## Sergio Wittlin

List of Publications by Year in descending order

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73 papers 2,648 citations

236925 25 h-index 214800 47 g-index

77 all docs

77 docs citations

77 times ranked

3216 citing authors

#	Article	IF	CITATIONS
1	A novel multiple-stage antimalarial agent that inhibits protein synthesis. Nature, 2015, 522, 315-320.	27.8	353
2	A long-duration dihydroorotate dehydrogenase inhibitor (DSM265) for prevention and treatment of malaria. Science Translational Medicine, 2015, 7, 296ra111.	12.4	254
3	Antimalarial efficacy of MMV390048, an inhibitor of <i>Plasmodium</i> phosphatidylinositol 4-kinase. Science Translational Medicine, 2017, 9, .	12.4	204
4	Novel Inhibitors of Plasmodium falciparum Dihydroorotate Dehydrogenase with Anti-malarial Activity in the Mouse Model*. Journal of Biological Chemistry, 2010, 285, 33054-33064.	3.4	121
5	In vitro and in vivo interaction of synthetic peroxide RBx $11160$ (OZ277) with piperaquine in Plasmodium models. Experimental Parasitology, 2007, $115$ , 296-300.	1.2	103
6	Lysyl-tRNA synthetase as a drug target in malaria and cryptosporidiosis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7015-7020.	7.1	94
7	Open Source Drug Discovery: Highly Potent Antimalarial Compounds Derived from the Tres Cantos Arylpyrroles. ACS Central Science, 2016, 2, 687-701.	11.3	68
8	Discovery of a Quinoline-4-carboxamide Derivative with a Novel Mechanism of Action, Multistage Antimalarial Activity, and Potent in Vivo Efficacy. Journal of Medicinal Chemistry, 2016, 59, 9672-9685.	6.4	66
9	Identification of New Human Malaria Parasite <i>Plasmodium falciparum</i> Dihydroorotate Dehydrogenase Inhibitors by Pharmacophore and Structure-Based Virtual Screening. Journal of Chemical Information and Modeling, 2016, 56, 548-562.	5.4	61
10	Antimalarial pantothenamide metabolites target acetyl–coenzyme A biosynthesis in <i>Plasmodium falciparum</i> . Science Translational Medicine, 2019, 11, .	12.4	59
11	CRISPRâ€Cas9â€modified <i>pfmdr1</i> protects <i>Plasmodium falciparum</i> 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.	2.5	56
12	Fast in vitro methods to determine the speed of action and the stage-specificity of anti-malarials in Plasmodium falciparum. Malaria Journal, 2013, 12, 424.	2.3	54
13	Structure–Activity Relationship of the Antimalarial Ozonide Artefenomel (OZ439). Journal of Medicinal Chemistry, 2017, 60, 2654-2668.	6.4	52
14	Identification of a Potential Antimalarial Drug Candidate from a Series of 2-Aminopyrazines by Optimization of Aqueous Solubility and Potency across the Parasite Life Cycle. Journal of Medicinal Chemistry, 2016, 59, 9890-9905.	6.4	51
15	Discovery of Novel Benzo[ <i>a</i> ]phenoxazine SSJ-183 as a Drug Candidate for Malaria. ACS Medicinal Chemistry Letters, 2010, 1, 360-364.	2.8	47
16	Histone Methyltransferase Inhibitors Are Orally Bioavailable, Fast-Acting Molecules with Activity against Different Species Causing Malaria in Humans. Antimicrobial Agents and Chemotherapy, 2015, 59, 950-959.	3.2	43
17	Optimization of Potent Inhibitors of <i>P. falciparum</i> Dihydroorotate Dehydrogenase for the Treatment of Malaria. ACS Medicinal Chemistry Letters, 2011, 2, 708-713.	2.8	41
18	UCT943, a Next-Generation Plasmodium falciparum PI4K Inhibitor Preclinical Candidate for the Treatment of Malaria. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	40

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19	Antimalarial Pyrido[1,2- <i>a</i> )benzimidazoles: Lead Optimization, Parasite Life Cycle Stage Profile, Mechanistic Evaluation, Killing Kinetics, and in Vivo Oral Efficacy in a Mouse Model. Journal of Medicinal Chemistry, 2017, 60, 1432-1448.	6.4	36
20	Arylmethylamino steroids as antiparasitic agents. Nature Communications, 2017, 8, 14478.	12.8	36
21	Characterization of Novel Antimalarial Compound ACT-451840: Preclinical Assessment of Activity and Dose–Efficacy Modeling. PLoS Medicine, 2016, 13, e1002138.	8.4	35
22	Identification and Deconvolution of Cross-Resistance Signals from Antimalarial Compounds Using Multidrug-Resistant Plasmodium falciparum Strains. Antimicrobial Agents and Chemotherapy, 2015, 59, 1110-1118.	3.2	34
23	A Novel Pyrazolopyridine with in Vivo Activity in <i>Plasmodium berghei</i> -and <i>Plasmodium falciparumInfected Mouse Models from Structure–Activity Relationship Studies around the Core of Recently Identified Antimalarial Imidazopyridazines. Journal of Medicinal Chemistry, 2015, 58, 8713-8722.</i>	6.4	32
24	Identification of a New Chemical Class of Antimalarials. Journal of Infectious Diseases, 2012, 206, 735-743.	4.0	28
25	Monoclonal Antibodies That Recognize the Alkylation Signature of Antimalarial Ozonides OZ277 (Arterolane) and OZ439 (Artefenomel). ACS Infectious Diseases, 2016, 2, 54-61.	3.8	27
26	The antimalarial MMV688533 provides potential for single-dose cures with a high barrier to <i>Plasmodium falciparum</i> parasite resistance. Science Translational Medicine, 2021, 13, .	12.4	25
27	Potent Antimalarials with Development Potential Identified by Structure-Guided Computational Optimization of a Pyrrole-Based Dihydroorotate Dehydrogenase Inhibitor Series. Journal of Medicinal Chemistry, 2021, 64, 6085-6136.	6.4	24
28	In vitro activity of anti-malarial ozonides against an artemisinin-resistant isolate. Malaria Journal, 2017, 16, 45.	2.3	23
29	Stochastic Protein Alkylation by Antimalarial Peroxides. ACS Infectious Diseases, 2019, 5, 2067-2075.	3.8	23
30	Lead Optimization of a Pyrrole-Based Dihydroorotate Dehydrogenase Inhibitor Series for the Treatment of Malaria. Journal of Medicinal Chemistry, 2020, 63, 4929-4956.	6.4	23
31	Antimalarial Pyrido[1,2-a]benzimidazole Derivatives with Mannich Base Side Chains: Synthesis, Pharmacological Evaluation, and Reactive Metabolite Trapping Studies. ACS Infectious Diseases, 2019, 5, 372-384.	3.8	22
32	Discovery and Characterization of ACTâ€451840: an Antimalarial Drug with a Novel Mechanism of Action. ChemMedChem, 2016, 11, 1995-2014.	3.2	20
33	Identification and In-Vitro ADME Assessment of a Series of Novel Anti-Malarial Agents Suitable for Hit-to-Lead Chemistry. ACS Medicinal Chemistry Letters, 2012, 3, 570-573.	2.8	19
34	Antimalarial benzoheterocyclic 4-aminoquinolines: Structure–activity relationship, in vivo evaluation, mechanistic and bioactivation studies. Bioorganic and Medicinal Chemistry, 2015, 23, 5419-5432.	3.0	19
35	Synthesis and biological characterisation of ester and amide derivatives of fusidic acid as antiplasmodial agents. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 658-661.	2.2	19
36	Identification of Fast-Acting 2,6-Disubstituted Imidazopyridines That Are Efficacious in the in Vivo Humanized <i>Plasmodium falciparum</i> NODscidIL2Rγ <sup><i>null</i></sup> Mouse Model of Malaria. Journal of Medicinal Chemistry, 2018, 61, 4213-4227.	6.4	19

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37	Design of proteasome inhibitors with oral efficacy in vivo against <i>Plasmodium falciparum</i> selectivity over the human proteasome. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	19
38	UV-triggered Affinity Capture Identifies Interactions between the Plasmodium falciparum Multidrug Resistance Protein 1 (PfMDR1) and Antimalarial Agents in Live Parasitized Cells. Journal of Biological Chemistry, 2013, 288, 22576-22583.	3.4	18
39	Cell Penetration, Herbicidal Activity, and <i>inâ€vivo</i> i>â€Toxicity of Oligoâ€Arginine Derivatives and of Novel Guanidiniumâ€Rich Compounds Derived from the Biopolymer Cyanophycin. Helvetica Chimica Acta, 2018, 101, e1800112.	1.6	17
40	Multistage Antiplasmodium Activity of Astemizole Analogues and Inhibition of Hemozoin Formation as a Contributor to Their Mode of Action. ACS Infectious Diseases, 2019, 5, 303-315.	3.8	16
41	Antimalarial Benzimidazole Derivatives Incorporating Phenolic Mannich Base Side Chains Inhibit Microtubule and Hemozoin Formation: Structureâ€"Activity Relationship and ⟨i⟩In Vivo⟨ i⟩ Oral Efficacy Studies. Journal of Medicinal Chemistry, 2021, 64, 5198-5215.	6.4	16
42	Synthesis of cyanine dyes and investigation of their in vitro antiprotozoal activities. MedChemComm, 2012, 3, 1435.	3.4	14
43	Novel synthetic route for antimalarial benzo[a]phenoxazine derivative SSJ-183 and two active metabolites. Bioorganic and Medicinal Chemistry, 2014, 22, 3749-3752.	3.0	14
44	Structure–Activity Relationship Studies of Orally Active Antimalarial 2,4-Diamino-thienopyrimidines. Journal of Medicinal Chemistry, 2015, 58, 7572-7579.	6.4	14
45	Discovery of FNDR-20123, a histone deacetylase inhibitor for the treatment of Plasmodium falciparum malaria. Malaria Journal, 2020, 19, 365.	2.3	14
46	Repositioning and Characterization of 1-(Pyridin-4-yl)pyrrolidin-2-one Derivatives as <i>Plasmodium</i> Cytoplasmic Prolyl-tRNA Synthetase Inhibitors. ACS Infectious Diseases, 2021, 7, 1680-1689.	3.8	14
47	From Magic Bullet to Magic Bomb: Reductive Bioactivation of Antiparasitic Agents. ACS Infectious Diseases, 2021, 7, 2777-2786.	3.8	14
48	Anti-malarial ozonides OZ439 and OZ609 tested at clinically relevant compound exposure parameters in a novel ring-stage survival assay. Malaria Journal, 2019, 18, 427.	2.3	13
49	New Amidated 3,6-Diphenylated Imidazopyridazines with Potent Antiplasmodium Activity Are Dual Inhibitors of <i>Plasmodium</i> Phosphatidylinositol-4-kinase and cGMP-Dependent Protein Kinase. ACS Infectious Diseases, 2021, 7, 34-46.	3.8	13
50	Preclinical characterization and target validation of the antimalarial pantothenamide MMV693183. Nature Communications, 2022, 13, 2158.	12.8	13
51	Evaluation of 4-Amino 2-Anilinoquinazolines against <i>Plasmodium</i> and Other Apicomplexan Parasites <i>In Vitro</i> and in a <i>P. falciparum</i> Humanized NOD- <i>scid</i> IL2Rγ <sup>null</sup> Mouse Model of Malaria. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	12
52	Antimalarial <i>N</i> <sup>1</sup> , <i>N</i> <sup>3</sup> -Dialkyldioxonaphthoimidazoliums: Synthesis, Biological Activity, and Structure–activity Relationships. ACS Medicinal Chemistry Letters, 2020, 11, 49-55.	2.8	12
53	3D-QSAR Modeling and Synthesis of New Fusidic Acid Derivatives as Antiplasmodial Agents. Journal of Chemical Information and Modeling, 2018, 58, 1553-1560.	5.4	11
54	Incorporation of an intramolecular hydrogen bonding motif in the side chain of antimalarial benzimidazoles. MedChemComm, 2019, 10, 450-455.	3.4	11

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55	Identification of 2,4-Disubstituted Imidazopyridines as Hemozoin Formation Inhibitors with Fast-Killing Kinetics and <i>In Vivo</i> Efficacy in the <i>Plasmodium falciparum</i> NSG Mouse Model. Journal of Medicinal Chemistry, 2020, 63, 13013-13030.	6.4	11
56	Identification and Profiling of a Novel Diazaspiro [3.4] octane Chemical Series Active against Multiple Stages of the Human Malaria Parasite <i>Plasmodium falciparum</i> and Optimization Efforts. Journal of Medicinal Chemistry, 2021, 64, 2291-2309.	6.4	11
57	Discovery and Structure–Activity Relationships of Quinazolinone-2-carboxamide Derivatives as Novel Orally Efficacious Antimalarials. Journal of Medicinal Chemistry, 2021, 64, 12582-12602.	6.4	11
58	Identification of steroid-like natural products as antiplasmodial agents by 2D and 3D similarity-based virtual screening. MedChemComm, 2017, 8, 1152-1157.	3.4	10
59	Antiplasmodial imidazopyridazines: structure–activity relationship studies lead to the identification of analogues with improved solubility and hERG profiles. MedChemComm, 2018, 9, 1733-1745.	3.4	10
60	Ensemble modeling highlights importance of understanding parasite-host behavior in preclinical antimalarial drug development. Scientific Reports, 2020, 10, 4410.	3.3	10
61	Novel Antimalarial Tetrazoles and Amides Active against the Hemoglobin Degradation Pathway in <i>Plasmodium falciparum</i> . Journal of Medicinal Chemistry, 2021, 64, 2739-2761.	6.4	10
62	Antimalarial Lead-Optimization Studies on a 2,6-Imidazopyridine Series within a Constrained Chemical Space To Circumvent Atypical Doseâ€"Response Curves against Multidrug Resistant Parasite Strains. Journal of Medicinal Chemistry, 2018, 61, 9371-9385.	6.4	9
63	The 3-phosphoinositide–dependent protein kinase 1 is an essential upstream activator of protein kinase A in malaria parasites. PLoS Biology, 2021, 19, e3001483.	<b>5.</b> 6	9
64	Two successful decades of Swiss collaborations to develop new anti-malarials. Malaria Journal, 2019, 18, 94.	2.3	8
65	Structure–Activity Relationship Studies and <i>Plasmodium</i> Life Cycle Profiling Identifies Pan-Active <i>N</i> -Aryl-3-trifluoromethyl Pyrido[1,2- <i>a</i> )]benzimidazoles Which Are Efficacious in an <i>in Vivo</i> Mouse Model of Malaria. Journal of Medicinal Chemistry, 2019, 62, 1022-1035.	6.4	8
66	The catalytic subunit of Plasmodium falciparum casein kinase 2 is essential for gametocytogenesis. Communications Biology, 2021, 4, 336.	4.4	6
67	Investigating Sulfoxide-to-Sulfone Conversion as a Prodrug Strategy for a Phosphatidylinositol 4-Kinase Inhibitor in a Humanized Mouse Model of Malaria. Antimicrobial Agents and Chemotherapy, 2018, 62, .	3.2	5
68	3-Hydroxy-propanamidines, a New Class of Orally Active Antimalarials Targeting Plasmodium falciparum. Journal of Medicinal Chemistry, 2021, 64, 3035-3047.	6.4	5
69	Antiprotozoal Selectivity of Diimidazoline $\langle i \rangle N \langle i \rangle$ -Phenylbenzamides. ACS Infectious Diseases, 2015, 1, 135-139.	3.8	4
70	3-Hydroxy-N′-arylidenepropanehydrazonamides with Halo-Substituted Phenanthrene Scaffolds Cure P. berghei Infected Mice When Administered Perorally. Journal of Medicinal Chemistry, 2017, 60, 6036-6044.	6.4	4
71	Cytochrome P450-Mediated Metabolism and CYP Inhibition for the Synthetic Peroxide Antimalarial OZ439. ACS Infectious Diseases, 2021, 7, 1885-1893.	3.8	3
72	Metabolic, Pharmacokinetic, and Activity Profile of the Liver Stage Antimalarial (RC-12). ACS Omega, 2022, 7, 12401-12411.	<b>3.</b> 5	1

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#	Article	IF	CITATIONS
73	Our Exciting Journey to ACT-451840. Chimia, 2021, 75, 916-922.	0.6	O