

Benoit Gamain

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,832
citations

201674

27
h-index

182427

51
g-index

66
all docs

66
docs citations

66
times ranked

1988
citing authors

#	ARTICLE	IF	CITATIONS
1	Classification of adhesive domains in the Plasmodium falciparum Erythrocyte Membrane Protein 1 family. <i>Molecular and Biochemical Parasitology</i> , 2000, 110, 293-310.	1.1	238
2	<i>Plasmodium falciparum</i> domain mediating adhesion to chondroitin sulfate A: A receptor for human placental infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 12743-12748.	7.1	226
3	A single member of the Plasmodium falciparum var multigene family determines cytoadhesion to the placental receptor chondroitin sulphate A. <i>EMBO Reports</i> , 2005, 6, 775-781.	4.5	187
4	The Putative Glutathione Peroxidase Gene of Plasmodium falciparum Codes for a Thioredoxin Peroxidase. <i>Journal of Biological Chemistry</i> , 2001, 276, 7397-7403.	3.4	142
5	Structure-Guided Identification of a Family of Dual Receptor-Binding PfEMP1 that Is Associated with Cerebral Malaria. <i>Cell Host and Microbe</i> , 2017, 21, 403-414.	11.0	140
6	Full-length extracellular region of the var2CSA variant of PfEMP1 is required for specific, high-affinity binding to CSA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4884-4889.	7.1	137
7	Identification of Multiple Chondroitin Sulfate A (CSA) Binding Domains in the var2CSA Gene Transcribed in CSA Binding Parasites. <i>Journal of Infectious Diseases</i> , 2005, 191, 1010-1013.	4.0	135
8	Structural polymorphism and diversifying selection on the pregnancy malaria vaccine candidate VAR2CSA. <i>Molecular and Biochemical Parasitology</i> , 2007, 155, 103-112.	1.1	111
9	Decoding the language of var genes and Plasmodium falciparum sequestration. <i>Trends in Parasitology</i> , 2001, 17, 538-545.	3.3	92
10	PRIMVAC vaccine adjuvanted with Alhydrogel or GLA-SE to prevent placental malaria: a first-in-human, randomised, double-blind, placebo-controlled study. <i>Lancet Infectious Diseases</i> , The, 2020, 20, 585-597.	9.1	84
11	Immunization of Aotus monkeys with a functional domain of the Plasmodium falciparum variant antigen induces protection against a lethal parasite line. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3860-3865.	7.1	72
12	Disruption of Var2csa Gene Impairs Placental Malaria Associated Adhesion Phenotype. <i>PLoS ONE</i> , 2007, 2, e910.	2.5	70
13	Var2CSA Minimal CSA Binding Region Is Located within the N-Terminal Region. <i>PLoS ONE</i> , 2011, 6, e20270.	2.5	67
14	Parasites Causing Cerebral Falciparum Malaria Bind Multiple Endothelial Receptors and Express EPCR and ICAM-1-Binding PfEMP1. <i>Journal of Infectious Diseases</i> , 2017, 215, 1918-1925.	4.0	65
15	Differential Patterns of IgG Subclass Responses to Plasmodium falciparum Antigens in Relation to Malaria Protection and RTS,S Vaccination. <i>Frontiers in Immunology</i> , 2019, 10, 439.	4.8	55
16	Molecular basis for the dichotomy in Plasmodium falciparum adhesion to CD36 and chondroitin sulfate A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 10020-10024.	7.1	52
17	Characterization of anti-var2CSA-PfEMP1 cytoadhesion inhibitory mouse monoclonal antibodies. <i>Microbes and Infection</i> , 2006, 8, 2863-2871.	1.9	52
18	The surface variant antigens of Plasmodium falciparum contain cross-reactive epitopes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 2664-2669.	7.1	50

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19	An exported kinase family mediates species-specific erythrocyte remodelling and virulence in human malaria. <i>Nature Microbiology</i> , 2020, 5, 848-863.	13.3	44
20	Antibodies to a Full-Length VAR2CSA Immunogen Are Broadly Strain-Transcendent but Do Not Cross-Inhibit Different Placental-Type Parasite Isolates. <i>PLoS ONE</i> , 2011, 6, e16622.	2.5	40
21	Molecular characterization of the glutathione peroxidase gene of the human malaria parasite <i>Plasmodium falciparum</i> . <i>Molecular and Biochemical Parasitology</i> , 1996, 78, 237-248.	1.1	39
22	Var2CSA DBL6-epsilon domain expressed in HEK293 induces limited cross-reactive and blocking antibodies to CSA binding parasites. <i>Malaria Journal</i> , 2008, 7, 170.	2.3	39
23	Identification of a 67-amino-acid region of the <i>Plasmodium falciparum</i> variant surface antigen that binds chondroitin sulphate A and elicits antibodies reactive with the surface of placental isolates. <i>Molecular Microbiology</i> , 2004, 53, 445-455.	2.5	38
24	Modifications in the CD36 binding domain of the <i>Plasmodium falciparum</i> variant antigen are responsible for the inability of chondroitin sulfate A adherent parasites to bind CD36. <i>Blood</i> , 2001, 97, 3268-3274.	1.4	37
25	Pregnancy-associated malaria: Parasite binding, natural immunity and vaccine development. <i>International Journal for Parasitology</i> , 2007, 37, 273-283.	3.1	37
26	The human placental derived BeWo cell line: A useful model for selecting <i>Plasmodium falciparum</i> CSA-binding parasites. <i>Experimental Parasitology</i> , 2006, 112, 121-125.	1.2	34
27	Placental Cytokine and Chemokine Profiles Reflect Pregnancy Outcomes in Women Exposed to <i>Plasmodium falciparum</i> Infection. <i>Infection and Immunity</i> , 2014, 82, 3783-3789.	2.2	34
28	RTS,S/AS01E immunization increases antibody responses to vaccine-unrelated <i>Plasmodium falciparum</i> antigens associated with protection against clinical malaria in African children: a case-control study. <i>BMC Medicine</i> , 2019, 17, 157.	5.5	30
29	Down-selection of the VAR2CSA DBL1-2 expressed in <i>E. coli</i> as a lead antigen for placental malaria vaccine development. <i>Npj Vaccines</i> , 2018, 3, 28.	6.0	29
30	Clinical development of placental malaria vaccines and immunoassays harmonization: a workshop report. <i>Malaria Journal</i> , 2016, 15, 476.	2.3	28
31	Increase in glutathione peroxidase activity in malaria parasite after selenium supplementation. <i>Free Radical Biology and Medicine</i> , 1996, 21, 559-565.	2.9	25
32	Structure of the DBL3X-DBL4 μ region of the VAR2CSA placental malaria vaccine candidate: insight into DBL domain interactions. <i>Scientific Reports</i> , 2015, 5, 14868.	3.3	25
33	Parity-Dependent Recognition of DBL1X-3X Suggests an Important Role of the VAR2CSA High-Affinity CSA-Binding Region in the Development of the Humoral Response against Placental Malaria. <i>Infection and Immunity</i> , 2015, 83, 2466-2474.	2.2	24
34	Host factors that modify <i>Plasmodium falciparum</i> adhesion to endothelial receptors. <i>Scientific Reports</i> , 2017, 7, 13872.	3.3	24
35	The sickle cell trait affects contact dynamics and endothelial cell activation in <i>Plasmodium falciparum</i> -infected erythrocytes. <i>Communications Biology</i> , 2018, 1, 211.	4.4	23
36	Preclinical immunogenicity and safety of the cGMP-grade placental malaria vaccine PRIMVAC. <i>EBioMedicine</i> , 2019, 42, 145-156.	6.1	23

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37	DNA Immunization with the Cysteine-Rich Interdomain Region 1 of the <i>Plasmodium falciparum</i> Variant Antigen Elicits Limited Cross-Reactive Antibody Responses. <i>Infection and Immunity</i> , 2003, 71, 4536-4543.	2.2	21
38	Induction of crossreactive antibodies against the <i>Plasmodium falciparum</i> variant protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13007-13012.	7.1	20
39	Structural and Immunological Correlations between the Variable Blocks of the VAR2CSA Domain DBL6 μ from Two <i>Plasmodium falciparum</i> Parasite Lines. <i>Journal of Molecular Biology</i> , 2013, 425, 1697-1711.	4.2	19
40	Optimization of incubation conditions of <i>Plasmodium falciparum</i> antibody multiplex assays to measure IgG, IgG1 α 4, IgM and IgE using standard and customized reference pools for sero-epidemiological and vaccine studies. <i>Malaria Journal</i> , 2018, 17, 219.	2.3	19
41	Progress and Insights Toward an Effective Placental Malaria Vaccine. <i>Frontiers in Immunology</i> , 2021, 12, 634508.	4.8	18
42	TSPO ligands stimulate ZnPPiX transport and ROS accumulation leading to the inhibition of <i>P. falciparum</i> growth in human blood. <i>Scientific Reports</i> , 2016, 6, 33516.	3.3	17
43	<i>Plasmodium</i> -infected erythrocytes induce secretion of IGFBP7 to form type II rosettes and escape phagocytosis. <i>ELife</i> , 2020, 9, .	6.0	16
44	Definition of the minimal domain of CIDR1 \pm of <i>Plasmodium falciparum</i> PfEMP1 for binding CD36. <i>Molecular and Biochemical Parasitology</i> , 2002, 120, 321-323.	1.1	15
45	Llama immunization with full-length VAR2CSA generates cross-reactive and inhibitory single-domain antibodies against the DBL1X domain. <i>Scientific Reports</i> , 2014, 4, 7373.	3.3	15
46	Phosphorylation of the VAR2CSA extracellular region is associated with enhanced adhesive properties to the placental receptor CSA. <i>PLoS Biology</i> , 2019, 17, e3000308.	5.6	13
47	Expressing Full-Length Functional PfEMP1 Proteins in the HEK293 Expression System. <i>Methods in Molecular Biology</i> , 2012, 923, 307-319.	0.9	12
48	High-Throughput Screening Platform Identifies Small Molecules That Prevent Sequestration of <i>Plasmodium falciparum</i> -Infected Erythrocytes. <i>Journal of Infectious Diseases</i> , 2015, 211, 1134-1143.	4.0	12
49	Murine Model for Preclinical Studies of Var2CSA-Mediated Pathology Associated with Malaria in Pregnancy. <i>Infection and Immunity</i> , 2016, 84, 1761-1774.	2.2	10
50	Beninese children with cerebral malaria do not develop humoral immunity against the IT4-VAR19-DC8 PfEMP1 variant linked to EPCR and brain endothelial binding. <i>Malaria Journal</i> , 2015, 14, 493.	2.3	9
51	Heterozygous HbAC but not HbAS is associated with higher newborn birthweight among women with pregnancy-associated malaria. <i>Scientific Reports</i> , 2017, 7, 1414.	3.3	8
52	VAR2CSA-Mediated Host Defense Evasion of <i>Plasmodium falciparum</i> Infected Erythrocytes in Placental Malaria. <i>Frontiers in Immunology</i> , 2020, 11, 624126.	4.8	8
53	How does <i>Plasmodium falciparum</i> stick to CSA? Let's see in the crystal. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 895-897.	8.2	7
54	HIV infection and placental malaria reduce maternal transfer of multiple antimalarial antibodies in Mozambican women. <i>Journal of Infection</i> , 2021, 82, 45-57.	3.3	7

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55	Investigation of host factors possibly enhancing the emergence of the chondroitin sulfate A-binding phenotype in <i>Plasmodium falciparum</i> . <i>Microbes and Infection</i> , 2008, 10, 928-932.	1.9	6
56	Impact of Hemoglobin S Trait on Cell Surface Antibody Recognition of <i>Plasmodium falciparum</i> -Infected Erythrocytes in Pregnancy-Associated Malaria. <i>Open Forum Infectious Diseases</i> , 2019, 6, ofz156.	0.9	5
57	VAR2CSA binding phenotype has ancient origin and arose before <i>Plasmodium falciparum</i> crossed to humans: implications in placental malaria vaccine design. <i>Scientific Reports</i> , 2019, 9, 16978.	3.3	5
58	The course of <i>Plasmodium berghei</i> , <i>P. chabaudi</i> and <i>P. yoelii</i> infections in β^2 -thalassaemic mice. <i>Parasitology</i> , 1996, 112, 269-276.	1.5	4
59	An invariant protein that co-localizes with VAR2CSA on <i>Plasmodium falciparum</i> -infected red cells binds to chondroitin sulfate A. <i>Journal of Infectious Diseases</i> , 2021, , .	4.0	3
60	Production, crystallization and X-ray diffraction analysis of two nanobodies against the Duffy binding-like (DBL) domain DBL6 α -FCR3 of the <i>Plasmodium falciparum</i> VAR2CSA protein. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 270-274.	0.7	2
61	BMFPs, a versatile therapeutic tool for redirecting a preexisting Epstein-Barr virus antibody response toward defined target cells. <i>Science Advances</i> , 2022, 8, eabl4363.	10.3	2