Karen P Day

List of Publications by Year
in descending order

118 papers	7,291 citations	61984 43 h-index	60623 81 g-index
127 all docs	127 docs citations	127 times ranked	4935 citing authors

#	Article	IF	Citations
1	An accurate method for identifying recent recombinants from unaligned sequences. Bioinformatics, 2022, 38, 1823-1829.	4.1	3
2	Age-specific patterns of DBLÎ± var diversity can explain why residents of high malaria transmission areas remain susceptible to Plasmodium falciparum blood stage infection throughout life. International Journal for Parasitology, 2022, 52, 721-731.	3.1	15
3	Indoor residual spraying with a non-pyrethroid insecticide reduces the reservoir of Plasmodium falciparum in a high-transmission area in northern Ghana. PLOS Global Public Health, 2022, 2, e0000285.	1.6	11
4	Evolutionary analyses of the major variant surface antigen-encoding genes reveal population structure of Plasmodium falciparum within and between continents. PLoS Genetics, 2021, 17, e1009269.	3.5	20
5	Frequency-Dependent Competition Between Strains Imparts Persistence to Perturbations in a Model of Plasmodium falciparum Malaria Transmission. Frontiers in Ecology and Evolution, 2021, 9, .	2.2	13
6	The impact of indoor residual spraying on <i>Plasmodium falciparum</i> microsatellite variation in an area of high seasonal malaria transmission in Ghana, West Africa. Molecular Ecology, 2021, 30, 3974-3992.	3.9	6
7	Histone modifications associated with gene expression and genome accessibility are dynamically enriched at Plasmodium falciparum regulatory sequences. Epigenetics and Chromatin, 2020, 13, 50.	3.9	28
8	Evolution of Antimalarial Drug Resistance Markers in the Reservoir of <i>Plasmodium falciparum</i> Infections in the Upper East Region of Ghana. Journal of Infectious Diseases, 2020, 222, 1692-1701.	4.0	8
9	Competition for hosts modulates vast antigenic diversity to generate persistent strain structure in Plasmodium falciparum. PLoS Biology, 2019, 17, e3000336.	5.6	40
10	A high parasite density environment induces transcriptional changes and cell death in <i>Plasmodium falciparum</i> blood stages. FEBS Journal, 2018, 285, 848-870.	4.7	21
11	Signatures of competition and strain structure within the major bloodâ€stage antigen of <i>Plasmodium falciparum</i> in a local community in Ghana. Ecology and Evolution, 2018, 8, 3574-3588.	1.9	10
12	Identifying functional groups among the diverse, recombining antigenic var genes of the malaria parasite Plasmodium falciparum from a local community in Ghana. PLoS Computational Biology, 2018, 14, e1006174.	3.2	3
13	Networks of genetic similarity reveal non-neutral processes shape strain structure in Plasmodium falciparum. Nature Communications, 2018, 9, 1817.	12.8	39
14	The Plasmodium falciparum transcriptome in severe malaria reveals altered expression of genes involved in important processes including surface antigenâ€“encoding var genes. PLoS Biology, 2018, 16, e2004328.	5.6	67
15	Evidence of strain structure in <i>Plasmodium falciparum var</i> gene repertoires in children from Gabon, West Africa. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4103-E4111.	7.1	53
16	Population genomics of virulence genes of Plasmodium falciparum in clinical isolates from Uganda. Scientific Reports, 2017, 7, 11810.	3.3	31
17	Evolutionary structure of <i>Plasmodium falciparum</i> major variant surface antigen genes in South America: Implications for epidemic transmission and surveillance. Ecology and Evolution, 2017, 7, 9376-9390.	1.9	16
18	Activation and clustering of a <i>Plasmodium falciparum var</i> gene are affected by subtelomeric sequences. FEBS Journal, 2017, 284, 237-257.	4.7	9

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19	Seasonal Variation in the Epidemiology of Asymptomatic Plasmodium falciparum Infections across Two Catchment Areas in Bongo District, Ghana. American Journal of Tropical Medicine and Hygiene, 2017, 97, 199-212.	1.4	38
20	Lack of Geospatial Population Structure Yet Significant Linkage Disequilibrium in the Reservoir of Plasmodium falciparum in Bongo District, Ghana. American Journal of Tropical Medicine and Hygiene, 2017, 97, 1180-1189.	1.4	12
21	Using expected sequence features to improve basecalling accuracy of amplicon pyrosequencing data. BMC Bioinformatics, 2016, 17, 176.	2.6	13
22	Hypervariable antigen genes in malaria have ancient roots. BMC Evolutionary Biology, 2013, 13, 110.	3.2	47
23	Homology blocks of Plasmodium falciparum var genes and clinically distinct forms of severe malaria in a local population. BMC Microbiology, 2013, 13, 244.	3.3	22
24	Epistatic Interactions between Apolipoprotein E and Hemoglobin S Genes in Regulation of Malaria Parasitemia. PLoS ONE, 2013, 8, e76924.	2.5	15
25	Individual Variation in Levels of Haptoglobin-Related Protein in Children from Gabon. PLoS ONE, 2012, 7, e49816.	2.5	7
26	Population structuring of multi-copy, antigen-encoding genes in Plasmodium falciparum. ELife, 2012, 1, e00093.	6.0	43
27	A Molecular Epidemiological Study of var Gene Diversity to Characterize the Reservoir of Plasmodium falciparum in Humans in Africa. PLoS ONE, 2011, 6, e16629.	2.5	73
28	Quantifying Malaria Dynamics Within the Host. Science, 2011, 333, 943-944.	12.6	1
29	The Stability and Complexity of Antibody Responses to the Major Surface Antigen of Plasmodium falciparum Are Associated with Age in a Malaria Endemic Area. Molecular and Cellular Proteomics, 2011, 10, M111.008326.	3.8	78
30	Maternal Anemia in Benin: Prevalence, Risk Factors, and Association with Low Birth Weight. American Journal of Tropical Medicine and Hygiene, 2011, 85, 414-420.	1.4	48
31	Uric Acid Is a Mediator of the Plasmodium falciparum-Induced Inflammatory Response. PLoS ONE, 2009, 4, e5194.	2.5	43
32	The acute phase response in children with mild and severe malaria in Papua New Guinea. Transactions of the Royal Society of Tropical Medicine and Hygiene, 2009, 103, 679-686.	1.8	25
33	Seasonal variation in <i>Plasmodium</i> prevalence in a population of blue tits <i>Cyanistes caeruleus</i>. Journal of Animal Ecology, 2008, 77, 540-548.	2.8	147
34	Host erythrocyte polymorphisms and exposure to Plasmodium falciparum in Papua New Guinea. Malaria Journal, 2008, 7, 1.	2.3	161
35	Plasmodium-Induced Inflammation by Uric Acid. PLoS Pathogens, 2008, 4, e1000013.	4.7	40
36	Increased Microerythrocyte Count in Homozygous Î±+-Thalassaemia Contributes to Protection against Severe Malarial Anaemia. PLoS Medicine, 2008, 5, e56.	8.4	55

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37	Population Genomics of the Immune Evasion (var) Genes of Plasmodium falciparum. PLoS Pathogens, 2007, 3, e34.	4.7	150
38	Genomic heterogeneity in the density of noncoding single-nucleotide and microsatellite polymorphisms in Plasmodium falciparum. Gene, 2007, 387, 1-6.	2.2	8
39	Susceptibility of Anopheles gambiae and Anopheles stephensi to tropical isolates of Plasmodium falciparum. Malaria Journal, 2007, 6, 139.	2.3	25
40	Withinâ€population variation in prevalence and lineage distribution of avian malaria in blue tits, <i>Cyanistes caeruleus</i>. Molecular Ecology, 2007, 16, 3263-3273.	3.9	194
41	LOW PREVALENCE OF AN ACUTE PHASE RESPONSE IN ASYMPTOMATIC CHILDREN FROM A MALARIA-ENDEMIC AREA OF PAPUA NEW GUINEA. American Journal of Tropical Medicine and Hygiene, 2007, 76, 280-284.	1.4	35
42	NO EVIDENCE FOR AVIAN MALARIA INFECTION DURING THE NESTLING PHASE IN A PASSERINE BIRD. Journal of Parasitology, 2006, 92, 1302-1304.	0.7	25
43	Variable SNP density in aspartyl-protease genes of the malaria parasite Plasmodium falciparum. Gene, 2006, 376, 163-173.	2.2	4
44	ASSOCIATION OF HAPTOGLOBIN LEVELS WITH AGE, PARASITE DENSITY, AND HAPTOGLOBIN GENOTYPE IN A MALARIA-ENDEMIC AREA OF GABON. American Journal of Tropical Medicine and Hygiene, 2006, 74, 26-30.	1.4	30
45	HAPTOGLOBIN LEVELS ARE ASSOCIATED WITH HAPTOGLOBIN GENOTYPE AND Î±+-THALASSEMIA IN A MALARIA-ENDEMIC AREA. American Journal of Tropical Medicine and Hygiene, 2006, 74, 965-971.	1.4	33
46	Association of haptoglobin levels with age, parasite density, and haptoglobin genotype in a malaria-endemic area of Gabon. American Journal of Tropical Medicine and Hygiene, 2006, 74, 26-30.	1.4	19
47	Haptoglobin levels are associated with haptoglobin genotype and alpha+ -Thalassemia in a malaria-endemic area. American Journal of Tropical Medicine and Hygiene, 2006, 74, 965-71.	1.4	22
48	Human serum haptoglobin is toxic to Plasmodium falciparum in vitro. Molecular and Biochemical Parasitology, 2004, 133, 93-98.	1.1	19
49	Response to Snounou: Cross-species regulation of Plasmodium parasitaemia. Trends in Parasitology, 2004, 20, 266-267.	3.3	3
50	Association of house spraying with suppressed levels of drug resistance in Zimbabwe. Malaria Journal, 2004, 3, 35.	2.3	28
51	Light and electron microscopical observations of the effects of high-density lipoprotein on growth of Plasmodium falciparum in vitro. Parasitology, 2004, 128, 577-584.	1.5	11
52	Human migration, mosquitoes and the evolution of Plasmodium falciparum. Trends in Parasitology, 2003, 19, 144-149.	3.3	40
53	Cross-species regulation of Plasmodium parasitemia in semi-immune children from Papua New Guinea. Trends in Parasitology, 2003, 19, 271-277.	3.3	56
54	DNA sequence artifacts and the estimation of time to the most recent common ancestor (TMRCA) of Plasmodium falciparum. Molecular and Biochemical Parasitology, 2003, 130, 143-147.	1.1	8

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55	Malaria in antiquity: a genetics perspective. World Archaeology, 2003, 35, 180-192.	1.1	11
56	REGULATION OF THE RATE OF ASEXUAL GROWTH AND COMMITMENT TO SEXUAL DEVELOPMENT BY DIFFUSIBLE FACTORS FROM IN VITRO CULTURES OF PLASMODIUM FALCIPARUM. American Journal of Tropical Medicine and Hygiene, 2003, 68, 403-409.	1.4	52
57	Cross-species regulation of malaria parasitaemia in the human host. Current Opinion in Microbiology, 2002, 5, 431-437.	5.1	55
58	The paradoxical population genetics of Plasmodium falciparum. Trends in Parasitology, 2002, 18, 266-272.	3.3	45
59	Epitopes for modified band 3 monoclonal antibody 1C4 are not exposed on the malaria-infected red blood cell surface. Molecular and Biochemical Parasitology, 2001, 117, 235-239.	1.1	1
60	Recent Origin of <i>Plasmodium falciparum</i> from a Single Progenitor. Science, 2001, 293, 482-484.	12.6	197
61	Do malaria parasites mate non-randomly in the mosquito midgut?. Genetical Research, 2000, 75, 285-296.	0.9	30
62	Complex mutations in a high proportion of microsatellite loci from the protozoan parasitePlasmodium falciparum. Molecular Ecology, 2000, 9, 1599-1608.	3.9	71
63	Expression of Plasmodium falciparum trimeric G proteins and their involvement in switching to sexual development. Molecular and Biochemical Parasitology, 2000, 108, 67-78.	1.1	29
64	Erratum to â€œExpression of Plasmodium falciparum trimeric G proteins and their involvement in switching to sexual developmentâ€. Molecular and Biochemical Parasitology, 2000, 110, 435.	1.1	1
65	Geographical structure and sequence evolution as inferred from the Plasmodium falciparum S-antigen locus. Molecular and Biochemical Parasitology, 2000, 106, 321-326.	1.1	13
66	Plasmodium falciparum: Histidine-Rich Protein II Is Expressed during Gametocyte Development. Experimental Parasitology, 2000, 96, 139-146.	1.2	41
67	Microsatellite Markers Reveal a Spectrum of Population Structures in the Malaria Parasite Plasmodium falciparum. Molecular Biology and Evolution, 2000, 17, 1467-1482.	8.9	693
68	Cross-Species Interactions Between Malaria Parasites in Humans. Science, 2000, 287, 845-848.	12.6	215
69	Virulence and transmission success of the malarial parasite Plasmodium falciparum. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 4563-4568.	7.1	71
70	Plasmodium falciparum:Analysis of the Antibody Specificity to the Surface of the Trophozoite-Infected Erythrocyte. Experimental Parasitology, 1999, 91, 161-169.	1.2	42
71	Aggregation and distribution of strains in microparasites. Philosophical Transactions of the Royal Society B: Biological Sciences, 1999, 354, 799-807.	4.0	45
72	Malaria Transmission and Naturally Acquired Immunity to PfEMP-1. Infection and Immunity, 1999, 67, 6369-6374.	2.2	50

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73	Application of genetic markers to the identification of recrudescent Plasmodium falciparum infections on the northwestern border of Thailand.. American Journal of Tropical Medicine and Hygiene, 1999, 60, 14-21.	1.4	139
74	Polymorphism at the merozoite surface protein-3alpha locus of Plasmodium vivax: global and local diversity.. American Journal of Tropical Medicine and Hygiene, 1999, 61, 518-525.	1.4	129
75	CD36-dependent adhesion and knob expression of the transmission stages of Plasmodium falciparum is stage-specific. Molecular and Biochemical Parasitology, 1998, 93, 167-177.	1.1	65
76	17 Malaria: A Global Threat. Biomedical Research Reports, 1998, , 463-497.	0.3	1
77	Transmission intensity and Plasmodium falciparum diversity on the northwestern border of Thailand.. American Journal of Tropical Medicine and Hygiene, 1998, 58, 195-203.	1.4	85
78	Population Biology, Evolution, and Immunology of Vaccination and Vaccination Programs. American Journal of the Medical Sciences, 1998, 315, 76-86.	1.1	3
79	Plasmodium falciparum: Parasites Defective in Early Stages of Gametocytogenesis. Experimental Parasitology, 1995, 81, 227-235.	1.2	67
80	Mating patterns in malaria parasite populations of Papua New Guinea. Science, 1995, 269, 1709-1711.	12.6	309
81	Antigenic diversity and the transmission dynamics of Plasmodium falciparum. Science, 1994, 263, 961-963.	12.6	206
82	Antifilarial IgG4 Antibodies In Children From Filaria-Endemic Areas Correlate With Duration Of Infection And Are Dissociated From Antifilarial IgE Antibodies. Journal of Infectious Diseases, 1994, 170, 1339-1343.	4.0	28
83	Mapping the genetic locus implicated in cytoadherence of Plasmodium falciparum to melanoma cells. Molecular and Biochemical Parasitology, 1994, 66, 21-29.	1.1	27
84	Clinical immunity to Plasmodium falciparum. Parasitology Today, 1994, 10, 64.	3.0	6
85	A theoretical framework for the immunoepidemiology of <i>Plasmodium falciparum</i> malaria. Parasite Immunology, 1994, 16, 361-370.	1.5	71
86	Parasite virulence and disease patterns in Plasmodium falciparum malaria.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 3715-3719.	7.1	138
87	The S-antigen of Plasmodium falciparum: repertoire and origin of diversity. Molecular and Biochemical Parasitology, 1993, 61, 189-196.	1.1	20
88	Genes necessary for expression of a virulence determinant and for transmission of Plasmodium falciparum are located on a 0.3-megabase region of chromosome 9.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 8292-8296.	7.1	155
89	Comparison of Single-Dose Diethylcarbamazine and Ivermectin for Treatment of Bancroftian Filariasis in Papua New Guinea. American Journal of Tropical Medicine and Hygiene, 1993, 49, 804-811.	1.4	66
90	Antigenicity of a Protective Recombinant Filarial Protein in Human Bancroftian Filariasis. Journal of Infectious Diseases, 1992, 166, 1453-1457.	4.0	13

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91	Age-specific acquisition of immunity to infective larvae in a bancroftian filariasis endemic area of Papua New Guinea. Parasite Immunology, 1991, 13, 277-290.	1.5	96
92	Structural diversity in the Plasmodium falciparum merozoite surface antigen 2.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 1751-1755.	7.1	168
93	Naturally acquired immunity to Plasmodium faldparum. Trends in Immunology, 1991, 12, A68-A71.	7.5	126
94	Plasmodium falciparum ring-infected erythrocyte surface antigen is released from merozoite dense granules after erythrocyte invasion. Infection and Immunity, 1991, 59, 1183-1187.	2.2	110
95	Age Specific Patterns of Change in the Dynamics of Wuchereria bancrofti Infection in Papua New Guinea. American Journal of Tropical Medicine and Hygiene, 1991, 44, 518-527.	1.4	55
96	Serological Evaluation of the Macrofilaricidal Effects of Diethylcarbamazine Treatment in Bancroftian filariasis. American Journal of Tropical Medicine and Hygiene, 1991, 44, 528-535.	1.4	16
97	Several alleles of the multidrug-resistance gene are closely linked to chloroquine resistance in Plasmodium falciparum. Nature, 1990, 345, 255-258.	27.8	563
98	Chromosome 9 from independent clones and isolates of Plasmodium falciparum undergoes subtelomeric deletions with similar breakpoints in vitro. Molecular and Biochemical Parasitology, 1990, 40, 137-145.	1.1	52
99	The relationship between splenomegaly and antibody to the circumsporozoite protein of Plasmodium falciparum in two groups of women with high and low enlarged spleen rates in Madang, Papua New Guinea. Transactions of the Royal Society of Tropical Medicine and Hygiene, 1990, 84, 40-45.	1.8	2
100	Knob-independent cytoadherence of Plasmodium falciparum to the leukocyte differentiation antigen CD36.. Journal of Experimental Medicine, 1990, 171, 1883-1892.	8.5	57
101	Field applications of agglutination and cytoadherence assays with Plasmodium falciparum from Papua New Guinea. Transactions of the Royal Society of Tropical Medicine and Hygiene, 1989, 83, 464-469.	1.8	31
102	Two populations of women with high and low spleen rates living in the same area of Madang, Papua New Guinea, demonstrate different immune responses to malaria. Transactions of the Royal Society of Tropical Medicine and Hygiene, 1989, 83, 577-583.	1.8	11
103	The Effect of Iron Therapy on Malarial Infection in Papua New Guinean Schoolchildren. American Journal of Tropical Medicine and Hygiene, 1989, 40, 12-18.	1.4	69
104	Small Area Variation in Prevalence of an S-Antigen Serotype of Plasmodium falciparum in Villages of Madang, Papua New Guinea. American Journal of Tropical Medicine and Hygiene, 1989, 40, 344-350.	1.4	43
105	Diversity of Antigens Expressed on the Surface of Erythrocytes Infected with Mature Plasmodium Falciparum Parasites in Papua New Guinea. American Journal of Tropical Medicine and Hygiene, 1989, 41, 259-265.	1.4	98
106	Identification of Phosphorylcholine Epitope-Containing Antigens in Brugia Malayi and Relation of Serum Epitope Levels to Infection Status of Jirds with Brugian Filariasis. American Journal of Tropical Medicine and Hygiene, 1988, 38, 133-141.	1.4	30
107	Epidemiology of Human T Cell Leukemia Virus Type I Infection in East Sepik Province, Papua New Guinea. Journal of Infectious Diseases, 1987, 155, 1100-1107.	4.0	66
108	Chromosome size polymorphisms in plasmodium falciparum can involve deletions and are frequent in natural parasite populations. Cell, 1986, 44, 87-95.	28.9	178

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109	Detection of serum antibodies and circulating antigens in a chimpanzee experimentally infected with Onchocerca volvulus. Transactions of the Royal Society of Tropical Medicine and Hygiene, 1986, 80, 587-591.	1.8	18
110	Differential recognition of a protective filarial antigen by antibodies from humans with bancroftian filariasis.. Journal of Clinical Investigation, 1986, 77, 1985-1992.	8.2	27
111	Differences in the surface radioiodinated proteins of skin and uterine microfilariae of Onchocerca gibsoni. Molecular and Biochemical Parasitology, 1984, 10, 217-229.	1.1	32
112	Onchocerca gibsoni: Increase of circulating egg antigen with chemotherapy in bovines. Experimental Parasitology, 1984, 58, 41-55.	1.2	32
113	Parasitologic and Clinical Features of Bancroftian Filariasis in a Community in East Sepik Province, Papua New Guinea *. American Journal of Tropical Medicine and Hygiene, 1984, 33, 1119-1123.	1.4	27
114	Detection of Circulating Antigen in Bancroftian Filariasis by using a Monoclonal Antibody. American Journal of Tropical Medicine and Hygiene, 1984, 33, 1130-1140.	1.4	41
115	Purification of Onchocerca gibsoni microfilariae. International Journal for Parasitology, 1982, 12, 53-57.	3.1	8
116	Analysis of Infection Characteristics and Antiparasite Immune Responses in Resistant Compared with Susceptible Hosts. Immunological Reviews, 1982, 61, 137-188.	6.0	102
117	ACCELERATED REJECTION OF NEMATOSPIROIDES DUBIUS INTESTINAL WORMS IN MICE SENSITIZED WITH ADULT WORMS. The Australian Journal of Experimental Biology and Medical Science, 1980, 58, 231-240.	0.7	17
118	Studies on chronic versus transient intestinal nematode infections in mice I. A comparison of responses to excretory/secretory (ES) products of Nippostrongylus brasiliensis and Nematospiroides dubius worms. Parasite Immunology, 1979, 1, 217-239.	1.5	45