-Induced Inflammation in Children. PLoS Pathogens, 2014, 10, e1004079. | 2.1 | 153 |
| 15 | Malaria-induced interferon- γ drives the expansion of Tbethi atypical memory B cells. PLoS Pathogens, 2017, 13, e1006576. | 2.1 | 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. | 0.4 | 122 |
| 17 | Broadly neutralizing antibodies target the coronavirus fusion peptide. Science, 2022, 377, 728-735. | 6.0 | 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. | 1.9 | 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. | 15.2 | 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. | 1.9 | 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. | 5.1 | 94 |
| 22 | NK cells inhibit <i>Plasmodium falciparum</i> growth in red blood cells via antibody-dependent cellular cytotoxicity. <i>ELife</i> , 2018, 7, . | 2.8 | 92 |
| 23 | Public antibodies to malaria antigens generated by two LAIR1 insertion modalities. <i>Nature</i> , 2017, 548, 597-601. | 13.7 | 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. | 15.2 | 91 |
| 25 | Stool microbiota composition is associated with the prospective risk of <i>Plasmodium falciparum</i> infection. <i>BMC Genomics</i> , 2015, 16, 631. | 1.2 | 90 |
| 26 | Transcriptomic evidence for modulation of host inflammatory responses during febrile <i>Plasmodium falciparum</i> malaria. <i>Scientific Reports</i> , 2016, 6, 31291. | 1.6 | 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. | 4.2 | 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. | 5.8 | 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. | 1.1 | 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. | 0.4 | 73 |
| 31 | In Vitro Growth-Inhibitory Activity and Malaria Risk in a Cohort Study in Mali. <i>Infection and Immunity</i> , 2010, 78, 737-745. | 1.0 | 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. | 6.6 | 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. | 2.9 | 65 |
| 34 | Assessment of Mercury Exposure and Malaria in a Brazilian Amazon Riverine Community. <i>Environmental Research</i> , 2002, 90, 69-75. | 3.7 | 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. | 0.4 | 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. | 1.0 | 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. | 3.3 | 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. | 3.3 | 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. | 1.7 | 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. | 0.8 | 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. | 1.0 | 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, . | 4.2 | 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. | 1.9 | 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. | 2.5 | 40 |
| 45 | <i>Plasmodium falciparum</i> malaria drives epigenetic reprogramming of human monocytes toward a regulatory phenotype. PLoS Pathogens, 2021, 17, e1009430. | 2.1 | 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. | 1.3 | 37 |
| 47 | Emerging concepts in T follicular helper cell responses to malaria. International Journal for Parasitology, 2017, 47, 105-110. | 1.3 | 36 |
| 48 | Systems immunology of human malaria. Trends in Parasitology, 2012, 28, 248-257. | 1.5 | 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. | 0.9 | 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. | 0.6 | 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. | 1.0 | 24 |
| 52 | Whole-blood transcriptomic signatures induced during immunization by chloroquine prophylaxis and <i>Plasmodium falciparum</i> sporozoites. Scientific Reports, 2019, 9, 8386. | 1.6 | 24 |
| 53 | Multimeric antibodies from antigen-specific human IgM+ memory B cells restrict <i>Plasmodium</i> parasites. Journal of Experimental Medicine, 2021, 218, . | 4.2 | 23 |
| 54 | Mining, visualizing and comparing multidimensional biomolecular data using the Genomics Data Miner (GMine) Web-Server. Scientific Reports, 2016, 6, 38178. | 1.6 | 22 |

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|----|---|------|-----------|
| 55 | Malaria Vaccines: Moving Forward After Encouraging First Steps. <i>Current Tropical Medicine Reports</i> , 2015, 2, 1-3. | 1.6 | 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. | 1.6 | 21 |
| 57 | Functional human IgA targets a conserved site on malaria sporozoites. <i>Science Translational Medicine</i> , 2021, 13, . | 5.8 | 21 |
| 58 | Longitudinal analysis of naturally acquired PfEMP1 CIDR domain variant antibodies identifies associations with malaria protection. <i>JCI Insight</i> , 2020, 5, . | 2.3 | 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. | 5.6 | 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. | 1.1 | 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. | 2.2 | 18 |
| 62 | Decoding the complexities of human malaria through systems immunology. <i>Immunological Reviews</i> , 2020, 293, 144-162. | 2.8 | 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. | 1.1 | 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. | 2.5 | 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. | 5.8 | 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. | 0.4 | 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, . | 1.0 | 15 |
| 68 | Does Atelectasis Cause Fever After Surgery? Putting a Damper on Dogma. <i>JAMA Surgery</i> , 2019, 154, 375. | 2.2 | 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. | 0.6 | 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. | 0.6 | 10 |
| 71 | A Streamlined Approach to Antibody Novel Germline Allele Prediction and Validation. <i>Frontiers in Immunology</i> , 2017, 8, 1072. | 2.2 | 9 |
| 72 | Structural basis of malaria RIFIN binding by LILRB1-containing antibodies. <i>Nature</i> , 2021, 592, 639-643. | 13.7 | 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. | 6.6 | 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. | 1.7 | 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. | 2.0 | 7 |
| 76 | Dendritic cell responses to <i>Plasmodium falciparum</i> in a malaria-endemic setting. <i>Malaria Journal</i> , 2021, 20, 9. | 0.8 | 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. | 2.2 | 4 |
| 78 | Memory CD8 ⁺ 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. | 1.7 | 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. | 3.9 | 1 |