# David A Fidock

List of Publications by Year
in descending order



| 252 | 25,027 | 6233 80 | 8835 145 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 272 | 272 | 272 | 15650 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mutations in the P. falciparum Digestive Vacuole Transmembrane Protein PfCRT and Evidence for Their Role in Chloroquine Resistance. Molecular Cell, 2000, 6, 861-871. | 4.5 | 1,268 |
| 2 | Spiroindolones, a Potent Compound Class for the Treatment of Malaria. Science, 2010, 329, 1175-1180. | 6.0 | 1,031 |
| 3 | A Molecular Marker for Chloroquine-Resistant Falciparum Malaria. New England Journal of Medicine, 2001, 344, 257-263. | 13.9 | 873 |
| 4 | Antimalarial drug discovery: efficacy models for compound screening. Nature Reviews Drug Discovery, 2004, 3, 509-520. | 21.5 | 633 |
| 5 | Chloroquine Resistance inPlasmodium falciparumMalaria Parasites Conferred bypfcrtMutations. Science, 2002, 298, 210-213. | 6.0 | 624 |
| 6 | K13-propeller mutations confer artemisinin resistance in Plasmodium falciparum clinical isolates. Science, 2015, 347, 428-431. | 6.0 | 563 |
| 7 | Malaria: progress, perils, and prospects for eradication. Journal of Clinical Investigation, 2008, 118, 1266-1276. | 3.9 | 516 |
| 8 | Emergence and clonal expansion of in vitro artemisinin-resistant Plasmodium falciparum kelch13 R561H mutant parasites in Rwanda. Nature Medicine, 2020, 26, 1602-1608. | 15.2 | 459 |
| 9 | Transformation with human dihydrofolate reductase renders malaria parasites insensitive to WR99210 but does not affect the intrinsic activity of proguanil. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 10931-10936. | 3.3 | 457 |
| 10 | A Worldwide Map ofPlasmodium falciparumK13-Propeller Polymorphisms. New England Journal of Medicine, 2016, 374, 2453-2464. | 13.9 | 449 |
| 11 | Artemisinin-based combination therapies: a vital tool in efforts to eliminate malaria. Nature Reviews Microbiology, 2009, 7, 864-874. | 13.6 | 440 |
| 12 | Antimalarial drug resistance: linking Plasmodium falciparum parasite biology to the clinic. Nature Medicine, 2017, 23, 917-928. | 15.2 | 384 |
| 13 | Targeting Plasmodium PI(4)K to eliminate malaria. Nature, 2013, 504, 248-253. | 13.7 | 377 |
| 14 | A novel multiple-stage antimalarial agent that inhibits protein synthesis. Nature, 2015, 522, 315-320. | 13.7 | 353 |
| 15 | Decreasingpfmdr1Copy Number inPlasmodium falciparumMalaria Heightens Susceptibility to Mefloquine, Lumefantrine, Halofantrine, Quinine, and Artemisinin. Journal of Infectious Diseases, 2006, 194, 528-535. | 1.9 | 326 |
| 16 | pfmdr1 mutations contribute to quinine resistance and enhance mefloquine and artemisinin sensitivity in Plasmodium falciparum. Molecular Microbiology, 2005, 57, 913-926. | 1.2 | 309 |
| 17 | Imaging of Plasmodium Liver Stages to Drive Next-Generation Antimalarial Drug Discovery. Science, 2011, 334, 1372-1377. | 6.0 | 308 |
| 18 | A surrogate marker of piperaquine-resistant Plasmodium falciparum malaria: a phenotypeâ€“genotype association study. Lancet Infectious Diseases, The, 2017, 17, 174-183. | 4.6 | 302 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Quantitative assessment of Plasmodium falciparum sexual development reveals potent transmission-blocking activity by methylene blue. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E1214-23. | 3.3 | 293 |
| 20 | The Fatty Acid Biosynthesis Enzyme FabI Plays a Key Role in the Development of Liver-Stage Malarial Parasites. Cell Host and Microbe, 2008, 4, 567-578. | 5.1 | 273 |
| 21 | Artemisinin Action and Resistance in Plasmodium falciparum. Trends in Parasitology, 2016, 32, 682-696. | 1.5 | 271 |
| 22 | A long-duration dihydroorotate dehydrogenase inhibitor (DSM265) for prevention and treatment of malaria. Science Translational Medicine, 2015, 7, 296ra111. | 5.8 | 254 |
| 23 | Targeting the Cell Stress Response of Plasmodium falciparum to Overcome Artemisinin Resistance. PLoS Biology, 2015, 13, e1002132. | 2.6 | 254 |
| 24 | Open Source Drug Discovery with the Malaria Box Compound Collection for Neglected Diseases and Beyond. PLoS Pathogens, 2016, 12, e1005763. | 2.1 | 244 |
| 25 | Targeting Tuberculosis and Malaria through Inhibition of Enoyl Reductase. Journal of Biological Chemistry, 2003, 278, 20851-20859. | 1.6 | 227 |
| 26 | Efficient site-specific integration in Plasmodium falciparum chromosomes mediated by mycobacteriophage Bxb1 integrase. Nature Methods, 2006, 3, 615-621. | 9.0 | 223 |
| 27 | PfCRT and its role in antimalarial drug resistance. Trends in Parasitology, 2012, 28, 504-514. | 1.5 | 223 |
| 28 | Alternative Mutations at Position 76 of the Vacuolar Transmembrane Protein PfCRT Are Associated with Chloroquine Resistance and Unique Stereospecific Quinine and Quinidine Responses inPlasmodium falciparum. Molecular Pharmacology, 2002, 61, 35-42. | 1.0 | 222 |
| 29 | Globally prevalent PfMDR1 mutations modulate Plasmodium falciparum susceptibility to artemisinin-based combination therapies. Nature Communications, 2016, 7, 11553. | 5.8 | 208 |
| 30 | Antimalarial efficacy of MMV390048, an inhibitor of Plasmodium phosphatidylinositol 4-kinase. Science Translational Medicine, 2017, 9, . | 5.8 | 204 |
| 31 | (+)-SJ733, a clinical candidate for malaria that acts through ATP4 to induce rapid host-mediated clearance of Plasmodium. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5455-62. | 3.3 | 199 |
| 32 | Mapping the malaria parasite druggable genome by using in vitro evolution and chemogenomics. Science, 2018, 359, 191-199. | 6.0 | 194 |
| 33 | Mitotic Evolution of Plasmodium falciparum Shows a Stable Core Genome but Recombination in Antigen Families. PLoS Genetics, 2013, 9, e1003293. | 1.5 | 192 |
| 34 | Structural Elucidation of the Specificity of the Antibacterial Agent Triclosan for Malarial Enoyl Acyl Carrier Protein Reductase. Journal of Biological Chemistry, 2002, 277, 13106-13114. | 1.6 | 184 |
| 35 | In Vivo Selection ofPlasmodium falciparumParasites Carrying the Chloroquine-SusceptiblepfcrtK76 Allele after Treatment with Artemether-Lumefantrine in Africa. Journal of Infectious Diseases, 2009, 199, 750-757. | 1.9 | 183 |
| 36 | Emerging Southeast Asian PfCRT mutations confer Plasmodium falciparum resistance to the first-line antimalarial piperaquine. Nature Communications, 2018, 9, 3314. | 5.8 | 183 |

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|---|---|---|---|
| 37 | Evidence for Different Mechanisms of Chloroquine Resistance in 2PlasmodiumSpecies That Cause Human Malaria. Journal of Infectious Diseases, 2001, 183, 1653-1661. | 1.9 | 175 |
| 38 | Evolution of a unique Plasmodium falciparum chloroquine-resistance phenotype in association with pfcrt polymorphism in Papua New Guinea and South America. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 12689-12694. | 3.3 | 169 |
| 39 | A critical role for PfCRT K76T in Plasmodium falciparum verapamil-reversible chloroquine resistance. EMBO Journal, 2005, 24, 2294-2305. | 3.5 | 168 |
| 40 | Transporters involved in resistance to antimalarial drugs. Trends in Pharmacological Sciences, 2006, 27, 594-601. | 4.0 | 166 |
| 41 | Gene encoding a deubiquitinating enzyme is mutated in artesunate- and chloroquine-resistant rodent malaria parasites. Molecular Microbiology, 2007, 65, 27-40. | 1.2 | 159 |
| 42 | Evidence for a Central Role for PfCRT in Conferring Plasmodium falciparum Resistance to Diverse Antimalarial Agents. Molecular Cell, 2004, 15, 867-877. | 4.5 | 157 |
| 43 | Identification of conserved antigenic components for a cytotoxic T lymphocyte-inducing vaccine against malaria. Lancet, The, 1995, 345, 1003-1007. | 6.3 | 154 |
| 44 | Cycloguanil and Its Parent Compound Proguanil Demonstrate Distinct Activities againstPlasmodium falciparumMalaria Parasites Transformed with Human Dihydrofolate Reductase. Molecular Pharmacology, 1998, 54, 1140-1147. | 1.0 | 154 |
| 45 | Defining the role of PfCRT in Plasmodium falciparum chloroquine resistance. Molecular Microbiology, 2005, 56, 323-333. | 1.2 | 154 |
| 46 | Site-specific genome editing in Plasmodium falciparum using engineered zinc-finger nucleases. Nature Methods, 2012, 9, 993-998. | 9.0 | 149 |
| 47 | Profiling the Essential Nature of Lipid Metabolism in Asexual Blood and Gametocyte Stages of Plasmodium falciparum. Cell Host and Microbe, 2015, 18, 371-381. | 5.1 | 144 |
| 48 | In Vitro Efficacy, Resistance Selection, and Structural Modeling Studies Implicate the Malarial Parasite Apicoplast as the Target of Azithromycin. Journal of Biological Chemistry, 2007, 282, 2494-2504. | 1.6 | 131 |
| 49 | Chemical Genomic Profiling for Antimalarial Therapies, Response Signatures, and Molecular Targets. Science, 2011, 333, 724-729. | 6.0 | 130 |
| 50 | Select pyrimidinones inhibit the propagation of the malarial parasite, Plasmodium falciparum. Bioorganic and Medicinal Chemistry, 2009, 17, 1527-1533. | 1.4 | 128 |
| 51 | Structure and drug resistance of the Plasmodium falciparum transporter PfCRT. Nature, 2019, 576, 315-320. | 13.7 | 123 |
| 52 | Molecular Mechanisms of Drug Resistance in Plasmodium falciparum Malaria. Annual Review of Microbiology, 2020, 74, 431-454. | 2.9 | 123 |
| 53 | KAF156 Is an Antimalarial Clinical Candidate with Potential for Use in Prophylaxis, Treatment, and Prevention of Disease Transmission. Antimicrobial Agents and Chemotherapy, 2014, 58, 5060-5067. | 1.4 | 122 |
| 54 | Genetic linkage of pfmdr1 with food vacuolar solute import in Plasmodium falciparum. EMBO Journal, 2006, 25, 3000-3011. | 3.5 | 121 |

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| 55 | Use of high-density tiling microarrays to identify mutations globally and elucidate mechanisms of drug resistance in Plasmodium falciparum. Genome Biology, 2009, 10, R21. | 13.9 | 120 |
| 56 | Drug resistance-associated pfCRT mutations confer decreased Plasmodium falciparum digestive vacuolar pH. Molecular and Biochemical Parasitology, 2004, 133, 99-114. | 0.5 | 119 |
| 57 | Genetic Disruption of the Plasmodium falciparum Digestive Vacuole Plasmepsins Demonstrates Their Functional Redundancy. Journal of Biological Chemistry, 2004, 279, 54088-54096. | 1.6 | 116 |
| 58 | Type II Fatty Acid Biosynthesis Is Essential for Plasmodium falciparum Sporozoite Development in the Midgut of Anopheles Mosquitoes. Eukaryotic Cell, 2014, 13, 550-559. | 3.4 | 116 |
| 59 | Supergenomic Network Compression and the Discovery of EXP1 as a Glutathione Transferase Inhibited by Artesunate. Cell, 2014, 158, 916-928. | 13.5 | 113 |
| 60 | A potent antimalarial benzoxaborole targets a Plasmodium falciparum cleavage and polyadenylation specificity factor homologue. Nature Communications, 2017, 8, 14574. | 5.8 | 110 |
| 61 | The chitinase PfCHT1 from the human malaria parasite Plasmodium falciparum lacks proenzyme and chitin-binding domains and displays unique substrate preferences. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 14061-14066. | 3.3 | 108 |
| 62 | Safety, tolerability, pharmacokinetics, and activity of the novel long-acting antimalarial DSM265: a two-part first-in-human phase 1a/1b randomised study. Lancet Infectious Diseases, The, 2017, 17, 626-635. | 4.6 | 108 |
| 63 | Developmental arrest of the human malaria parasite Plasmodium falciparum within the mosquito midgut via CTRP gene disruption. Molecular Microbiology, 2000, 36, 1-9. | 1.2 | 107 |
| 64 | Antimalarial activity of single-dose DSM265, a novel plasmodium dihydroorotate dehydrogenase inhibitor, in patients with uncomplicated Plasmodium falciparum or Plasmodium vivax malaria infection: a proof-of-concept, open-label, phase 2a study. Lancet Infectious Diseases, The, 2018, 18, 874-883. | 4.6 | 106 |
| 65 | Priming the antimalarial pipeline. Nature, 2010, 465, 297-298. | 13.7 | 104 |
| 66 | Chloroquine Resistance Modulated in Vitro by Expression Levels of the Plasmodium falciparum Chloroquine Resistance Transporter. Journal of Biological Chemistry, 2003, 278, 33593-33601. | 1.6 | 103 |
| 67 | Plasmodium falciparum K13 Mutations Differentially Impact Ozonide Susceptibility and Parasite Fitness In Vitro. MBio, 2017, 8, . | 1.8 | 103 |
| 68 | Disruption of Plasmodium falciparum Chitinase Markedly Impairs Parasite Invasion of Mosquito Midgut. Infection and Immunity, 2001, 69, 4048-4054. | 1.0 | 102 |
| 69 | Recent clinical and molecular insights into emerging artemisinin resistance in Plasmodium falciparum. Current Opinion in Infectious Diseases, 2011, 24, 570-577. | 1.3 | 102 |
| 70 | Piperaquine Resistance Is Associated with a Copy Number Variation on Chromosome 5 in Drug-Pressured Plasmodium falciparum Parasites. Antimicrobial Agents and Chemotherapy, 2011, 55, 3908-3916. | 1.4 | 102 |
| 71 | Identification of MMV Malaria Box Inhibitors of Plasmodium falciparum Early-Stage Gametocytes Using a Luciferase-Based High-Throughput Assay. Antimicrobial Agents and Chemotherapy, 2013, 57, 6050-6062. | 1.4 | 102 |
| 72 | UDP-galactose and acetyl-CoA transporters as Plasmodium multidrug resistance genes. Nature Microbiology, 2016, 1, 16166. | 5.9 | 102 |

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| 73 | Association of a Novel Mutation in the Plasmodium falciparum Chloroquine Resistance Transporter With Decreased Piperaquine Sensitivity. Journal of Infectious Diseases, 2017, 216, 468-476. | 1.9 | 102 |
| 74 | Local emergence in Amazonia of Plasmodium falciparum k13 C580Y mutants associated with in vitro artemisinin resistance. ELife, 2020, 9, . | 2.8 | 102 |
| 75 | Adaptive evolution of malaria parasites in French Guiana: Reversal of chloroquine resistance by acquisition of a mutation in pfcrt. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11672-11677. | 3.3 | 101 |
| 76 | Open-source discovery of chemical leads for next-generation chemoprotective antimalarials. Science, 2018, 362, . | 6.0 | 99 |
| 77 | Plasmodium falciparum liver stage antigen-1 is well conserved and contains potent B and T cell determinants. Journal of Immunology, 1994, 153, 190-204. | 0.4 | 98 |
| 78 | A broad analysis of resistance development in the malaria parasite. Nature Communications, 2016, 7, 11901. | 5.8 | 94 |
| 79 | The selectable marker human dihydrofolate reductase enables sequential genetic manipulation of the Plasmodium berghei genome. Molecular and Biochemical Parasitology, 2000, 106, 199-212. | 0.5 | 92 |
| 80 | Advances in understanding the genetic basis of antimalarial drug resistance. Current Opinion in Microbiology, 2007, 10, 363-370. | 2.3 | 92 |
| 81 | DNA Repair Mechanisms and Their Biological Roles in the Malaria Parasite Plasmodium falciparum. Microbiology and Molecular Biology Reviews, 2014, 78, 469-486. | 2.9 | 88 |
| 82 | PfCRT and the trans-vacuolar proton electrochemical gradient: regulating the access of chloroquine to ferriprotoporphyrin IX. Molecular Microbiology, 2006, 62, 238-251. | 1.2 | 85 |
| 83 | Elucidating Mechanisms of Drug-Resistant Plasmodium falciparum. Cell Host and Microbe, 2019, 26, 35-47. | 5.1 | 85 |
| 84 | Plasmodium falciparum K13 mutations in Africa and Asia impact artemisinin resistance and parasite fitness. ELife, 2021, 10, . | 2.8 | 85 |
| 85 | A Variant PfCRT Isoform Can Contribute to Plasmodium falciparum Resistance to the First-Line Partner Drug Piperaquine. MBio, 2017, 8, . | 1.8 | 82 |
| 86 | Changes in genome organization of parasite-specific gene families during the Plasmodium transmission stages. Nature Communications, 2018, 9, 1910. | 5.8 | 82 |
| 87 | Artemisinin-resistant K13 mutations rewire Plasmodium falciparumâ€™s intra-erythrocytic metabolic program to enhance survival. Nature Communications, 2021, 12, 530. | 5.8 | 82 |
| 88 | Evidence for a pfcrt-Associated Chloroquine Efflux System in the Human Malarial Parasite Plasmodium falciparum. Biochemistry, 2005, 44, 9862-9870. | 1.2 | 80 |
| 89 | Recent highlights in antimalarial drug resistance and chemotherapy research. Trends in Parasitology, 2008, 24, 537-544. | 1.5 | 80 |
| 90 | Identifying apicoplastâ€targeting antimalarials using highâ€throughput compatible approaches. FASEB Journal, 2011, 25, 3583-3593. | 0.2 | 80 |

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| 91 | Artemisia annua L. extracts inhibit the in vitro replication of SARS-CoV-2 and two of its variants. Journal of Ethnopharmacology, 2021, 274, 114016. | 2.0 | 80 |
| 92 | Identification of a Mutant PfCRT-Mediated Chloroquine Tolerance Phenotype in Plasmodium falciparum. PLoS Pathogens, 2010, 6, e1000887. | 2.1 | 79 |
| 93 | Allelic modifications of the cg2 and cg1 genes do not alter the chloroquine response of drug-resistant Plasmodium falciparum. Molecular and Biochemical Parasitology, 2000, 110, 1-10. | 0.5 | 77 |
| 94 | Role of Plasmodium falciparum Digestive Vacuole Plasmepsins in the Specificity and Antimalarial Mode of Action of Cysteine and Aspartic Protease Inhibitors. Antimicrobial Agents and Chemotherapy, 2009, 53, 4968-4978. | 1.4 | 77 |
| 95 | Cloning and characterization of a novel Plasmodium falciparum sporozoite surface antigen, STARP. Molecular and Biochemical Parasitology, 1994, 64, 219-232. | 0.5 | 74 |
| 96 | In vitro evaluations of antimalarial drugs and their relevance to clinical outcomes. International Journal for Parasitology, 2008, 38, 743-747. | 1.3 | 74 |
| 97 | Disruption of a Plasmodium falciparum gene linked to male sexual development causes early arrest in gametocytogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16813-16818. | 3.3 | 73 |
| 98 | Synthesis, biological activity, and X-ray crystal structural analysis of diaryl ether inhibitors of malarial enoyl acyl carrier protein reductase. Part 1: 4â€²-Substituted triclosan derivatives. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 5247-5252. | 1.0 | 69 |
| 99 | Spatial and temporal mapping of the PfEMP1 export pathway inPlasmodium falciparum. Cellular Microbiology, 2013, 15, 1401-1418. | 1.1 | 69 |
| 100 | Comparative 3D genome organization in apicomplexan parasites. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3183-3192. | 3.3 | 65 |
| 101 | Probing the multifactorial basis of Plasmodium falciparum quinine resistance: Evidence for a strain-specific contribution of the sodium-proton exchanger PfNHE. Molecular and Biochemical Parasitology, 2009, 165, 122-131. | 0.5 | 64 |
| 102 | Plasmodium falciparum phosphoethanolamine methyltransferase is essential for malaria transmission. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18262-18267. | 3.3 | 63 |
| 103 | Luciferase-Based, High-Throughput Assay for Screening and Profiling Transmission-Blocking Compounds against Plasmodium falciparum Gametocytes. Antimicrobial Agents and Chemotherapy, 2016, 60, 2097-2107. | 1.4 | 62 |
| 104 | Subtle Changes in Endochin-Like Quinolone Structure Alter the Site of Inhibition within the Cytochrome bc <sub>1</sub> Complex of Plasmodium falciparum. Antimicrobial Agents and Chemotherapy, 2015, 59, 1977-1982. | 1.4 | 61 |
| 105 | Insights into the intracellular localization, protein associations and artemisinin resistance properties of Plasmodium falciparumÂK13. PLoS Pathogens, 2020, 16, e1008482. | 2.1 | 60 |
| 106 | X-ray Structural Analysis of Plasmodium falciparum Enoyl Acyl Carrier Protein Reductase as a Pathway toward the Optimization of Triclosan Antimalarial Efficacy. Journal of Biological Chemistry, 2007, 282, 25436-25444. | 1.6 | 59 |
| 107 | Genetic mapping of targets mediating differential chemical phenotypes in Plasmodium falciparum. Nature Chemical Biology, 2009, 5, 765-771. | 3.9 | 59 |
| 108 | Using Genetic Methods To Define the Targets of Compounds with Antimalarial Activity. Journal of Medicinal Chemistry, 2013, 56, 7761-7771. | 2.9 | 59 |

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| 109 | Malaria's Missing Number: Calculating the Human Component of R0 by a Within-Host Mechanistic Model of Plasmodium falciparum Infection and Transmission. PLoS Computational Biology, 2013, 9, e1003025. | 1.5 | 59 |
| 110 | Mutations in the Plasmodium falciparum chloroquine resistance transporter, PfCRT, enlarge the parasiteâ€™s food vacuole and alter drug sensitivities. Scientific Reports, 2015, 5, 14552. | 1.6 | 59 |
| 111 | Anti-PfGARP activates programmed cell death of parasites and reduces severe malaria. Nature, 2020, 582, 104-108. | 13.7 | 59 |
| 112 | Covalent Plasmodium falciparum-selective proteasome inhibitors exhibit a low propensity for generating resistance in vitro and synergize with multiple antimalarial agents. PLoS Pathogens, 2019, 15, e1007722. | 2.1 | 58 |
| 113 | Plasmodium falciparum sporozoite invasion is inhibited by naturally acquired or experimentally induced polyclonal antibodies to the STARP antigen. European Journal of Immunology, 1997, 27, 2502-2513. | 1.6 | 56 |
| 114 | CRISPRâ€Cas9â€modified pfmdr1 protects Plasmodium falciparum asexual blood stages and gametocytes against a class of piperazineâ€containing compounds but potentiates artemisininâ€based combination therapy partner drugs. Molecular Microbiology, 2016, 101, 381-393. | 1.2 | 56 |
| 115 | Inhibition of Resistance-Refractory P. falciparum Kinase PKG Delivers Prophylactic, Blood Stage, and Transmission-Blocking Antiplasmodial Activity. Cell Chemical Biology, 2020, 27, 806-816.e8. | 2.5 | 56 |
| 116 | Triaminopyrimidine is a fast-killing and long-acting antimalarial clinical candidate. Nature Communications, 2015, 6, 6715. | 5.8 | 55 |
| 117 | Differences in trans-stimulated chloroquine efflux kinetics are linked to PfCRT in Plasmodium falciparum. Molecular Microbiology, 2007, 64, 407-420. | 1.2 | 54 |
| 118 | Effects on growth, hemoglobin metabolism and paralogous gene expression resulting from disruption of genes encoding the digestive vacuole plasmepsins of Plasmodium falciparum. International Journal for Parasitology, 2007, 37, 317-327. | 1.3 | 54 |
| 119 | How can we identify parasite genes that underlie antimalarial drug resistance?. Pharmacogenomics, 2011, 12, 59-85. | 0.6 | 54 |
| 120 | Multicolor Bioluminescence Boosts Malaria Research: Quantitative Dual-Color Assay and Single-Cell Imaging in Plasmodium falciparum Parasites. Analytical Chemistry, 2014, 86, 8814-8821. | 3.2 | 54 |
| 121 | Defining the Determinants of Specificity of Plasmodium Proteasome Inhibitors. Journal of the American Chemical Society, 2018, 140, 11424-11437. | 6.6 | 54 |
| 122 | Combining Stage Specificity and Metabolomic Profiling to Advance Antimalarial Drug Discovery. Cell Chemical Biology, 2020, 27, 158-171.e3. | 2.5 | 54 |
| 123 | Assessing risks of Plasmodium falciparum resistance to select next-generation antimalarials. Trends in Parasitology, 2021, 37, 709-721. | 1.5 | 53 |
| 124 | Synthesis and biological activity of diaryl ether inhibitors of malarial enoyl acyl carrier protein reductase. Part 2: 2â€²-Substituted triclosan derivatives. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 2163-2169. | 1.0 | 52 |
| 125 | Investigations into the Role of the Plasmodium falciparum SERCA (PfATP6) L263E Mutation in Artemisinin Action and Resistance. Antimicrobial Agents and Chemotherapy, 2010, 54, 3842-3852. | 1.4 | 52 |
| 126 | Diversity-Oriented Synthesis Yields a Novel Lead for the Treatment of Malaria. ACS Medicinal Chemistry Letters, 2012, 3, 112-117. | 1.3 | 52 |

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| 127 | Combinatorial Genetic Modeling ofpfcrt-Mediated Drug Resistance Evolution inPlasmodium falciparum. Molecular Biology and Evolution, 2016, 33, 1554-1570. | 3.5 | 51 |
| 128 | A tetraoxane-based antimalarial drug candidate that overcomes PfK13-C580Y dependent artemisinin resistance. Nature Communications, 2017, 8, 15159. | 5.8 | 51 |
| 129 | MalDA, Accelerating Malaria Drug Discovery. Trends in Parasitology, 2021, 37, 493-507. | 1.5 | 51 |
| 130 | A Method for Rapid Genetic Integration into Plasmodium falciparum Utilizing Mycobacteriophage Bxb1 Integrase. Methods in Molecular Biology, 2010, 634, 87-100. | 0.4 | 50 |
| 131 | Plasmodium falciparum Sec24 marks transitional ER that exports a model cargo via a diacidic motif. Molecular Microbiology, 2008, 68, 1535-1546. | 1.2 | 49 |
| 132 | The Antimalarial Natural Product Salinipostin A Identifies Essential Î±/Î² Serine Hydrolases Involved in Lipid Metabolism in P.Âfalciparum Parasites. Cell Chemical Biology, 2020, 27, 143-157.e5. | 2.5 | 48 |
| 133 | Disruption of the C-terminal region of EBA-175 in the Dd2/Nm clone of Plasmodium falciparum does not affect erythrocyte invasion. Molecular and Biochemical Parasitology, 2000, 110, 135-146. | 0.5 | 47 |
| 134 | Transfusion of stored blood impairs host defenses against <scp>G</scp>ramâ€negative pathogens in mice. Transfusion, 2014, 54, 2842-2851. | 0.8 | 47 |
| 135 | Balancing drug resistance and growth rates via compensatory mutations in the <scp>P</scp>lasmodium falciparum chloroquine resistance transporter. Molecular Microbiology, 2015, 97, 381-395. | 1.2 | 47 |
| 136 | Hexahydroquinolines are antimalarial candidates with potent blood-stage and transmission-blocking activity. Nature Microbiology, 2017, 2, 1403-1414. | 5.9 | 47 |
| 137 | Parasiteâ€induced <scp>ER</scp> stress response in hepatocytes facilitates Plasmodium liver stage infection. EMBO Reports, 2015, 16, 955-964. | 2.0 | 46 |
| 138 | Protein Degradation Systems as Antimalarial Therapeutic Targets. Trends in Parasitology, 2017, 33, 731-743. | 1.5 | 46 |
| 139 | Artemisinin resistance phenotypes and K13 inheritance in a Plasmodium falciparum cross and Aotus model. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12513-12518. | 3.3 | 46 |
| 140 | Plasmodium falciparum resistance to piperaquine driven by PfCRT. Lancet Infectious Diseases, The, 2019, 19, 1168-1169. | 4.6 | 46 |
| 141 | Modeling Within-Host Effects of Drugs on Plasmodium falciparum Transmission and Prospects for Malaria Elimination. PLoS Computational Biology, 2014, 10, e1003434. | 1.5 | 45 |
| 142 | Conservation of a novel vacuolar transporter in Plasmodium species and its central role in chloroquine resistance of P. falciparum. Current Opinion in Microbiology, 2001, 4, 415-420. | 2.3 | 44 |
| 143 | Identification and Mechanistic Understanding of Dihydroorotate Dehydrogenase Point Mutations in Plasmodium falciparum that Confer in Vitro Resistance to the Clinical Candidate DSM265. ACS Infectious Diseases, 2019, 5, 90-101. | 1.8 | 43 |
| 144 | Characterization of the ATG8-conjugation system in 2Plasmodiumspecies with special focus on the liver stage. Autophagy, 2014, 10, 269-284. | 4.3 | 42 |

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| 145 | The Mu Subunit of Plasmodium falciparum Clathrin-Associated Adaptor Protein 2 Modulates In Vitro Parasite Response to Artemisinin and Quinine. Antimicrobial Agents and Chemotherapy, 2015, 59, 2540-2547. | 1.4 | 42 |
| 146 | Origin of Robustness in Generating Drug-Resistant Malaria Parasites. Molecular Biology and Evolution, 2014, 31, 1649-1660. | 3.5 | 41 |
| 147 | UCT943, a Next-Generation Plasmodium falciparum PI4K Inhibitor Preclinical Candidate for the Treatment of Malaria. Antimicrobial Agents and Chemotherapy, 2018, 62, . | 1.4 | 40 |
| 148 | Discovery of novel inhibitors targeting enoylâ€“acyl carrier protein reductase in Plasmodium falciparum by structure-based virtual screening. Biochemical and Biophysical Research Communications, 2007, 358, 686-691. | 1.0 | 39 |
| 149 | Chemogenomics identifies acetyl-coenzyme A synthetase as a target for malaria treatment and prevention. Cell Chemical Biology, 2022, 29, 191-201.e8. | 2.5 | 39 |
| 150 | Characterization of a PRL protein tyrosine phosphatase from Plasmodium falciparumâ˜†. Molecular and Biochemical Parasitology, 2008, 158, 1-10. | 0.5 | 37 |
| 151 | In Vivo and In Vitro Antimalarial Properties of Azithromycin-Chloroquine Combinations That Include the Resistance Reversal Agent Amlodipine. Antimicrobial Agents and Chemotherapy, 2011, 55, 3115-3124. | 1.4 | 37 |
| 152 | Degrees of chloroquine resistance in Plasmodium â€“ Is the redox system involved?. International Journal for Parasitology: Drugs and Drug Resistance, 2012, 2, 47-57. | 1.4 | 37 |
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