Hernando A Del Portillo Obando

List of Publications by Citations

129 papers	13,212 citations	42 h-index	114 g-index
133 ext. papers	16,877 ext. citations	6.6 avg, IF	5.31 L-index

#	Paper	IF	Citations
129	Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. *Journal of Extracellular Vesicles*, **2018**, 7, 1535750	16.4	3642
128	Biological properties of extracellular vesicles and their physiological functions. *Journal of Extracellular Vesicles*, **2015**, 4, 27066	16.4	2611
127	Applying extracellular vesicles based therapeutics in clinical trials - an ISEV position paper. *Journal of Extracellular Vesicles*, **2015**, 4, 30087	16.4	722
126	Comparative genomics of the neglected human malaria parasite Plasmodium vivax. *Nature*, **2008**, 455, 757-63	50.4	633
125	Key gaps in the knowledge of Plasmodium vivax, a neglected human malaria parasite. *Lancet Infectious Diseases, The*, **2009**, 9, 555-66	25.5	459
124	Evidence-Based Clinical Use of Nanoscale Extracellular Vesicles in Nanomedicine. *ACS Nano*, **2016**, 10, 3886-99	16.7	304
123	EVpedia: a community web portal for extracellular vesicles research. *Bioinformatics*, **2015**, 31, 933-9	7.2	256
122	On the cytoadhesion of Plasmodium vivax-infected erythrocytes. *Journal of Infectious Diseases*, **2010**, 202, 638-47	7	217
121	A superfamily of variant genes encoded in the subtelomeric region of Plasmodium vivax. *Nature*, **2001**, 410, 839-42	50.4	185
120	Concise Review: Developing Best-Practice Models for the Therapeutic Use of Extracellular Vesicles. *Stem Cells Translational Medicine*, **2017**, 6, 1730-1739	6.9	177
119	Primary structure of the merozoite surface antigen 1 of Plasmodium vivax reveals sequences conserved between different Plasmodium species. *Proceedings of the National Academy of Sciences of the United States of America*, **1991**, 88, 4030-4	11.5	161
118	Evidence for different mechanisms of chloroquine resistance in 2 Plasmodium species that cause human malaria. *Journal of Infectious Diseases*, **2001**, 183, 1653-61	7	154
117	Postmortem characterization of patients with clinical diagnosis of Plasmodium vivax malaria: to what extent does this parasite kill?. *Clinical Infectious Diseases*, **2012**, 55, e67-74	11.6	144
116	Extracellular vesicles in parasitic diseases. *Journal of Extracellular Vesicles*, **2014**, 3, 25040	16.4	136
115	Heat shock induction of apoptosis in promastigotes of the unicellular organism Leishmania (Leishmania) amazonensis. *Journal of Cellular Physiology*, **1996**, 167, 305-13	7	133
114	Exosomes from Plasmodium yoelii-infected reticulocytes protect mice from lethal infections. *PLoS ONE*, **2011**, 6, e26588	3.7	129
113	Size-exclusion chromatography as a stand-alone methodology identifies novel markers in mass spectrometry analyses of plasma-derived vesicles from healthy individuals. *Journal of Extracellular Vesicles*, **2015**, 4, 27378	16.4	125

112	The role of the spleen in malaria. *Cellular Microbiology*, **2012**, 14, 343-55	3.9	120
111	Size-exclusion chromatography-based enrichment of extracellular vesicles from urine samples. *Journal of Extracellular Vesicles*, **2015**, 4, 27369	16.4	114
110	Comparison of diagnostic methods for the detection and quantification of the four sympatric Plasmodium species in field samples from Papua New Guinea. *Malaria Journal*, **2010**, 9, 361	3.6	102
109	The methylerythritol phosphate pathway is functionally active in all intraerythrocytic stages of Plasmodium falciparum. *Journal of Biological Chemistry*, **2004**, 279, 51749-59	5.4	94
108	Relapses contribute significantly to the risk of Plasmodium vivax infection and disease in Papua New Guinean children 1-5 years of age. *Journal of Infectious Diseases*, **2012**, 206, 1771-80	7	80
107	Association of Severe Noncerebral Plasmodium falciparum Malaria in Brazil With Expressed PfEMP1 DBL1 Sequences Lacking Cysteine Residues. *Molecular Medicine*, **2002**, 8, 16-23	6.2	75
106	Functional analysis of Plasmodium vivax VIR proteins reveals different subcellular localizations and cytoadherence to the ICAM-1 endothelial receptor. *Cellular Microbiology*, **2012**, 14, 386-400	3.9	70
105	Longevity of naturally acquired antibody responses to the N- and C-terminal regions of Plasmodium vivax merozoite surface protein 1. *American Journal of Tropical Medicine and Hygiene*, **1999**, 60, 357-63	3.2	70
104	A functional microengineered model of the human splenon-on-a-chip. *Lab on A Chip*, **2014**, 14, 1715-24	7.2	66
103	Plasmodium vivax: allele variants of the mdr1 gene do not associate with chloroquine resistance among isolates from Brazil, Papua, and monkey-adapted strains. *Experimental Parasitology*, **2005**, 109, 256-9	2.1	63
102	A reduced risk of infection with Plasmodium vivax and clinical protection against malaria are associated with antibodies against the N terminus but not the C terminus of merozoite surface protein 1. *Infection and Immunity*, **2006**, 74, 2726-33	3.7	56
101	The Role of Extracellular Vesicles in Modulating the Host Immune Response during Parasitic Infections. *Frontiers in Immunology*, **2014**, 5, 433	8.4	52
100	Analysis of single-nucleotide polymorphisms in the crt-o and mdr1 genes of Plasmodium vivax among chloroquine-resistant isolates from the Brazilian Amazon region. *Antimicrobial Agents and Chemotherapy*, **2009**, 53, 3561-4	5.9	51
99	Variant proteins of Plasmodium vivax are not clonally expressed in natural infections. *Molecular Microbiology*, **2005**, 58, 648-58	4.1	51
98	Expression levels of pvcrt-o and pvmdr-1 are associated with chloroquine resistance and severe Plasmodium vivax malaria in patients of the Brazilian Amazon. *PLoS ONE*, **2014**, 9, e105922	3.7	49
97	Naturally-acquired humoral immune responses against the N- and C-termini of the Plasmodium vivax MSP1 protein in endemic regions of Brazil and Papua New Guinea using a multiplex assay. *Malaria Journal*, **2010**, 9, 29	3.6	48
96	Plasmodium vivax and the importance of the subtelomeric multigene vir superfamily. *Trends in Parasitology*, **2009**, 25, 44-51	6.4	48
95	Variant genes and the spleen in Plasmodium vivax malaria. *International Journal for Parasitology*, **2004**, 34, 1547-54	4.3	47

94	Plasmodium vivax gametocytes in the bone marrow of an acute malaria patient and changes in the erythroid miRNA profile. *PLoS Neglected Tropical Diseases*, **2017**, 11, e0005365	4.8	46
93	Increased expression levels of the pvcrt-o and pvmdr1 genes in a patient with severe Plasmodium vivax malaria. *Malaria Journal*, **2009**, 8, 55	3.6	45
92	Key Gaps in the Knowledge of the Porcine Respiratory Reproductive Syndrome Virus (PRRSV). *Frontiers in Veterinary Science*, **2019**, 6, 38	3.1	45
91	Computational methods in noncoding RNA research. *Journal of Mathematical Biology*, **2008**, 56, 15-49	2	44
90	Circumsporozoite gene of a Plasmodium falciparum strain from Thailand. *Molecular and Biochemical Parasitology*, **1987**, 24, 289-94	1.9	44
89	Expression and function of pvcrt-o, a Plasmodium vivax ortholog of pfcrt, in Plasmodium falciparum and Dictyostelium discoideum. *Molecular and Biochemical Parasitology*, **2006**, 150, 219-28	1.9	43
88	Characterization of Plasmodium vivax-associated admissions to reference hospitals in Brazil and India. *BMC Medicine*, **2015**, 13, 57	11.4	42
87	Paucity of Plasmodium vivax mature schizonts in peripheral blood is associated with their increased cytoadhesive potential. *Journal of Infectious Diseases*, **2014**, 209, 1403-7	7	42
86	Malaria parasites lacking eef1a have a normal S/M phase yet grow more slowly due to a longer G1 phase. *Molecular Microbiology*, **2003**, 50, 1539-51	4.1	41
85	Clinical and molecular aspects of severe malaria. *Anais Da Academia Brasileira De Ciencias*, **2005**, 77, 455-75	1.4	41
84	Spleen rupture in a case of untreated Plasmodium vivax infection. *PLoS Neglected Tropical Diseases*, **2012**, 6, e1934	4.8	40
83	The machinery underlying malaria parasite virulence is conserved between rodent and human malaria parasites. *Nature Communications*, **2016**, 7, 11659	17.4	39
82	Malaria parasites contain two identical copies of an elongation factor 1 alpha gene. *Molecular and Biochemical Parasitology*, **1998**, 94, 1-12	1.9	38
81	Strain-specific spleen remodelling in Plasmodium yoelii infections in Balb/c mice facilitates adherence and spleen macrophage-clearance escape. *Cellular Microbiology*, **2011**, 13, 109-22	3.9	37
80	Placental infection with Plasmodium vivax: a histopathological and molecular study. *Journal of Infectious Diseases*, **2012**, 206, 1904-10	7	37
79	Rosetting in Plasmodium vivax: a cytoadhesion phenotype associated with anaemia. *PLoS Neglected Tropical Diseases*, **2013**, 7, e2155	4.8	36
78	Molecular analysis of Plasmodium vivax relapses using the MSP1 molecule as a genetic marker. *Journal of Infectious Diseases*, **1998**, 177, 511-5	7	35
77	Burden and impact of Plasmodium vivax in pregnancy: A multi-centre prospective observational study. *PLoS Neglected Tropical Diseases*, **2017**, 11, e0005606	4.8	34

76	Extense variant gene family repertoire overlap in Western Amazon Plasmodium falciparum isolates. *Molecular and Biochemical Parasitology*, **2006**, 150, 157-65	1.9	30
75	Plasmodium vivax: comparison of immunogenicity among proteins expressed in the cell-free systems of Escherichia coli and wheat germ by suspension array assays. *Malaria Journal*, **2011**, 10, 192	3.6	29
74	Declining malaria transmission in rural Amazon: changing epidemiology and challenges to achieve elimination. *Malaria Journal*, **2016**, 15, 266	3.6	28
73	Pregnancy and malaria exposure are associated with changes in the B cell pool and in plasma eotaxin levels. *Journal of Immunology*, **2014**, 193, 2971-83	5.3	28
72	A new computational approach redefines the subtelomeric vir superfamily of Plasmodium vivax. *BMC Genomics*, **2013**, 14, 8	4.5	27
71	High levels of IgG3 anti ICB2-5 in Plasmodium vivax-infected individuals who did not develop symptoms. *Malaria Journal*, **2013**, 12, 294	3.6	27
70	Progress in imaging methods: insights gained into Plasmodium biology. *Nature Reviews Microbiology*, **2017**, 15, 37-54	22.2	27
69	Multi-character population study of the vir subtelomeric multigene superfamily of Plasmodium vivax, a major human malaria parasite. *Molecular and Biochemical Parasitology*, **2006**, 149, 10-6	1.9	27
68	Characterization of naturally acquired human IgG responses against the N-terminal region of the merozoite surface protein 1 of Plasmodium vivax. *American Journal of Tropical Medicine and Hygiene*, **1994**, 51, 68-76	3.2	27
67	Antigenic properties of the merozoite surface protein 1 gene of Plasmodium vivax. *Vaccine*, **1999**, 17, 2959-68	4.1	26
66	Removal of leucocytes from Plasmodium vivax-infected blood. *Annals of Tropical Medicine and Parasitology*, **1994**, 88, 213-6		26
65	Serum-derived exosomes from non-viremic animals previously exposed to the porcine respiratory and reproductive virus contain antigenic viral proteins. *Veterinary Research*, **2016**, 47, 59	3.8	25
64	Reticulocyte-prone malaria parasites predominantly invade CD71hi immature cells: implications for the development of an in vitro culture for Plasmodium vivax. *Malaria Journal*, **2013**, 12, 434	3.6	25
63	Highlights of the São Paulo ISEV workshop on extracellular vesicles in cross-kingdom communication. *Journal of Extracellular Vesicles*, **2017**, 6, 1407213	16.4	24
62	Plasmodium vivax malaria in Mali: a study from three different regions. *Malaria Journal*, **2012**, 11, 405	3.6	23
61	On cytoadhesion of Plasmodium vivax: raison d'Être?. *Memorias Do Instituto Oswaldo Cruz*, **2011**, 106 Suppl 1, 79-84	2.6	23
60	Construction and characterization of a Plasmodium vivax genomic library in yeast artificial chromosomes. *Genomics*, **1997**, 42, 467-73	4.3	23
59	Evaluation of the acquired immune responses to Plasmodium vivax VIR variant antigens in individuals living in malaria-endemic areas of Brazil. *Malaria Journal*, **2006**, 5, 83	3.6	23

58	Comparison of introns in a cdc2-homologous gene within a number of Plasmodium species. *Molecular and Biochemical Parasitology*, **1995**, 71, 233-41	1.9	23
57	Plasmodium vivax: cloning and expression of a major blood-stage surface antigen. *Experimental Parasitology*, **1988**, 67, 346-53	2.1	23
56	Plasma-derived extracellular vesicles from Plasmodium vivax patients signal spleen fibroblasts via NF-kB facilitating parasite cytoadherence. *Nature Communications*, **2020**, 11, 2761	17.4	22
55	Evaluation of splenic accumulation and colocalization of immature reticulocytes and Plasmodium vivax in asymptomatic malaria: A prospective human splenectomy study. *PLoS Medicine*, **2021**, 18, e1003632	11.6	22
54	Proteomics study of human cord blood reticulocyte-derived exosomes. *Scientific Reports*, **2018**, 8, 14046	4.9	22
53	Characterization of Proteins in Plasma-Derived Exosomes From Malaria-Infected Liver-Chimeric Humanized Mice. *Frontiers in Microbiology*, **2018**, 9, 1271	5.7	20
52	Plasmodium falciparum: new vector with bi-directional promoter activity to stably express transgenes. *Experimental Parasitology*, **2003**, 103, 88-91	2.1	20
51	Genetic immunization of BALB/c mice with a plasmid bearing the gene coding for a hybrid merozoite surface protein 1-hepatitis B virus surface protein fusion protects mice against lethal Plasmodium chabaudi chabaudi PC1 infection. *Infection and Immunity*, **2000**, 68, 5839-45	3.7	20
50	Targeted-pig trial on safety and immunogenicity of serum-derived extracellular vesicles enriched fractions obtained from Porcine Respiratory and Reproductive virus infections. *Scientific Reports*, **2018**, 8, 17487	4.9	19
49	Spleen-Dependent Immune Protection Elicited by CpG Adjuvanted Reticulocyte-Derived Exosomes from Malaria Infection Is Associated with Changes in T cell SubsetsTDistribution. *Frontiers in Cell and Developmental Biology*, **2016**, 4, 131	5.7	18
48	Plasmodium falciparum: DBL-1 var sequence analysis in field isolates from central Brazil. *Experimental Parasitology*, **2000**, 95, 154-7	2.1	17
47	Origins of sequence diversity in the malaria vaccine candidate merozoite surface protein-2 (MSP-2) in Amazonian isolates of Plasmodium falciparum. *Gene*, **2006**, 376, 224-30	3.8	16
46	Second form in a segment of the merozoite surface protein 1 gene of Plasmodium vivax among isolates from Rondônia (Brazil). *Molecular and Biochemical Parasitology*, **1992**, 54, 121-4	1.9	16
45	Constructing Probabilistic Genetic Networks of Plasmodium falciparum from Dynamical Expression Signals of the Intraerythrocytic Development Cycle **2007**, 11-26		16
44	Respiratory Complications of Malaria: Systematic Review and Meta-Analysis. *American Journal of Tropical Medicine and Hygiene*, **2017**, 97, 733-743	3.2	14
43	Longitudinal study of naturally acquired humoral immune responses against the merozoite surface protein 1 of Plasmodium vivax in patients from Rondonia, Brazil. *American Journal of Tropical Medicine and Hygiene*, **1993**, 49, 383-92	3.2	14
42	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, 3275-85	5.3	13
41	spleen-dependent genes encode antigens associated with cytoadhesion and clinical protection. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 13056-13065	11.5	13

40	Morphological and Transcriptional Changes in Human Bone Marrow During Natural Plasmodium vivax Malaria Infections. *Journal of Infectious Diseases*, **2020**,	7	13
39	In vivo and in vitro characterization of a Plasmodium liver stage-specific promoter. *PLoS ONE*, **2015**, 10, e0123473	3.7	12
38	Intravital microscopy of the spleen: quantitative analysis of parasite mobility and blood flow. *Journal of Visualized Experiments*, **2012**,	1.6	12
37	Plasmodium vivax VIR Proteins Are Targets of Naturally-Acquired Antibody and T Cell Immune Responses to Malaria in Pregnant Women. *PLoS Neglected Tropical Diseases*, **2016**, 10, e0005009	4.8	12
36	Sudden spleen rupture in a Plasmodium vivax-infected patient undergoing malaria treatment. *Malaria Journal*, **2018**, 17, 79	3.6	11
35	Imaging of the spleen in malaria. *Parasitology International*, **2014**, 63, 195-205	2.1	11
34	Promoter regions of Plasmodium vivax are poorly or not recognized by Plasmodium falciparum. *Malaria Journal*, **2007**, 6, 20	3.6	11
33	Plasmodium vivax malaria: parasite biology defines potential targets for vaccine development. *Biology of the Cell*, **1988**, 64, 251-60	3.5	11
32	SPECIFICITY OF THE HOST-INDUCED NEGATIVE PHOTOTAXIS OF THE SYMBIOTIC WATER MITE,UNIONICOLA FORMOSA. *Biological Bulletin*, **1982**, 162, 163-170	1.5	11
31	Serum-Derived Extracellular Vesicles from African Swine Fever Virus-Infected Pigs Selectively Recruit Viral and Porcine Proteins. *Viruses*, **2019**, 11,	6.2	10
30	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	2	9
29	Extracellular vesicles derived from Plasmodium-infected and non-infected red blood cells as targeted drug delivery vehicles. *International Journal of Pharmaceutics*, **2020**, 587, 119627	6.5	9
28	Mining the malaria transcriptome. *Trends in Parasitology*, **2005**, 21, 350-2	6.4	9
27	Microsatellite Genotyping of Plasmodium vivax Isolates from Pregnant Women in Four Malaria Endemic Countries. *PLoS ONE*, **2016**, 11, e0152447	3.7	9
26	Red blood cells derived from peripheral blood and bone marrow CD34+ human haematopoietic stem cells are permissive to Plasmodium parasites infection. *Memorias Do Instituto Oswaldo Cruz*, **2013**, 108, 801-3	2.6	8
25	Biochemical and Immunological Properties of a Viral Hybrid Particle Expressing the Plasmodium vivax Merozoite Surface Protein 1 C-terminal Region. *Molecular Medicine*, **2000**, 6, 238-245	6.2	8
24	Naturally Acquired Binding-Inhibitory Antibodies to Duffy Binding Protein in Pregnant Women Are Associated with Higher Birth Weight in a Multicenter Study. *Frontiers in Immunology*, **2017**, 8, 163	8.4	7
23	Characterisation of the Cdc2-related kinase 2 gene from Plasmodium knowlesi and P. berghei. *Molecular and Biochemical Parasitology*, **1998**, 95, 229-40	1.9	6

22	Pilot survey of expressed sequence tags (ESTs) from the asexual blood stages of Plasmodium vivax in human patients. *Malaria Journal*, **2003**, 2, 21	3.6	6
21	Immunochemical analysis of baboon (Papio cynocephalus) IgG subclasses. *Veterinary Immunology and Immunopathology*, **1987**, 16, 201-14	2	6
20	Expression of non-TLR pattern recognition receptors in the spleen of BALB/c mice infected with Plasmodium yoelii and Plasmodium chabaudi chabaudi AS. *Memorias Do Instituto Oswaldo Cruz*, **2012**, 107, 410-5	2.6	6
19	Effect of immunosuppression in miRNAs from extracellular vesicles of colorectal cancer and their influence on the pre-metastatic niche. *Scientific Reports*, **2019**, 9, 11177	4.9	5
18	Primary structure of the Plasmodium vivax crk2 gene and interference of the yeast cell cycle upon its conditional expression. *Experimental Parasitology*, **2001**, 97, 119-28	2.1	5
17	Advances toward the development of an asexual blood stage MSP-1 vaccine of Plasmodium vivax. *Memorias Do Instituto Oswaldo Cruz*, **1994**, 89 Suppl 2, 81-4	2.6	5
16	Development of a genetic tool for functional screening of anti-malarial bioactive extracts in metagenomic libraries. *Malaria Journal*, **2015**, 14, 233	3.6	4
15	Talking to each other to initiate sexual differentiation. *Cell*, **2013**, 153, 945-7	56.2	4
14	Human IgG responses against the N-terminal region of the Merozoite Surface Protein 1 of Plasmodium vivax. *Memorias Do Instituto Oswaldo Cruz*, **1992**, 87 Suppl 3, 77-84	2.6	4
13	Experimental Schistosoma mansoni infection in a small New World monkey, the saddle-back tamarin (Saguinus fuscicollis). *American Journal of Tropical Medicine and Hygiene*, **1986**, 35, 515-22	3.2	4
12	Transient transfection of Plasmodium vivax blood-stage parasites. *Methods in Molecular Biology*, **2013**, 923, 151-9	1.4	3
11	Plasmodium falciparum: epidemiological studies on the circumsporozoite gene. *Experimental Parasitology*, **1987**, 64, 510-3	2.1	3
10	Pitting of malaria parasites in microfluidic devices mimicking spleen interendothelial slits. *Scientific Reports*, **2021**, 11, 22099	4.9	2
9	Cryptic Plasmodium chronic infections: was Maurizio Ascoli right?. *Malaria Journal*, **2020**, 19, 440	3.6	1
8	Exosome-Based Vaccines: Pros and Cons in the World of Animal Health. *Viruses*, **2021**, 13,	6.2	1
7	Plasmodium vivax epidemiology in Ethiopia 2000-2020: A systematic review and meta-analysis. *PLoS Neglected Tropical Diseases*, **2021**, 15, e0009781	4.8	1
6	Antigen Discovery in Circulating Extracellular Vesicles From Patients.. *Frontiers in Cellular and Infection Microbiology*, **2021**, 11, 811390	5.9	0
5	Cryptic erythrocytic infections in Plasmodium vivax, another challenge to its elimination.. *Parasitology International*, **2021**, 87, 102527	2.1	0

4	Multiparameter Flow Cytometry Analysis of the Human Spleen Applied to Studies of Plasma-Derived EVs From Patients. *Frontiers in Cellular and Infection Microbiology*, **2021**, 11, 596104	5.9	0
3	Identification and characterization of an interspersed repetitive DNA fragment in Plasmodium vivax with potential use for specific parasite detection. *Experimental Parasitology*, **2004**, 108, 81-8	2.1	
2	Plasmodium vivax **2016**, 547-564		
1	Extracellular Vesicles From Liver Progenitor Cells Downregulates Fibroblast Metabolic Activity and Increase the Expression of Immune-Response Related Molecules. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 613583	5.7	