FranÃ§oise Benoit-Vical

List of Publications by Year
in descending order

119 papers	7,075 citations	76326 40 h-index	62596 80 g-index
122 all docs	122 docs citations	122 times ranked	6905 citing authors

#	Article	IF	Citations
1	A molecular marker of artemisinin-resistant Plasmodium falciparum malaria. Nature, 2014, 505, 50-55.	27.8	1,617
2	K13-propeller mutations confer artemisinin resistance in Plasmodium falciparum clinical isolates. Science, 2015, 347, 428-431.	12.6	563
3	Increased Tolerance to Artemisinin in Plasmodium falciparum Is Mediated by a Quiescence Mechanism. Antimicrobial Agents and Chemotherapy, 2010, 54, 1872-1877.	3.2	258
4	Reduced Artemisinin Susceptibility of Plasmodium falciparum Ring Stages in Western Cambodia. Antimicrobial Agents and Chemotherapy, 2013, 57, 914-923.	3.2	233
5	Concentration and purification by magnetic separation of the erythrocytic stages of all human Plasmodium species. Malaria Journal, 2008, 7, 45.	2.3	191
6	The antimalarial drug artemisinin alkylates heme in infected mice. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13676-13680.	7.1	167
7	Antiplasmodial and Cytotoxic Activity of Galipinine and other Tetrahydroquinolines from Galipea officinalis. Planta Medica, 2002, 68, 68-69.	1.3	162
8	Trioxaquines Are New Antimalarial Agents Active on All Erythrocytic Forms, Including Gametocytes. Antimicrobial Agents and Chemotherapy, 2007, 51, 1463-1472.	3.2	145
9	Preparation and Antimalarial Activities of â€œTrioxaquinesâ€, New Modular Molecules with a Trioxane Skeleton Linked to a 4-Aminoquinoline. ChemBioChem, 2000, 1, 281-283.	2.6	144
10	Severe Imported Falciparum Malaria: A Cohort Study in 400 Critically Ill Adults. PLoS ONE, 2010, 5, e13236.	2.5	134
11	Synthesis and Antimalarial Activity of Trioxaquine Derivatives. Chemistry - A European Journal, 2004, 10, 1625-1636.	3.3	127
12	In Vitro and In Vivo Properties of Ellagic Acid in Malaria Treatment. Antimicrobial Agents and Chemotherapy, 2009, 53, 1100-1106.	3.2	116
13	Plasmodium falciparum resistance to artemisinin-based combination therapies: A sword of Damocles in the path toward malaria elimination. Parasite, 2018, 25, 24.	2.0	111
14	In Vitro Antimalarial Activity of Vegetal Extracts Used in West African Traditional Medicine. American Journal of Tropical Medicine and Hygiene, 1996, 54, 67-71.	1.4	103
15	Are West African plants a source of future antimalarial drugs?. Journal of Ethnopharmacology, 2007, 114, 130-140.	4.1	95
16	In vitro antiplasmodial activity of 18 plants used in Congo Brazzaville traditional medicine. Journal of Ethnopharmacology, 2006, 104, 168-174.	4.1	91
17	Plasmodium falciparum: multifaceted resistance to artemisinins. Malaria Journal, 2016, 15, 149.	2.3	91
18	Analysis of the parasitic copepod species richness among Mediterranean fish. Journal of Marine Systems, 1998, 15, 185-206.	2.1	85

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19	IL-13 induces expression of CD36 in human monocytes through PPARÎ³ activation. European Journal of Immunology, 2007, 37, 1642-1652.	2.9	83
20	Synthesis, structures, and antimalarial activities of some silver(I), gold(I) and gold(III) complexes involving N-heterocyclic carbene ligands. European Journal of Medicinal Chemistry, 2013, 60, 64-75.	5.5	82
21	Analgesic and anti-inflammatory effects of Cassia siamea Lam. stem bark extracts. Journal of Ethnopharmacology, 2010, 127, 108-111.	4.1	78
22	Composition and antimalarial activity in vitro of volatile components of lippia multiflora. Phytochemistry, 1995, 40, 1439-1442.	2.9	77
23	In vitro antiplasmodial activity of stem and root extracts of Nauclea latifolia S.M. (Rubiaceae). Journal of Ethnopharmacology, 1998, 61, 173-178.	4.1	76
24	From classical antimalarial drugs to new compounds based on the mechanism of action of artemisinin. Pure and Applied Chemistry, 2001, 73, 1173-1188.	1.9	74
25	Synthesis, Structures, and Biological Studies of Heterobimetallic Au(I)â€“Ru(II) Complexes Involving N-Heterocyclic Carbene-Based Multidentate Ligands. Organometallics, 2015, 34, 1046-1055.	2.3	73
26	Nrf2, a PPARÎ³ Alternative Pathway to Promote CD36 Expression on Inflammatory Macrophages: Implication for Malaria. PLoS Pathogens, 2011, 7, e1002254.	4.7	70
27	Antiplasmodial activity of plant extracts used in west African traditional medicine. Journal of Ethnopharmacology, 2000, 73, 145-151.	4.1	66
28	Antiplasmodial and antifungal activities of iridal, a plant triterpenoid. Phytochemistry, 2003, 62, 747-751.	2.9	62
29	Severe ImportedPlasmodium falciparumMalaria, France, 1996â€“2003. Emerging Infectious Diseases, 2011, 17, 807-813.	4.3	61
30	Trioxaquines and Heme-Artemisinin Adducts Inhibit the In Vitro Formation of Hemozoin Better than Chloroquine. Antimicrobial Agents and Chemotherapy, 2007, 51, 3768-3770.	3.2	59
31	An alternative method for Plasmodium culture synchronization. Experimental Parasitology, 2005, 109, 195-197.	1.2	58
32	In vitro antimalarial activity of penduline, a bisbenzylisoquinoline from Isopyrum thalictroides. Antimicrobial Agents and Chemotherapy, 1997, 41, 2305-2307.	3.2	56
33	Antimalarial activity in vitro of Cochlospermum tinctorium tubercle extracts. Transactions of the Royal Society of Tropical Medicine and Hygiene, 1995, 89, 217-218.	1.8	50
34	Delayed-Onset Hemolytic Anemia in Patients with Travel-Associated Severe Malaria Treated with Artesunate, France, 2011â€“2013. Emerging Infectious Diseases, 2015, 21, 804-812.	4.3	49
35	Nâ€™Dribala (Cochlospermum planchonii) versus chloroquine for treatment of uncomplicated Plasmodium falciparum malaria. Journal of Ethnopharmacology, 2003, 89, 111-114.	4.1	47
36	The key role of heme to trigger the antimalarial activity of trioxanes. Coordination Chemistry Reviews, 2005, 249, 1927-1936.	18.8	47

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37	PCR-based methods to the diagnosis of imported malaria. Parasite, 2008, 15, 484-488.	2.0	45
38	Imported Plasmodium knowlesi Malaria in a French Tourist Returning from Thailand. American Journal of Tropical Medicine and Hygiene, 2011, 84, 535-538.	1.4	44
39	In vitroAntimalarial Activity and Cytotoxicity ofCochlospermum tinctoriumandC planchoniiLeaf Extracts and Essential Oils. Planta Medica, 1999, 65, 378-381.	1.3	42
40	In Vitro and In Vivo Potentiation of Artemisinin and Synthetic Endoperoxide Antimalarial Drugs by Metalloporphyrins. Antimicrobial Agents and Chemotherapy, 2000, 44, 2836-2841.	3.2	40
41	The Antimalarial Trioxaquine DU1301 Alkylates Heme in Malaria-Infected Mice. Antimicrobial Agents and Chemotherapy, 2008, 52, 2966-2969.	3.2	40
42	Do ethnobotanical and laboratory data predict clinical safety and efficacy of anti-malarial plants?. Malaria Journal, 2011, 10, S7.	2.3	40
43	Effects of Antimalarial Molecules on the Gametocyte Stage of Plasmodium falciparum: The Debate. Journal of Medicinal Chemistry, 2012, 55, 10328-10344.	6.4	40
44	Induction of Multidrug Tolerance inPlasmodium falciparumby Extended Artemisinin Pressure. Emerging Infectious Diseases, 2015, 21, 1733-1741.	4.3	40
45	Perceived Risks and Reported Behaviors Associated with Osteoporosis and Its Treatment. Women and Health, 2001, 31, 21-40.	1.0	39
46	Modifications of the chemical structure of terpenes in antiplasmodial and antifungal drug research. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 6075-6078.	2.2	33
47	Epidemiologic Trends in Malaria Incidence Among Travelers Returning to Metropolitan France, 1996-2016. JAMA Network Open, 2019, 2, e191691.	5.9	33
48	Resistance to antimalarial compounds: Methods and applications. Drug Resistance Updates, 2009, 12, 42-50.	14.4	30
49	Anti-Toxoplasmaactivity of vegetal extracts used in West African traditional medicine. Parasite, 2000, 7, 3-7.	2.0	29
50	In vitro and in vivo Antiplasmodial Activity of <i>Momordica balsamina</i> Alone or in a Traditional Mixture. Chemotherapy, 2006, 52, 288-292.	1.6	28
51	Plasmodium falciparum Isolates with Increased pfmdr1 Copy Number Circulate in West Africa. Antimicrobial Agents and Chemotherapy, 2010, 54, 3049-3051.	3.2	28
52	Longitudinal study assessing the return of chloroquine susceptibility of Plasmodium falciparum in isolates from travellers returning from West and Central Africa, 2000â€“2011. Malaria Journal, 2013, 12, 35.	2.3	28
53	Multinormal in vitro distribution of Plasmodium falciparum susceptibility to piperaquine and pyronaridine. Malaria Journal, 2015, 14, 49.	2.3	28
54	In vitro piperaquine susceptibility is not associated with the Plasmodium falciparum chloroquine resistance transporter gene. Malaria Journal, 2013, 12, 431.	2.3	27

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55	Molecular monitoring of plasmodium falciparum drug susceptibility at the time of the introduction of artemisinin-based combination therapy in YaoundÃ©, Cameroon: Implications for the future. Malaria Journal, 2012, 11, 113.	2.3	26
56	Chloroquine-Resistant Malaria in Travelers Returning from Haiti after 2010 Earthquake. Emerging Infectious Diseases, 2012, 18, 1346-1349.	4.3	26
57	Ex vivo activity of the ACT new components pyronaridine and piperaquine in comparison with conventional ACT drugs against isolates of Plasmodium falciparum. Malaria Journal, 2012, 11, 45.	2.3	26
58	Prevalence of Plasmodium falciparum cytochrome b gene mutations in isolates imported from Africa, and implications for atovaquone resistance. Transactions of the Royal Society of Tropical Medicine and Hygiene, 2006, 100, 986-988.	1.8	25
59	Molecular surveillance of Plasmodium falciparum resistance to artemisinin-based combination therapies in the Democratic Republic of Congo. PLoS ONE, 2017, 12, e0179142.	2.5	25
60	Implication of Glutathione in the In Vitro Antiplasmodial Mechanism of Action of Ellagic Acid. PLoS ONE, 2012, 7, e45906.	2.5	24
61	8. DEVELOPING VANADIUM AS AN ANTIDIABETIC OR ANTICANCER DRUG: A CLINICAL AND HISTORICAL PERSPECTIVE. , 2019, 19, 203-230.		24
62	Resistance to artemisinin in falciparum malaria parasites: A redox-mediated phenomenon. Free Radical Biology and Medicine, 2022, 179, 317-327.	2.9	24
63	Indole and aminoimidazole moieties appear as key structural units in antiplasmodial molecules. Phytomedicine, 2011, 18, 1118-1125.	5.3	23
64	Reactive Oxygen Species as the Brainbox in Malaria Treatment. Antioxidants, 2021, 10, 1872.	5.1	23
65	Evaluation of Senegalese plants used in malaria treatment: Focus on Chrozophora senegalensis. Journal of Ethnopharmacology, 2008, 116, 43-48.	4.1	21
66	Girolline: A Potential Lead Structure For Antiplasmodial Drug Research. Planta Medica, 2008, 74, 438-444.	1.3	21
67	Antiplasmodial activities of gold(I) complexes involving functionalized N -heterocyclic carbenes. Bioorganic and Medicinal Chemistry, 2016, 24, 3075-3082.	3.0	21
68	Potentiation of Artemisinin Activity against Chloroquine-Resistant Plasmodium falciparum Strains by Using Heme Models. Antimicrobial Agents and Chemotherapy, 1999, 43, 2555-2558.	3.2	20
69	Use of a Locked-Nucleic-Acid Oligomer in the Clamped-Probe Assay for Detection of a Minority Pfcrt K76T Mutant Population of Plasmodium falciparum. Journal of Clinical Microbiology, 2005, 43, 3304-3308.	3.9	19
70	Evidence for the Contribution of the Hemozoin Synthesis Pathway of the Murine Plasmodium yoelii to the Resistance to Artemisinin-Related Drugs. PLoS ONE, 2012, 7, e32620.	2.5	19
71	Both plants Sebastiania chamaelea from Niger and Chrozophora senegalensis from Senegal used in African traditional medicine in malaria treatment share a same active principle. Journal of Ethnopharmacology, 2013, 149, 676-684.	4.1	19
72	Detection by real-time PCR of the Pfcrt T76 mutation, a molecular marker of chloroquine-resistant Plasmodium falciparum strains. Parasitology Research, 2004, 93, 5-7.	1.6	18

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73	In Vivo Efficacy and Parasite Clearance of Artesunate + Sulfadoxineâ€“Pyrimethamine Versus Artemetherâ€“Lumefantrine in Mali. American Journal of Tropical Medicine and Hygiene, 2016, 94, 634-639.	1.4	18
74	Evaluation of antiplasmodial and antileishmanial activities of herbal medicine Pseudelephantopus spiralis (Less.) Cronquist and isolated hirsutinolide-type sesquiterpenoids. Journal of Ethnopharmacology, 2015, 170, 167-174.	4.1	17
75	Antiplasmodial Activity ofCochlospermum planchoniiand C.tinctoriumTubercle Essential Oils. Journal of Essential Oil Research, 2001, 13, 65-67.	2.7	16
76	Pfs 16 pivotal role in Plasmodium falciparum gametocytogenesis: A potential antiplasmodial drug target. Experimental Parasitology, 2009, 121, 189-192.	1.2	16
77	Samvisterin, a new natural antiplasmodial betulin derivative from Uapaca paludosa (Euphorbiaceae). Journal of Ethnopharmacology, 2015, 173, 100-104.	4.1	16
78	Cogniauxia Podolaena: Bioassay-Guided Fractionation of Defoliated Stems, Isolation of Active Compounds, Antiplasmodial Activity and Cytotoxicity. Planta Medica, 2008, 74, 1453-1456.	1.3	15
79	pfmdr1 Amplification Associated with Clinical Resistance to Mefloquine in West Africa: Implications for Efficacy of Artemisinin Combination Therapies. Journal of Clinical Microbiology, 2010, 48, 3797-3799.	3.9	15
80	An LCâ€“MS Assay to Measure Superoxide Radicals and Hydrogen Peroxide in the Blood System. Metabolites, 2020, 10, 175.	2.9	15
81	Correlation between Plasmodium yoelii nigeriensis Susceptibility to Artemisinin and Alkylation of Heme by the Drug. Antimicrobial Agents and Chemotherapy, 2013, 57, 3998-4000.	3.2	14
82	Endoperoxide-based compounds: cross-resistance with artemisinins and selection of a Plasmodium falciparum lineage with a K13 non-synonymous polymorphism. Journal of Antimicrobial Chemotherapy, 2018, 73, 395-403.	3.0	14
83	Identification of compounds active against quiescent artemisinin-resistant Plasmodium falciparum parasites via the quiescent-stage survival assay (QSA). Journal of Antimicrobial Chemotherapy, 2020, 75, 2826-2834.	3.0	14
84	Superoxide: A major role in the mechanism of action of essential antimalarial drugs. Free Radical Biology and Medicine, 2021, 167, 271-275.	2.9	14
85	Mutation in the Plasmodium falciparum BTB/POZ Domain of K13 Protein Confers Artemisinin Resistance. Antimicrobial Agents and Chemotherapy, 2022, 66, AAC0132021.	3.2	14
86	In vitro phenotype of reduced susceptibility to artemisinin in Plasmodium falciparum isolates from western Cambodia. International Journal of Infectious Diseases, 2012, 16, e178.	3.3	13
87	Hybrid Gold(I) NHC-Artemether Complexes to Target Falciparum Malaria Parasites. Molecules, 2020, 25, 2817.	3.8	13
88	The Plasmodium falciparum chloroquine resistance transporter is associated with the ex vivo P. falciparum African parasite response to pyronaridine. Parasites and Vectors, 2016, 9, 77.	2.5	12
89	Gold(I) complexes bearing phosphole ligands: Synthesis and antimalarial activity. Comptes Rendus Chimie, 2017, 20, 333-338.	0.5	12
90	Absence of a High Level of Duplication of the Plasmepsin II Gene in Africa. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	11

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91	Prevalence of mutations in the Plasmodium falciparum chloroquine resistance transporter, PfCRT, and association with ex vivo susceptibility to common anti-malarial drugs against African Plasmodium falciparum isolates. Malaria Journal, 2020, 19, 201.	2.3	11
92	Surveillance of Travellers: An Additional Tool for Tracking Antimalarial Drug Resistance in Endemic Countries. PLoS ONE, 2013, 8, e77775.	2.5	11
93	Recent Advances in Malaria Chemotherapy. Journal of the Chinese Chemical Society, 2002, 49, 301-310.	1.4	10
94	Synthesis and biological evaluation of a new trioxaquine containing a trioxane moiety obtained by halogenocyclisation of a hemiperoxyacetal. Comptes Rendus Chimie, 2003, 6, 153-160.	0.5	10
95	A New Thienopyrimidinone Chemotype Shows Multistage Activity against Plasmodium falciparum, Including Artemisinin-Resistant Parasites. Microbiology Spectrum, 2021, 9, e0027421.	3.0	10
96	Alkoxyamines Designed as Potential Drugs against Plasmodium and Schistosoma Parasites. Molecules, 2020, 25, 3838.	3.8	9
97	EX VIVO AND IN VITRO IMPAIRMENT OF CD36 EXPRESSION AND TUMOR NECROSIS FACTOR-Î± PRODUCTION IN HUMAN MONOCYTES IN RESPONSE TO PLASMODIUM FALCIPARUMâ€“PARASITIZED ERYTHROCYTES. Journal of Parasitology, 2005, 91, 316-322.	0.7	8
98	Antiprotozoal properties of Indonesian medicinal plant extracts. Journal of Herbal Medicine, 2018, 11, 46-52.	2.0	8
99	Pfcrt K76T mutation and its associations in imported Plasmodium falciparum malaria cases. Infection, Genetics and Evolution, 2004, 4, 361-364.	2.3	7
100	Design, Synthesis and Efficacy of Hybrid Triclosanâ€gold Based Molecules on Artemisininâ€resistant Plasmodium falciparum and Leishmania infantum Parasites. ChemistrySelect, 2020, 5, 619-625.	1.5	7
101	Antiprotozoal Activities of Millettia richardiana (Fabaceae) from Madagascar. Molecules, 2014, 19, 4200-4211.	3.8	6
102	The D113N mutation in the RING E3 ubiquitin protein ligase gene is not associated with ex vivo susceptibility to common anti-malarial drugs in African Plasmodium falciparum isolates. Malaria Journal, 2018, 17, 108.	2.3	6
103	Young Sprague Dawley rats infected by Plasmodium berghei: A relevant experimental model to study cerebral malaria. PLoS ONE, 2017, 12, e0181300.	2.5	6
104	Ethnomedicine in malaria treatment. IDrugs: the Investigational Drugs Journal, 2005, 8, 45-52.	0.7	6
105	2. SMALL MOLECULES: THE PAST OR THE FUTURE IN DRUG INNOVATION?. , 2019, , 17-48.		5
106	Novel molecule combinations and corresponding hybrids targeting artemisinin-resistant Plasmodium falciparum parasites. Bioorganic and Medicinal Chemistry Letters, 2021, 39, 127884.	2.2	5
107	2-Phenoxy-3-Trichloromethylquinoxalines Are Antiplasmodial Derivatives with Activity against the Apicoplast of Plasmodium falciparum. Pharmaceuticals, 2021, 14, 724.	3.8	5
108	Influence of Amodiaquine on the Antimalarial Activity of Ellagic Acid: Crystallographic and Biological Studies. Chemical Biology and Drug Design, 2014, 84, 669-675.	3.2	4

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109	Synthesis and Antimalarial Activities of New Hybrid Atokel Molecules. ChemistryOpen, 2022, 11, e202200064.	1.9	4
110	Molecular method for the diagnosis of imported pediatric malaria. MÃ©decine Et Maladies Infectieuses, 2010, 40, 115-118.	5.0	3
111	SAYE: The Story of an Antimalarial Phytomedicine from Burkina Faso. Journal of Alternative and Complementary Medicine, 2015, 21, 187-195.	2.1	3
112	Multiple Phenotypic and Genotypic Artemisinin Sensitivity Evaluation of Malian Plasmodium falciparum Isolates. American Journal of Tropical Medicine and Hygiene, 2018, 98, 1123-1131.	1.4	3
113	In Vitro and In Silico Antimalarial Evaluation of FM-AZ, a New Artemisinin Derivative. Medicines (Basel,) Tj ETQq1 1 0.784314 rgBT /Over	1.4	3
114	Pyranocoumarin and triterpene from Millettia richardiana. Natural Product Communications, 2013, 8, 1099-100.	0.5	3
115	Pyranocoumarin and Triterpene from Millettia Richardiana. Natural Product Communications, 2013, 8, 1934578X1300800.	0.5	2
116	RÃ©sistance de lâ€™agent du paludisme, Plasmodium falciparum aux combinaisons thÃ©rapeutiques Ã base dâ€™artÃ©misinine (ACTs) : Craintes dâ€™une chimiorÃ©sistance gÃ©nÃ©ralisÃ©e. Bulletin De L'Academie Nationale De Medecine, 2016, 200, 477-490.	0.0	2
117	Low polymorphisms in pfact, pfugt and pfcarl genes in African Plasmodium falciparum isolates and absence of association with susceptibility to common anti-malarial drugs. Malaria Journal, 2019, 18, 293.	2.3	1
118	Chloroquine and artemisinin: six decades of research--what next?. IDrugs: the Investigational Drugs Journal, 2003, 6, 674-80.	0.7	1
119	Heme as Trigger and Target of the Antimalarial Peroxide Artemisinin. ACS Symposium Series, 2005, , 281-294.	0.5	0