

# Akhil B Vaidya

## List of Publications by Year in descending order

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83  
papers

10,530  
citations

66234

42  
h-index

64668

79  
g-index

90  
all docs

90  
docs citations

90  
times ranked

8218  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome sequence of the human malaria parasite <i>Plasmodium falciparum</i> . <i>Nature</i> , 2002, 419, 498-511.	13.7	3,881
2	Genome sequence and comparative analysis of the model rodent malaria parasite <i>Plasmodium yoelii yoelii</i> . <i>Nature</i> , 2002, 419, 512-519.	13.7	666
3	Functional Profiling of a <i>Plasmodium</i> Genome Reveals an Abundance of Essential Genes. <i>Cell</i> , 2017, 170, 260-272.e8.	13.5	471
4	Specific role of mitochondrial electron transport in blood-stage <i>Plasmodium falciparum</i> . <i>Nature</i> , 2007, 446, 88-91.	13.7	441
5	Atovaquone, a Broad Spectrum Antiparasitic Drug, Collapses Mitochondrial Membrane Potential in a Malarial Parasite. <i>Journal of Biological Chemistry</i> , 1997, 272, 3961-3966.	1.6	346
6	Resistance mutations reveal the atovaquone-binding domain of cytochrome b in malaria parasites. <i>Molecular Microbiology</i> , 1999, 33, 704-711.	1.2	291
7	Host-Parasite Interactions Revealed by <i>Plasmodium falciparum</i> Metabolomics. <i>Cell Host and Microbe</i> , 2009, 5, 191-199.	5.1	290
8	A Mechanism for the Synergistic Antimalarial Action of Atovaquone and Proguanil. <i>Antimicrobial Agents and Chemotherapy</i> , 1999, 43, 1334-1339.	1.4	247
9	Mitochondrial Evolution and Functions in Malaria Parasites. <i>Annual Review of Microbiology</i> , 2009, 63, 249-267.	2.9	207
10	Quinolone-3-Diarylethers: A New Class of Antimalarial Drug. <i>Science Translational Medicine</i> , 2013, 5, 177ra37.	5.8	187
11	Sequences similar to genes for two mitochondrial proteins and portions of ribosomal RNA in tandemly arrayed 6-kilobase-pair DNA of a malarial parasite. <i>Molecular and Biochemical Parasitology</i> , 1989, 35, 97-107.	0.5	165
12	Mammary Tumor Viruses. <i>Advances in Cancer Research</i> , 1979, 29, 347-418.	1.9	143
13	Genetic Investigation of Tricarboxylic Acid Metabolism during the <i>Plasmodium falciparum</i> Life Cycle. <i>Cell Reports</i> , 2015, 11, 164-174.	2.9	134
14	The Heme Biosynthesis Pathway Is Essential for <i>Plasmodium falciparum</i> Development in Mosquito Stage but Not in Blood Stages. <i>Journal of Biological Chemistry</i> , 2014, 289, 34827-34837.	1.6	133
15	Structural features of <i>Plasmodium</i> cytochrome b that may underlie susceptibility to 8-aminoquinolines and hydroxynaphthoquinones. <i>Molecular and Biochemical Parasitology</i> , 1993, 58, 33-42.	0.5	116
16	Branched tricarboxylic acid metabolism in <i>Plasmodium falciparum</i> . <i>Nature</i> , 2010, 466, 774-778.	13.7	111
17	Pyrazoleamide compounds are potent antimalarials that target Na <sup>+</sup> homeostasis in intraerythrocytic <i>Plasmodium falciparum</i> . <i>Nature Communications</i> , 2014, 5, 5521.	5.8	108
18	The metabolic roles of the endosymbiotic organelles of <i>Toxoplasma</i> and <i>Plasmodium</i> spp.. <i>Current Opinion in Microbiology</i> , 2013, 16, 452-458.	2.3	102

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19	Mitochondrial Drug Targets in Apicomplexan Parasites. <i>Current Drug Targets</i> , 2007, 8, 49-60.	1.0	100
20	Discovery, Synthesis, and Optimization of Antimalarial 4(1 <i>H</i> )-Quinolone-3-Diarylethers. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 3818-3834.	2.9	100
21	A member of a conserved Plasmodium protein family with membrane-attack complex/perforin (MACPF)-like domains localizes to the micronemes of sporozoites. <i>Molecular and Biochemical Parasitology</i> , 2004, 133, 15-26.	0.5	94
22	Yeast dihydroorotate dehydrogenase as a new selectable marker for Plasmodium falciparum transfection. <i>Molecular and Biochemical Parasitology</i> , 2011, 177, 29-34.	0.5	94
23	Tandemly arranged gene clusters of malarial parasites that are highly conserved and transcribed. <i>Molecular and Biochemical Parasitology</i> , 1987, 22, 249-257.	0.5	86
24	A Chemical Genomic Analysis of Decoquinatate, a Plasmodium falciparum Cytochrome <i>b</i> Inhibitor. <i>ACS Chemical Biology</i> , 2011, 6, 1214-1222.	1.6	84
25	Uncovering the Molecular Mode of Action of the Antimalarial Drug Atovaquone Using a Bacterial System. <i>Journal of Biological Chemistry</i> , 2005, 280, 27458-27465.	1.6	83
26	Two classes of plant-like vacuolar-type H <sup>+</sup> -pyrophosphatases in malaria parasites. <i>Molecular and Biochemical Parasitology</i> , 2001, 114, 183-195.	0.5	77
27	Disruption of a Plasmodium falciparum gene linked to male sexual development causes early arrest in gametocytogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16813-16818.	3.3	73
28	Highly Divergent Mitochondrial ATP Synthase Complexes in Tetrahymena thermophila. <i>PLoS Biology</i> , 2010, 8, e1000418.	2.6	72
29	Atovaquone resistance in malaria parasites. <i>Drug Resistance Updates</i> , 2000, 3, 283-287.	6.5	69
30	ATP Synthase Complex of Plasmodium falciparum. <i>Journal of Biological Chemistry</i> , 2011, 286, 41312-41322.	1.6	69
31	Structure of the MTIP-MyoA complex, a key component of the malaria parasite invasion motor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 4852-4857.	3.3	67
32	ELQ-300 Prodrugs for Enhanced Delivery and Single-Dose Cure of Malaria. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 5555-5560.	1.4	62
33	Subtle Changes in Endochin-Like Quinolone Structure Alter the Site of Inhibition within the Cytochrome <i>b</i> <sub>1</sub> Complex of Plasmodium falciparum. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 1977-1982.	1.4	61
34	Homology between human breast tumour RNA and mouse mammary tumour virus genome. <i>Nature</i> , 1974, 249, 565-567.	18.7	60
35	Variation among Plasmodium falciparum Strains in Their Reliance on Mitochondrial Electron Transport Chain Function. <i>Eukaryotic Cell</i> , 2011, 10, 1053-1061.	3.4	59
36	Mitochondrial Electron Transport Inhibition and Viability of Intraerythrocytic Plasmodium falciparum. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 5281-5287.	1.4	53

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37	Plasmodium Niemann-Pick type C1-related protein is a druggable target required for parasite membrane homeostasis. <i>ELife</i> , 2019, 8, .	2.8	51
38	Vacuolar type H <sup>+</sup> pumping pyrophosphatases of parasitic protozoa. <i>International Journal for Parasitology</i> , 2002, 32, 1-14.	1.3	50
39	Atovaquone and ELQ-300 Combination Therapy as a Novel Dual-Site Cytochrome <i>bc</i> 1 Inhibition Strategy for Malaria. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 4853-4859.	1.4	50
40	The mitochondrial ribosomal protein L13 is critical for the structural and functional integrity of the mitochondrion in <i>Plasmodium falciparum</i> . <i>Journal of Biological Chemistry</i> , 2018, 293, 8128-8137.	1.6	50
41	Structure-based Design of Novel Small-Molecule Inhibitors of <i>Plasmodium falciparum</i> . <i>Journal of Chemical Information and Modeling</i> , 2010, 50, 840-849.	2.5	49
42	A genetic locus on <i>Plasmodium falciparum</i> chromosome 12 linked to a defect in mosquito-infectivity and male gametogenesis. <i>Molecular and Biochemical Parasitology</i> , 1995, 69, 65-71.	0.5	48
43	Mitochondria in malaria and related parasites: ancient, diverse and streamlined. <i>Journal of Bioenergetics and Biomembranes</i> , 2008, 40, 425-33.	1.0	47
44	Isolation and Characterization of RNA-Directed DNA Polymerase from a B-Type RNA Tumor Virus. <i>Journal of Virology</i> , 1974, 14, 40-46.	1.5	46
45	Molecular cloning and partial sequence of a 5.8 kilobase pair repetitive DNA from <i>Plasmodium falciparum</i> . <i>Molecular and Biochemical Parasitology</i> , 1988, 30, 289-290.	0.5	42
46	Divergent evolutionary constraints on mitochondrial and nuclear genomes of malaria parasites. <i>Molecular and Biochemical Parasitology</i> , 1998, 95, 69-80.	0.5	42
47	Na <sup>+</sup> Influx Induced by New Antimalarials Causes Rapid Alterations in the Cholesterol Content and Morphology of <i>Plasmodium falciparum</i> . <i>PLoS Pathogens</i> , 2016, 12, e1005647.	2.1	40
48	Alkoxy carbonate Ester Prodrugs of Preclinical Drug Candidate ELQ-300 for Prophylaxis and Treatment of Malaria. <i>ACS Infectious Diseases</i> , 2017, 3, 728-735.	1.8	38
49	Antibodies against Ribosomal Phosphoprotein PO of <i>Plasmodium falciparum</i> Protect Mice against Challenge with <i>Plasmodium yoelii</i> . <i>Infection and Immunity</i> , 2000, 68, 4312-4318.	1.0	36
50	A Multigene Family That Interacts with the Amino Terminus of <i>Plasmodium</i> MSP-1 Identified Using the Yeast Two-Hybrid System. <i>Eukaryotic Cell</i> , 2002, 1, 915-925.	3.4	36
51	In Vitro Susceptibility of Mink Lung Cells to the Mouse Mammary Tumor Virus2. <i>Journal of the National Cancer Institute</i> , 1976, 57, 447-449.	3.0	34
52	The Antimalarial Activities of Methylene Blue and the 1,4-Naphthoquinone 3-[4-(Trifluoromethyl)Benzyl]-Menadione Are Not Due to Inhibition of the Mitochondrial Electron Transport Chain. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 2114-2120.	1.4	34
53	Inhibition of Cytochrome <i>bc</i> 1 as a Strategy for Single-Dose, Multi-Stage Antimalarial Therapy. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 92, 1195-1201.	0.6	34
54	Mitochondrial and Plastid Functions as Antimalarial Drug Targets. <i>Current Drug Targets Infectious Disorders</i> , 2004, 4, 11-23.	2.1	33

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55	Mitochondrial type II NADH dehydrogenase of <i>Plasmodium falciparum</i> (PfNDH2) is dispensable in the asexual blood stages. <i>PLoS ONE</i> , 2019, 14, e0214023.	1.1	29
56	Mycoplasmal infection of lymphocyte cell cultures: Infection with <i>M. salivarium</i> . <i>In Vitro</i> , 1980, 16, 346-356.	1.2	28
57	Hemozoin-free <i>Plasmodium falciparum</i> mitochondria for physiological and drug susceptibility studies. <i>Molecular and Biochemical Parasitology</i> , 2010, 174, 150-153.	0.5	27
58	The validity of mitochondrial dehydrogenases as antimalarial drug targets. <i>Trends in Parasitology</i> , 2008, 24, 8-9.	1.5	25
59	Complex inheritance of the plasmodial surface anion channel in a <i>Plasmodium falciparum</i> genetic cross. <i>Molecular Microbiology</i> , 2009, 72, 459-469.	1.2	24
60	Maduramicin Rapidly Eliminates Malaria Parasites and Potentiates the Gametocytocidal Activity of the Pyrazoleamide PA21A050. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 1492-1499.	1.4	23
61	<i>Plasmodium vivax</i> Malaria in Spite of Atovaquone/Proguanil (Malarone) Prophylaxis. <i>Journal of Travel Medicine</i> , 2006, 10, 353-355.	1.4	22
62	Alteration in Host Cell Tropism Limits the Efficacy of Immunization with a Surface Protein of Malaria Merozoites. <i>Infection and Immunity</i> , 2005, 73, 6363-6371.	1.0	21
63	Host Erythrocyte Environment Influences the Localization of Exported Protein 2, an Essential Component of the <i>Plasmodium</i> Translocon. <i>Eukaryotic Cell</i> , 2015, 14, 371-384.	3.4	18
64	Diverse Chemical Compounds Target <i>Plasmodium falciparum</i> Plasma Membrane Lipid Homeostasis. <i>ACS Infectious Diseases</i> , 2019, 5, 550-558.	1.8	16
65	Caged Garcinia Xanthenes, a Novel Chemical Scaffold with Potent Antimalarial Activity. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	1.4	15
66	<i>Plasmodium falciparum</i> : Import of a Phosphate Carrier Protein into Heterologous Mitochondria. <i>Experimental Parasitology</i> , 1998, 88, 252-254.	0.5	14
67	Molecular clones of $\beta$ -tubulin genes of <i>Plasmodium yoelii</i> reveal an unusual feature of the carboxy terminus. <i>Molecular and Biochemical Parasitology</i> , 1988, 30, 165-174.	0.5	12
68	Mitochondrial RNA polymerase is an essential enzyme in erythrocytic stages of <i>Plasmodium falciparum</i> . <i>Molecular and Biochemical Parasitology</i> , 2012, 185, 48-51.	0.5	10
69	Molecular characterization of a <i>Plasmodium falciparum</i> gene encoding the mitochondrial phosphate carrier. <i>Molecular and Biochemical Parasitology</i> , 1996, 78, 297-301.	0.5	8
70	Antiparasitic and disease-modifying activity of <i>Nyctanthes arbor-tristis</i> Linn. in malaria: An exploratory clinical study. <i>Journal of Ayurveda and Integrative Medicine</i> , 2016, 7, 238-248.	0.9	8
71	Metabolic adjustments of blood-stage <i>Plasmodium falciparum</i> in response to sublethal pyrazoleamide exposure. <i>Scientific Reports</i> , 2022, 12, 1167.	1.6	8
72	Atypical Molecular Basis for Drug Resistance to Mitochondrial Function Inhibitors in <i>Plasmodium falciparum</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2021, 65, .	1.4	7

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73	Plasmodium DNA fluoresces with berberine: a novel approach for diagnosis of malarial parasites. American Journal of Clinical Pathology, 2005, 124, 408-12.	0.4	7
74	Dramatic Consequences of Reducing Erythrocyte Membrane Cholesterol on Plasmodium falciparum. Microbiology Spectrum, 2022, 10, e0015822.	1.2	7
75	Characterization of a Plasmodium falciparum Orthologue of the Yeast Ubiquinone-Binding Protein, Coq10p. PLoS ONE, 2016, 11, e0152197.	1.1	6
76	Lack of induction of murine mammary tumor virus expression in cultured mammary glands treated with chemical carcinogens. International Journal of Cancer, 1981, 27, 811-817.	2.3	5
77	The Mitochondrion. , 0, , 234-252.		5
78	Malaria parasites deck the holes in erythrocytes. Blood, 2004, 104, 3844-3844.	0.6	3
79	Associations between Varied Susceptibilities to PfATP4 Inhibitors and Genotypes in Ugandan Plasmodium falciparum Isolates. Antimicrobial Agents and Chemotherapy, 2021, 65, e0077121.	1.4	2
80	Bioactivities and the effect of dilution on various milk-borne murine mammary tumor viruses. International Journal of Cancer, 1979, 24, 792-799.	2.3	0
81	Regulatory sequences of endogenous mouse mammary tumor virus locus Mtv-8 from different mouse strains. Nucleic Acids Research, 1987, 15, 4353-4353.	6.5	0
82	Reflections on an inflection: From virology to parasitology guided by POLARIS. PLoS Pathogens, 2018, 14, e1006941.	2.1	0
83	Structural Analysis of the Interaction of Pyrazole and Benzimidazole Core Compounds with PfATP4. FASEB Journal, 2022, 36, .	0.2	0