Hernando A Del Portillo Obando

List of Publications by Year
in descending order

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130 papers	19,961 citations	50276 46 h-index	14759 127 g-index
133 all docs	133 docs citations	133 times ranked	23397 citing authors

#	Article	IF	Citations
1	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.	12.2	6,961
2	Biological properties of extracellular vesicles and their physiological functions. Journal of Extracellular Vesicles, 2015, 4, 27066.	12.2	3,973
3	Applying extracellular vesicles based therapeutics in clinical trials â€“ an ISEV position paper. Journal of Extracellular Vesicles, 2015, 4, 30087.	12.2	1,020
4	Comparative genomics of the neglected human malaria parasite Plasmodium vivax. Nature, 2008, 455, 757-763.	27.8	756
5	Key gaps in the knowledge of Plasmodium vivax, a neglected human malaria parasite. Lancet Infectious Diseases, The, 2009, 9, 555-566.	9.1	565
6	Evidence-Based Clinical Use of Nanoscale Extracellular Vesicles in Nanomedicine. ACS Nano, 2016, 10, 3886-3899.	14.6	397
7	EVpedia: a community web portal for extracellular vesicles research. Bioinformatics, 2015, 31, 933-939.	4.1	317
8	On the Cytoadhesion ofPlasmodium vivaxâ€“Infected Erythrocytes. Journal of Infectious Diseases, 2010, 202, 638-647.	4.0	259
9	Concise Review: Developing Best-Practice Models for the Therapeutic Use of Extracellular Vesicles. Stem Cells Translational Medicine, 2017, 6, 1730-1739.	3.3	247
10	A superfamily of variant genes encoded in the subtelomeric region of Plasmodium vivax. Nature, 2001, 410, 839-842.	27.8	211
11	Extracellular vesicles in parasitic diseases. Journal of Extracellular Vesicles, 2014, 3, 25040.	12.2	205
12	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, 4030-4034.	7.1	189
13	The role of the spleen in malaria. Cellular Microbiology, 2012, 14, 343-355.	2.1	184
14	Postmortem Characterization of Patients With Clinical Diagnosis of Plasmodium vivax Malaria: To What Extent Does This Parasite Kill?. Clinical Infectious Diseases, 2012, 55, e67-e74.	5.8	176
15	Evidence for Different Mechanisms of Chloroquine Resistance in 2PlasmodiumSpecies That Cause Human Malaria. Journal of Infectious Diseases, 2001, 183, 1653-1661.	4.0	175
16	Exosomes from Plasmodium yoelii-Infected Reticulocytes Protect Mice from Lethal Infections. PLoS ONE, 2011, 6, e26588.	2.5	167
17	Sizeâ€exclusion chromatography as a standâ€alone methodology identifies novel markers in mass spectrometry analyses of plasmaâ€derived vesicles from healthy individuals. Journal of Extracellular Vesicles, 2015, 4, 27378.	12.2	158
18	Sizeâ€exclusion chromatographyâ€based enrichment of extracellular vesicles from urine samples. Journal of Extracellular Vesicles, 2015, 4, 27369.	12.2	153

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19	Heat shock induction of apoptosis in promastigotes of the unicellular organismLeishmania (Leishmania) amazonensis. Journal of Cellular Physiology, 1996, 167, 305-313.	4.1	139
20	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.	2.3	126
21	The Methylerythritol Phosphate Pathway Is Functionally Active in All Intraerythrocytic Stages of Plasmodium falciparum. Journal of Biological Chemistry, 2004, 279, 51749-51759.	3.4	116
22	Relapses Contribute Significantly to the Risk of Plasmodium vivax Infection and Disease in Papua New Guinean Children 1â€“5 Years of Age. Journal of Infectious Diseases, 2012, 206, 1771-1780.	4.0	108
23	Key Gaps in the Knowledge of the Porcine Respiratory Reproductive Syndrome Virus (PRRSV). Frontiers in Veterinary Science, 2019, 6, 38.	2.2	88
24	Association of Severe Noncerebral Plasmodium falciparum Malaria in Brazil With Expressed PfEMP1 DBL1Î± Sequences Lacking Cysteine Residues. Molecular Medicine, 2002, 8, 16-23.	4.4	87
25	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.	2.1	86
26	A functional microengineered model of the human splenon-on-a-chip. Lab on A Chip, 2014, 14, 1715-1724.	6.0	85
27	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, 357-363.	1.4	85
28	The Role of Extracellular Vesicles in Modulating the Host Immune Response during Parasitic Infections. Frontiers in Immunology, 2014, 5, 433.	4.8	73
29	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, 256-259.	1.2	72
30	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.	3.0	68
31	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, 2726-2733.	2.2	62
32	Analysis of Single-Nucleotide Polymorphisms in thecrt-oandmdr1Genes ofPlasmodium vivaxamong Chloroquine-Resistant Isolates from the Brazilian Amazon Region. Antimicrobial Agents and Chemotherapy, 2009, 53, 3561-3564.	3.2	62
33	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.	2.3	61
34	The machinery underlying malaria parasite virulence is conserved between rodent and human malaria parasites. Nature Communications, 2016, 7, 11659.	12.8	61
35	Variant genes and the spleen in Plasmodium vivax malaria. International Journal for Parasitology, 2004, 34, 1547-1554.	3.1	60
36	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.	8.4	60

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37	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.	2.5	57
38	Variant proteins ofPlasmodium vivaxare not clonally expressed in natural infections. Molecular Microbiology, 2005, 58, 648-658.	2.5	56
39	Plasma-derived extracellular vesicles from Plasmodium vivax patients signal spleen fibroblasts via NF-kB facilitating parasite cytoadherence. Nature Communications, 2020, 11, 2761.	12.8	56
40	Paucity of Plasmodium vivax Mature Schizonts in Peripheral Blood Is Associated With Their Increased Cytoadhesive Potential. Journal of Infectious Diseases, 2014, 209, 1403-1407.	4.0	55
41	Characterization of Plasmodium vivax-associated admissions to reference hospitals in Brazil and India. BMC Medicine, 2015, 13, 57.	5.5	54
42	Computational methods in noncoding RNA research. Journal of Mathematical Biology, 2008, 56, 15-49.	1.9	53
43	Plasmodium vivax and the importance of the subtelomeric multigene vir superfamily. Trends in Parasitology, 2009, 25, 44-51.	3.3	52
44	Increased expression levels of the pvcrt-o and pvmdr1 genes in a patient with severe Plasmodium vivax malaria. Malaria Journal, 2009, 8, 55.	2.3	52
45	Expression and function of pvcrt-o, a Plasmodium vivax ortholog of pfcrt, in Plasmodium falciparum and Dictyostelium discoideum. Molecular and Biochemical Parasitology, 2006, 150, 219-228.	1.1	51
46	Spleen Rupture in a Case of Untreated Plasmodium vivax Infection. PLoS Neglected Tropical Diseases, 2012, 6, e1934.	3.0	51
47	Circumsporozoite gene of a Plasmodium falciparum strain from Thailand. Molecular and Biochemical Parasitology, 1987, 24, 289-294.	1.1	49
48	Molecular Analysis ofPlasmodium vivaxRelapses Using the MSP1 Molecule as a Genetic Marker. Journal of Infectious Diseases, 1998, 177, 511-515.	4.0	47
49	Rosetting in Plasmodium vivax: A Cytoadhesion Phenotype Associated with Anaemia. PLoS Neglected Tropical Diseases, 2013, 7, e2155.	3.0	47
50	Malaria parasites contain two identical copies of an elongation factor 1 alpha gene1Note: Nucleotide sequence data reported in this paper are available in the EMBL, GenBankâ„¢ and DDJB databases under the accession numbers AJ224150, AJ224151, AJ224153 and AJ224154.1. Molecular and Biochemical Parasitology, 1998, 94, 1-12.	1.1	46
51	Burden and impact of Plasmodium vivax in pregnancy: A multi-centre prospective observational study. PLoS Neglected Tropical Diseases, 2017, 11, e0005606.	3.0	46
52	Clinical and molecular aspects of severe malaria. Anais Da Academia Brasileira De Ciencias, 2005, 77, 455-475.	0.8	44
53	Malaria parasites lacking eef1a have a normal S/M phase yet grow more slowly due to a longer G1 phase. Molecular Microbiology, 2003, 50, 1539-1551.	2.5	43
54	Strain-specific spleen remodelling in Plasmodium yoelii infections in Balb/c mice facilitates adherence and spleen macrophage-clearance escape. Cellular Microbiology, 2011, 13, 109-122.	2.1	43

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55	Placental Infection With Plasmodium vivax: A Histopathological and Molecular Study. Journal of Infectious Diseases, 2012, 206, 1904-1910.	4.0	43
56	Characterization of Plasmodium vivax Proteins in Plasma-Derived Exosomes From Malaria-Infected Liver-Chimeric Humanized Mice. Frontiers in Microbiology, 2018, 9, 1271.	3.5	43
57	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.	3.0	42
58	Progress in imaging methods: insights gained into Plasmodium biology. Nature Reviews Microbiology, 2017, 15, 37-54.	28.6	41
59	A new computational approach redefines the subtelomeric vir superfamily of Plasmodium vivax. BMC Genomics, 2013, 14, 8.	2.8	40
60	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.	2.3	39
61	Highlights of the SÃ£o Paulo ISEV workshop on extracellular vesicles in crossâ€kingdom communication. Journal of Extracellular Vesicles, 2017, 6, 1407213.	12.2	38
62	Spleen-Dependent Immune Protection Elicited by CpG Adjuvanted Reticulocyte-Derived Exosomes from Malaria Infection Is Associated with Changes in T cell Subsets' Distribution. Frontiers in Cell and Developmental Biology, 2016, 4, 131.	3.7	37
63	Extense variant gene family repertoire overlap in Western Amazon Plasmodium falciparum isolates. Molecular and Biochemical Parasitology, 2006, 150, 157-165.	1.1	35
64	Pregnancy and Malaria Exposure Are Associated with Changes in the B Cell Pool and in Plasma Eotaxin Levels. Journal of Immunology, 2014, 193, 2971-2983.	0.8	34
65	Declining malaria transmission in rural Amazon: changing epidemiology and challenges to achieve elimination. Malaria Journal, 2016, 15, 266.	2.3	33
66	Proteomics study of human cord blood reticulocyte-derived exosomes. Scientific Reports, 2018, 8, 14046.	3.3	32
67	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.	1.4	32
68	Multi-character population study of the vir subtelomeric multigene superfamily of Plasmodium vivax, a major human malaria parasite. Molecular and Biochemical Parasitology, 2006, 149, 10-16.	1.1	31
69	Removal of leucocytes fromPlasmodium vivax-infected blood. Annals of Tropical Medicine and Parasitology, 1994, 88, 213-216.	1.6	30
70	On cytoadhesion of Plasmodium vivax: raison d'Ãªtre?. Memorias Do Instituto Oswaldo Cruz, 2011, 106, 79-84.	1.6	30
71	High levels of IgG3 anti ICB2-5 in Plasmodium vivax-infected individuals who did not develop symptoms. Malaria Journal, 2013, 12, 294.	2.3	30
72	Morphological and Transcriptional Changes in Human Bone Marrow During Natural Plasmodium vivax Malaria Infections. Journal of Infectious Diseases, 2022, 225, 1274-1283.	4.0	30

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73	Antigenic properties of the merozoite surface protein 1 gene of Plasmodium vivax. Vaccine, 1999, 17, 2959-2968.	3.8	29
74	Plasmodium vivax malaria in Mali: a study from three different regions. Malaria Journal, 2012, 11, 405.	2.3	29
75	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.	2.3	29
76	Plasmodium vivaxspleen-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.	7.1	29
77	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.	2.3	28
78	Construction and Characterization of aPlasmodium vivaxGenomic Library in Yeast Artificial Chromosomes. Genomics, 1997, 42, 467-473.	2.9	26
79	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.	3.3	26
80	Extracellular vesicles derived from Plasmodium-infected and non-infected red blood cells as targeted drug delivery vehicles. International Journal of Pharmaceutics, 2020, 587, 119627.	5.2	26
81	Plasmodium vivax: Cloning and expression of a major blood-stage surface antigen. Experimental Parasitology, 1988, 67, 346-353.	1.2	25
82	Comparison of introns in a cdc2-homologous gene within a number of Plasmodium species. Molecular and Biochemical Parasitology, 1995, 71, 233-241.	1.1	24
83	Plasmodium falciparum: new vector with bi-directional promoter activity to stably express transgenes. Experimental Parasitology, 2003, 103, 88-91.	1.2	23
84	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, 5839-5845.	2.2	21
85	Respiratory Complications of Plasmodium vivax Malaria: Systematic Review and Meta-Analysis. American Journal of Tropical Medicine and Hygiene, 2017, 97, 733-743.	1.4	20
86	Second form in a segment of the Merozoite Surface Protein 1 gene of Plasmodium vivax among isolates from RondÂnia (Brazil). Molecular and Biochemical Parasitology, 1992, 54, 121-124.	1.1	19
87	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, 3275-3285.	0.8	19
88	Plasmodium falciparum: DBL-1 Var Sequence Analysis in Field Isolates from Central Brazil. Experimental Parasitology, 2000, 95, 154-157.	1.2	18
89	In Vivo and In Vitro Characterization of a Plasmodium Liver Stage-Specific Promoter. PLoS ONE, 2015, 10, e0123473.	2.5	18
90	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.	3.0	18

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91	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, 383-392.	1.4	18
92	SPECIFICITY OF THE HOST-INDUCED NEGATIVE PHOTOTAXIS OF THE SYMBIOTIC WATER MITE,UNIONICOLA FORMOSA. Biological Bulletin, 1982, 162, 163-170.	1.8	17
93	Origins of sequence diversity in the malaria vaccine candidate merozoite surface protein-2 (MSP-2) in Amazonian isolates of Plasmodium falciparum. Gene, 2006, 376, 224-230.	2.2	17
94	Serum-Derived Extracellular Vesicles from African Swine Fever Virus-Infected Pigs Selectively Recruit Viral and Porcine Proteins. Viruses, 2019, 11, 882.	3.3	17
95	Sudden spleen rupture in a Plasmodium vivax-infected patient undergoing malaria treatment. Malaria Journal, 2018, 17, 79.	2.3	16
96	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.	1.3	15
97	Promoter regions of Plasmodium vivax are poorly or not recognized by Plasmodium falciparum. Malaria Journal, 2007, 6, 20.	2.3	13
98	Intravital Microscopy of the Spleen: Quantitative Analysis of Parasite Mobility and Blood Flow. Journal of Visualized Experiments, 2012, , .	0.3	13
99	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, 801-803.	1.6	13
100	Imaging of the spleen in malaria. Parasitology International, 2014, 63, 195-205.	1.3	13
101	Plasmodium vivax malaria: parasite biology defines potential targets for vaccine development. Biology of the Cell, 1988, 64, 251-260.	2.0	12
102	Exosome-Based Vaccines: Pros and Cons in the World of Animal Health. Viruses, 2021, 13, 1499.	3.3	12
103	Plasmodium vivax epidemiology in Ethiopia 2000-2020: A systematic review and meta-analysis. PLoS Neglected Tropical Diseases, 2021, 15, e0009781.	3.0	12
104	Microsatellite Genotyping of Plasmodium vivax Isolates from Pregnant Women in Four Malaria Endemic Countries. PLoS ONE, 2016, 11, e0152447.	2.5	12
105	Naturally Acquired Binding-Inhibitory Antibodies to Plasmodium vivax Duffy Binding Protein in Pregnant Women Are Associated with Higher Birth Weight in a Multicenter Study. Frontiers in Immunology, 2017, 8, 163.	4.8	11
106	Effect of immunosuppression in miRNAs from extracellular vesicles of colorectal cancer and their influence on the pre-metastatic niche. Scientific Reports, 2019, 9, 11177.	3.3	11
107	Immunochemical analysis of baboon () IgG subclasses. Veterinary Immunology and Immunopathology, 1987, 16, 201-214.	1.2	10
108	Mining the malaria transcriptome. Trends in Parasitology, 2005, 21, 350-352.	3.3	10

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109	Cryptic erythrocytic infections in Plasmodium vivax, another challenge to its elimination. Parasitology International, 2022, 87, 102527.	1.3	10
110	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.	4.4	9
111	Antigen Discovery in Circulating Extracellular Vesicles From Plasmodium vivax Patients. Frontiers in Cellular and Infection Microbiology, 2021, 11, 811390.	3.9	9
112	Advances toward the development of an asexual blood stage MSP-1 vaccine of Plasmodium vivax. Memorias Do Instituto Oswaldo Cruz, 1994, 89, 81-84.	1.6	8
113	Characterisation of the Cdc2-related kinase 2 gene from Plasmodium knowlesi and P. berghei. Molecular and Biochemical Parasitology, 1998, 95, 229-240.	1.1	7
114	Pilot survey of expressed sequence tags (ESTs) from the asexual blood stages of Plasmodium vivax in human patients. Malaria Journal, 2003, 2, 21.	2.3	7
115	Pitting of malaria parasites in microfluidic devices mimicking spleen interendothelial slits. Scientific Reports, 2021, 11, 22099.	3.3	7
116	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, 410-415.	1.6	6
117	Human IgG responses against the N-terminal region of Merozoite Surface Protein 1 of Plasmodium vivax. Memorias Do Instituto Oswaldo Cruz, 1992, 87, 77-84.	1.6	5
118	Primary Structure of the Plasmodium vivax crk2 Gene and Interference of the Yeast Cell Cycle upon Its Conditional Expression. Experimental Parasitology, 2001, 97, 119-128.	1.2	5
119	Talking to Each Other to Initiate Sexual Differentiation. Cell, 2013, 153, 945-947.	28.9	5
120	Development of a genetic tool for functional screening of anti-malarial bioactive extracts in metagenomic libraries. Malaria Journal, 2015, 14, 233.	2.3	5
121	Plasmodium falciparum: Epidemiological studies on the circumsporozoite gene. Experimental Parasitology, 1987, 64, 510-513.	1.2	4
122	Multiparameter Flow Cytometry Analysis of the Human Spleen Applied to Studies of Plasma-Derived EVs From Plasmodium vivax Patients. Frontiers in Cellular and Infection Microbiology, 2021, 11, 596104.	3.9	4
123	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, 515-522.	1.4	4
124	Transient Transfection of Plasmodium vivax Blood-Stage Parasites. Methods in Molecular Biology, 2012, 923, 151-159.	0.9	3
125	Advancing Key Gaps in the Knowledge of Plasmodium vivax Cryptic Infections Using Humanized Mouse Models and Organs-on-Chips. Frontiers in Cellular and Infection Microbiology, 0, 12, .	3.9	3
126	Cryptic Plasmodium chronic infections: was Maurizio Ascoli right?. Malaria Journal, 2020, 19, 440.	2.3	1

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127	Editorial on the special issue on Plasmodium vivax: Current situation and challenges towards elimination. Parasitology International, 2022, 89, 102594.	1.3	1
128	Latin American scientists meet at Caracas. Parasitology Today, 1993, 9, 351.	3.0	0
129	Identification and characterization of an interspersed repetitive DNA fragment in Plasmodium vivax with potential use for specific parasite detection. Experimental Parasitology, 2004, 108, 81-88.	1.2	0
130	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.	3.7	0