Marcus C S Lee

List of Publications by Year
in descending order

53 papers	6,783 citations	117625 34 h-index	168389 53 g-index
59 all docs	59 docs citations	59 times ranked	7174 citing authors

#	Article	IF	Citations
1	Spiroindolones, a Potent Compound Class for the Treatment of Malaria. Science, 2010, 329, 1175-1180.	12.6	1,031
2	BI-DIRECTIONAL PROTEIN TRANSPORT BETWEEN THE ER AND GOLGI. Annual Review of Cell and Developmental Biology, 2004, 20, 87-123.	9.4	815
3	Multiple Cargo Binding Sites on the COPII Subunit Sec24p Ensure Capture of Diverse Membrane Proteins into Transport Vesicles. Cell, 2003, 114, 497-509.	28.9	461
4	Sar1p N-Terminal Helix Initiates Membrane Curvature and Completes the Fission of a COPII Vesicle. Cell, 2005, 122, 605-617.	28.9	455
5	Targeting Plasmodium PI(4)K to eliminate malaria. Nature, 2013, 504, 248-253.	27.8	377
6	A novel multiple-stage antimalarial agent that inhibits protein synthesis. Nature, 2015, 522, 315-320.	27.8	353
7	Imaging of Plasmodium Liver Stages to Drive Next-Generation Antimalarial Drug Discovery. Science, 2011, 334, 1372-1377.	12.6	308
8	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.	7.1	293
9	Antimalarial efficacy of MMV390048, an inhibitor of Plasmodium phosphatidylinositol 4-kinase. Science Translational Medicine, 2017, 9, .	12.4	204
10	(+)-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.	7.1	199
11	Mapping the malaria parasite druggable genome by using in vitro evolution and chemogenomics. Science, 2018, 359, 191-199.	12.6	194
12	Site-specific genome editing in Plasmodium falciparum using engineered zinc-finger nucleases. Nature Methods, 2012, 9, 993-998.	19.0	149
13	Profiling the Essential Nature of Lipid Metabolism in Asexual Blood and Gametocyte Stages of Plasmodium falciparum. Cell Host and Microbe, 2015, 18, 371-381.	11.0	144
14	Ceramide Biosynthesis Is Required for the Formation of the Oligomeric H+-ATPase Pma1p in the Yeast Endoplasmic Reticulum. Journal of Biological Chemistry, 2002, 277, 22395-22401.	3.4	124
15	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.	3.2	122
16	A potent antimalarial benzoxaborole targets a Plasmodium falciparum cleavage and polyadenylation specificity factor homologue. Nature Communications, 2017, 8, 14574.	12.8	110
17	UDP-galactose and acetyl-CoA transporters as Plasmodium multidrug resistance genes. Nature Microbiology, 2016, 1, 16166.	13.3	102
18	A broad analysis of resistance development in the malaria parasite. Nature Communications, 2016, 7, 11901.	12.8	94

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19	Molecular mechanisms of COPII vesicle formation. Seminars in Cell and Developmental Biology, 2007, 18, 424-434.	5.0	79
20	Genomewide Analysis Reveals Novel Pathways Affecting Endoplasmic Reticulum Homeostasis, Protein Modification and Quality Control. Genetics, 2009, 182, 757-769.	2.9	62
21	Insights into the intracellular localization, protein associations and artemisinin resistance properties of Plasmodium falciparumÂK13. PLoS Pathogens, 2020, 16, e1008482.	4.7	60
22	Wherever I may roam: Protein and membrane trafficking in P. falciparum-infected red blood cells. Molecular and Biochemical Parasitology, 2012, 186, 95-116.	1.1	56
23	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.	2.5	56
24	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.	5.2	56
25	Identification and Characterization of a Prevacuolar Compartment in Stigmas of Nicotiana alata. Plant Cell, 1999, 11, 1499-1508.	6.6	54
26	Combining Stage Specificity and Metabolomic Profiling to Advance Antimalarial Drug Discovery. Cell Chemical Biology, 2020, 27, 158-171.e3.	5.2	54
27	A novel two-chain proteinase inhibitor generated by circularization of a multidomain precursor protein. Nature Structural Biology, 1999, 6, 526-530.	9.7	51
28	Inhibiting Endoplasmic Reticulum (ER)-associated Degradation of Misfolded Yor1p Does Not Permit ER Export Despite the Presence of a Diacidic Sorting Signal. Molecular Biology of the Cell, 2007, 18, 3398-3413.	2.1	51
29	MalDA, Accelerating Malaria Drug Discovery. Trends in Parasitology, 2021, 37, 493-507.	3.3	51
30	A Method for Rapid Genetic Integration into Plasmodium falciparum Utilizing Mycobacteriophage Bxb1 Integrase. Methods in Molecular Biology, 2010, 634, 87-100.	0.9	50
31	Plasmodium falciparum Sec24 marks transitional ER that exports a model cargo via a diacidic motif. Molecular Microbiology, 2008, 68, 1535-1546.	2.5	49
32	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.	5.2	48
33	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.	3.8	43
34	Chemogenomics identifies acetyl-coenzyme A synthetase as a target for malaria treatment and prevention. Cell Chemical Biology, 2022, 29, 191-201.e8.	5.2	39
35	Cutting back malaria: CRISPR/Cas9 genome editing of Plasmodium. Briefings in Functional Genomics, 2019, 18, 281-289.	2.7	38
36	N-Aryl-2-aminobenzimidazoles: Novel, Efficacious, Antimalarial Lead Compounds. Journal of Medicinal Chemistry, 2014, 57, 6642-6652.	6.4	37

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37	Prioritization of Molecular Targets for Antimalarial Drug Discovery. ACS Infectious Diseases, 2021, 7, 2764-2776.	3.8	35
38	Identification of a novel four-domain member of the proteinase inhibitor II family from the stigmas of Nicotiana alata. Plant Molecular Biology, 2000, 42, 329-333.	3.9	33
39	CELL BIOLOGY: BAR Domains Go on a Bender. Science, 2004, 303, 479-480.	12.6	32
40	Overexpression of plasmepsin II and plasmepsin III does not directly cause reduction in Plasmodium falciparum sensitivity to artesunate, chloroquine and piperaquine. International Journal for Parasitology: Drugs and Drug Resistance, 2019, 9, 16-22.	3.4	32
41	Pan-active imidazolopiperazine antimalarials target the Plasmodium falciparum intracellular secretory pathway. Nature Communications, 2020, 11, 1780.	12.8	27
42	Reaction hijacking of tyrosine tRNA synthetase as a new whole-of-life-cycle antimalarial strategy. Science, 2022, 376, 1074-1079.	12.6	25
43	Structure of a putative ancestral protein encoded by a single sequence repeat from a multidomain proteinase inhibitor gene fromNicotiana alata. Structure, 1999, 7, 793-802.	3.3	21
44	The solution structure of C1-T1, a two-domain proteinase inhibitor derived from a circular precursor protein from Nicotiana alata11Edited by P. E. Wright. Journal of Molecular Biology, 2001, 306, 69-79.	4.2	20
45	Nedd8 hydrolysis by UCH proteases in Plasmodium parasites. PLoS Pathogens, 2019, 15, e1008086.	4.7	19
46	An integrated strategy for efficient vector construction and multi-gene expression in Plasmodium falciparum. Malaria Journal, 2013, 12, 373.	2.3	18
47	PfMFR3: A Multidrug-Resistant Modulator in Plasmodium falciparum. ACS Infectious Diseases, 2021, 7, 811-825.	3.8	16
48	Arresting malaria parasite egress from infected red blood cells. Nature Chemical Biology, 2008, 4, 161-162.	8.0	9
49	Defining multiplicity of vector uptake in transfected Plasmodium parasites. Scientific Reports, 2020, 10, 10894.	3.3	9
50	The Key Glycolytic Enzyme Phosphofructokinase Is Involved in Resistance to Antiplasmodial Glycosides. MBio, 2020, 11, .	4.1	5
51	Lumefantrine attenuates Plasmodium falciparum artemisinin resistance during the early ring stage. International Journal for Parasitology: Drugs and Drug Resistance, 2021, 17, 186-190.	3.4	3
52	Body weight satisfaction and disordered eating among youth who are active in sport in Singapore. Pedagogics, Psychology, Medical-Biological Problems of Physical Training and Sports, 2015, 19, 51-58.	0.4	1
53	Scientists on a RAMPAGE to find apicomplexan transcription start sites. Nature Reviews Microbiology, 2021, 19, 483-483.	28.6	0