

# Michelle L Gatton

## List of Publications by Citations

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105  
papers

3,917  
citations

34  
h-index

59  
g-index

106  
ext. papers

4,572  
ext. citations

4.7  
avg, IF

5.15  
L-index

#	Paper	IF	Citations
105	A systematic review of mathematical models of mosquito-borne pathogen transmission: 1970-2010. <i>Journal of the Royal Society Interface</i> , <b>2013</b> , 10, 20120921	4.1	239
104	A large proportion of asymptomatic Plasmodium infections with low and sub-microscopic parasite densities in the low transmission setting of Temotu Province, Solomon Islands: challenges for malaria diagnostics in an elimination setting. <i>Malaria Journal</i> , <b>2010</b> , 9, 254	3.6	212
103	Genetic diversity of Plasmodium falciparum histidine-rich protein 2 (PfHRP2) and its effect on the performance of PfHRP2-based rapid diagnostic tests. <i>Journal of Infectious Diseases</i> , <b>2005</b> , 192, 870-7	7	203
102	The importance of mosquito behavioural adaptations to malaria control in Africa. <i>Evolution; International Journal of Organic Evolution</i> , <b>2013</b> , 67, 1218-30	3.8	188
101	Artemisinin-induced dormancy in plasmodium falciparum: duration, recovery rates, and implications in treatment failure. <i>Journal of Infectious Diseases</i> , <b>2010</b> , 202, 1362-8	7	161
100	Effect of sequence variation in Plasmodium falciparum histidine- rich protein 2 on binding of specific monoclonal antibodies: Implications for rapid diagnostic tests for malaria. <i>Journal of Clinical Microbiology</i> , <b>2006</b> , 44, 2773-8	9.7	138
99	Plasmodium falciparum parasites lacking histidine-rich protein 2 and 3: a review and recommendations for accurate reporting. <i>Malaria Journal</i> , <b>2014</b> , 13, 283	3.6	131
98	Relapses of Plasmodium vivax infection result from clonal hypnozoites activated at predetermined intervals. <i>Journal of Infectious Diseases</i> , <b>2007</b> , 195, 934-41	7	124
97	Recasting the theory of mosquito-borne pathogen transmission dynamics and control. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , <b>2014</b> , 108, 185-97	2	110
96	Global sequence variation in the histidine-rich proteins 2 and 3 of Plasmodium falciparum: implications for the performance of malaria rapid diagnostic tests. <i>Malaria Journal</i> , <b>2010</b> , 9, 129	3.6	110
95	Suppression of mRNAs encoding tegument tetraspanins from Schistosoma mansoni results in impaired tegument turnover. <i>PLoS Pathogens</i> , <b>2010</b> , 6, e1000840	7.6	98
94	High diversity and rapid changeover of expressed var genes during the acute phase of Plasmodium falciparum infections in human volunteers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 10689-94	11.5	92
93	Systematic review of sub-microscopic P. vivax infections: prevalence and determining factors. <i>PLoS Neglected Tropical Diseases</i> , <b>2015</b> , 9, e3413	4.8	91
92	Major Threat to Malaria Control Programs by Plasmodium falciparum Lacking Histidine-Rich Protein 2, Eritrea. <i>Emerging Infectious Diseases</i> , <b>2018</b> , 24, 462-470	10.2	86
91	Cross-border malaria: a major obstacle for malaria elimination. <i>Advances in Parasitology</i> , <b>2015</b> , 89, 79-107.	3.2	67
90	Artemisinin-induced parasite dormancy: a plausible mechanism for treatment failure. <i>Malaria Journal</i> , <b>2011</b> , 10, 56	3.6	62
89	Artemisinin resistance in Plasmodium falciparum: A process linked to dormancy?. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , <b>2012</b> , 2, 249-255	4	54

88	Temporal patterns and predictors of bullying roles among adolescents in Vietnam: a school-based cohort study. <i>Psychology, Health and Medicine</i> , <b>2017</b> , 22, 107-121	2.1	53
87	Evolution of resistance to sulfadoxine-pyrimethamine in <i>Plasmodium falciparum</i> . <i>Antimicrobial Agents and Chemotherapy</i> , <b>2004</b> , 48, 2116-23	5.9	53
86	Phenotypic changes in artemisinin-resistant <i>Plasmodium falciparum</i> lines in vitro: evidence for decreased sensitivity to dormancy and growth inhibition. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2012</b> , 56, 428-31	5.9	51
85	Mitochondrial Membrane Potential in a Small Subset of Artemisinin-Induced Dormant <i>Plasmodium falciparum</i> Parasites In Vitro. <i>Journal of Infectious Diseases</i> , <b>2015</b> , 212, 426-34	7	50
84	Identification of optimal epitopes for <i>Plasmodium falciparum</i> rapid diagnostic tests that target histidine-rich proteins 2 and 3. <i>Journal of Clinical Microbiology</i> , <b>2012</b> , 50, 1397-405	9.7	50
83	The <i>Plasmodium falciparum</i> var gene switching rate, switching mechanism and patterns of parasite recrudescence described by mathematical modelling. <i>Parasitology</i> , <b>2002</b> , 124, 225-35	2.7	49
82	Mutations in cytochrome b resulting in atovaquone resistance are associated with loss of fitness in <i>Plasmodium falciparum</i> . <i>Antimicrobial Agents and Chemotherapy</i> , <b>2002</b> , 46, 2435-41	5.9	48
81	Transcription and expression of <i>Plasmodium falciparum</i> histidine-rich proteins in different stages and strains: implications for rapid diagnostic tests. <i>PLoS ONE</i> , <b>2011</b> , 6, e22593	3.7	47
80	Fatty acid synthesis and pyruvate metabolism pathways remain active in dihydroartemisinin-induced dormant ring stages of <i>Plasmodium falciparum</i> . <i>Antimicrobial Agents and Chemotherapy</i> , <b>2014</b> , 58, 4773-81	5.9	45
79	Critical Evaluation of Quantitative Sampling Methods for <i>Aedes aegypti</i> (Diptera: Culicidae) Immatures in Water Storage Containers in Vietnam. <i>Journal of Medical Entomology</i> , <b>2007</b> , 44, 192-204	2.2	45
78	Genetic diversity of the DBLalpha region in <i>Plasmodium falciparum</i> var genes among Asia-Pacific isolates. <i>Molecular and Biochemical Parasitology</i> , <b>2002</b> , 120, 117-26	1.9	45
77	Differential changes in <i>Plasmodium falciparum</i> var transcription during adaptation to culture. <i>Journal of Infectious Diseases</i> , <b>2007</b> , 195, 748-55	7	42
76	ENVIRONMENTAL PREDICTORS OF ROSS RIVER VIRUS DISEASE OUTBREAKS IN QUEENSLAND, AUSTRALIA. <i>American Journal of Tropical Medicine and Hygiene</i> , <b>2005</b> , 72, 792-799	3.2	41
75	Kinematics and movement sequencing during flexion of the lumbar spine. <i>Clinical Biomechanics</i> , <b>1999</b> , 14, 376-83	2.2	38
74	A review of the WHO malaria rapid diagnostic test product testing programme (2008-2018): performance, procurement and policy. <i>Malaria Journal</i> , <b>2019</b> , 18, 387	3.6	38
73	Evaluation of the pyrogenic threshold for <i>Plasmodium falciparum</i> malaria in naive individuals. <i>American Journal of Tropical Medicine and Hygiene</i> , <b>2002</b> , 66, 467-73	3.2	37
72	Critical evaluation of quantitative sampling methods for <i>Aedes aegypti</i> (Diptera: Culicidae) immatures in water storage containers in Vietnam. <i>Journal of Medical Entomology</i> , <b>2007</b> , 44, 192-204	2.2	35
71	Implications of Parasites Lacking <i>Plasmodium falciparum</i> Histidine-Rich Protein 2 on Malaria Morbidity and Control When Rapid Diagnostic Tests Are Used for Diagnosis. <i>Journal of Infectious Diseases</i> , <b>2017</b> , 215, 1156-1166	7	34

70	SPATIAL-TEMPORAL ANALYSIS OF ROSS RIVER VIRUS DISEASE PATTERNS IN QUEENSLAND, AUSTRALIA. <i>American Journal of Tropical Medicine and Hygiene</i> , <b>2004</b> , 71, 629-635	3.2	34
69	A three-dimensional mathematical model of the thoracolumbar fascia and an estimate of its biomechanical effect. <i>Journal of Biomechanics</i> , <b>2010</b> , 43, 2792-7	2.9	33
68	Performance appraisal of rapid on-site malaria diagnosis (ICT malaria Pf/Pv test) in relation to human resources at village level in Myanmar. <i>Acta Tropica</i> , <b>2002</b> , 81, 13-9	3.2	32
67	Malaria elimination in India and regional implications. <i>Lancet Infectious Diseases, The</i> , <b>2016</b> , 16, e214-e224	5.5	30
66	Switching rates of Plasmodium falciparum var genes: faster than we thought?. <i>Trends in Parasitology</i> , <b>2003</b> , 19, 202-8	6.4	30
65	Development and evaluation of a spatial decision support system for malaria elimination in Bhutan. <i>Malaria Journal</i> , <b>2016</b> , 15, 180	3.6	29
64	Deamplification of pfmdr1-containing amplicon on chromosome 5 in Plasmodium falciparum is associated with reduced resistance to artemisinin acid in vitro. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2010</b> , 54, 3395-401	5.9	28
63	Field epidemiological studies on malaria in a low endemic area in the Philippines. <i>Acta Tropica</i> , <b>1997</b> , 63, 241-56	3.2	27
62	Modelling the dynamics of Plasmodium falciparum histidine-rich protein 2 in human malaria to better understand malaria rapid diagnostic test performance. <i>Malaria Journal</i> , <b>2012</b> , 11, 74	3.6	26
61	Modeling the development of acquired clinical immunity to Plasmodium falciparum malaria. <i>Infection and Immunity</i> , <b>2004</b> , 72, 6538-45	3.7	26
60	Pan-Plasmodium band sensitivity for Plasmodium falciparum detection in combination malaria rapid diagnostic tests and implications for clinical management. <i>Malaria Journal</i> , <b>2015</b> , 14, 115	3.6	24
59	Longitudinal associations between bullying and mental health among adolescents in Vietnam. <i>International Journal of Public Health</i> , <b>2017</b> , 62, 51-61	4	23
58	Circulating antibodies against Plasmodium falciparum histidine-rich proteins 2 interfere with antigen detection by rapid diagnostic tests. <i>Malaria Journal</i> , <b>2014</b> , 13, 480	3.6	22
57	Preferential invasion by Plasmodium merozoites and the self-regulation of parasite burden. <i>PLoS ONE</i> , <b>2013</b> , 8, e57434	3.7	22
56	An analytical method for assessing stage-specific drug activity in Plasmodium vivax malaria: implications for ex vivo drug susceptibility testing. <i>PLoS Neglected Tropical Diseases</i> , <b>2012</b> , 6, e1772	4.8	22
55	HRP2 and pLDH-Based Rapid Diagnostic Tests, Expert Microscopy, and PCR for Detection of Malaria Infection during Pregnancy and at Delivery in Areas of Varied Transmission: A Prospective Cohort Study in Burkina Faso and Uganda. <i>PLoS ONE</i> , <b>2016</b> , 11, e0156954	3.7	21
54	Comparative performance of four rapid Ebola antigen-detection lateral flow immunoassays during the 2014-2016 Ebola epidemic in West Africa. <i>PLoS ONE</i> , <b>2019</b> , 14, e0212113	3.7	20
53	Comparative effectiveness of malaria prevention measures: a systematic review and network meta-analysis. <i>Parasites and Vectors</i> , <b>2018</b> , 11, 210	4	20

52	Modelling the line of action for the oblique abdominal muscles using an elliptical torso model. <i>Journal of Biomechanics</i> , <b>2001</b> , 34, 1203-7	2.9	20
51	Abundance and prevalence of <i>Aedes aegypti</i> immatures and relationships with household water storage in rural areas in southern Viet Nam. <i>International Health</i> , <b>2011</b> , 3, 115-25	2.4	19
50	Can estimates of antimalarial efficacy from field studies be improved?. <i>Trends in Parasitology</i> , <b>2008</b> , 24, 68-73	6.4	17
49	Investigating antigenic variation and other parasite-host interactions in <i>Plasmodium falciparum</i> infections in naïve hosts. <i>Parasitology</i> , <b>2004</b> , 128, 367-76	2.7	16
48	Ross River Virus Disease Activity Associated With Naturally Occurring Nontidal Flood Events in Australia: A Systematic Review. <i>Journal of Medical Entomology</i> , <b>2014</b> , 51, 1097-108	2.2	15
47	Spatial-temporal analysis of Ross River virus disease patterns in Queensland, Australia. <i>American Journal of Tropical Medicine and Hygiene</i> , <b>2004</b> , 71, 629-35	3.2	15
46	Work it out: evaluation of a chronic condition self-management program for urban Aboriginal and Torres Strait Islander people, with or at risk of cardiovascular disease. <i>BMC Health Services Research</i> , <b>2017</b> , 17, 680	2.9	14
45	Blood transfer devices for malaria rapid diagnostic tests: evaluation of accuracy, safety and ease of use. <i>Malaria Journal</i> , <b>2011</b> , 10, 30	3.6	14
44	No genetic bottleneck in <i>Plasmodium falciparum</i> wild-type Pfcrt alleles reemerging in Hainan Island, China, following high-level chloroquine resistance. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2008</b> , 52, 345-7	5.9	14
43	Time of treatment influences the appearance of drug-resistant parasites in <i>Plasmodium falciparum</i> infections. <i>Parasitology</i> , <b>2001</b> , 123, 537-46	2.7	14
42	Inhibition of 19-kDa C-terminal region of merozoite surface protein-1-specific antibody responses in neonatal pups by maternally derived 19-kDa C-terminal region of merozoite surface protein-1-specific antibodies but not whole parasite-specific antibodies. <i>Journal of Immunology</i> , <b>2004</b> , 172, 5570-81	5.3	13
41	Costs to the patient for seeking malaria care in Myanmar. <i>Acta Tropica</i> , <b>2004</b> , 92, 173-7	3.2	13
40	Enhanced invasion of blood group A1 erythrocytes by <i>Plasmodium falciparum</i> . <i>Molecular and Biochemical Parasitology</i> , <b>2005</b> , 144, 128-30	1.9	13
39	Nature and specificity of the required protective immune response that develops postchallenge in mice vaccinated with the 19-kilodalton fragment of <i>Plasmodium yoelii</i> merozoite surface protein 1. <i>Infection and Immunity</i> , <b>2002</b> , 70, 6013-20	3.7	13
38	Ross River virus disease clusters and spatial relationship with mosquito biting exposure in Redland Shire, southern Queensland, Australia. <i>Journal of Medical Entomology</i> , <b>2006</b> , 43, 1042-59	2.2	13
37	Prevalence of asymptomatic malaria and bed net ownership and use in Bhutan, 2013: a country earmarked for malaria elimination. <i>Malaria Journal</i> , <b>2014</b> , 13, 352	3.6	12
36	DETECTION SENSITIVITY AND QUANTITATION OF PLASMODIUM FALCIPARUM VAR GENE TRANSCRIPTS BY REAL-TIME RT-PCR IN COMPARISON WITH CONVENTIONAL RT-PCR. <i>American Journal of Tropical Medicine and Hygiene</i> , <b>2006</b> , 75, 212-218	3.2	12
35	Cytochrome P450 2D6 profiles and their relationship with outcomes of primaquine anti-relapse therapy in Australian Defence Force personnel deployed to Papua New Guinea and East Timor. <i>Malaria Journal</i> , <b>2019</b> , 18, 140	3.6	11

34	An improved method for undertaking limiting dilution assays for in vitro cloning of Plasmodium falciparum parasites. <i>Malaria Journal</i> , <b>2011</b> , 10, 95	3.6	11
33	Interrupting malaria transmission: quantifying the impact of interventions in regions of low to moderate transmission. <i>PLoS ONE</i> , <b>2010</b> , 5, e15149	3.7	11
32	Outbreak detection algorithms for seasonal disease data: a case study using Ross River virus disease. <i>BMC Medical Informatics and Decision Making</i> , <b>2010</b> , 10, 74	3.6	11
31	Physical linkage to drug resistance genes results in conservation of var genes among West Pacific Plasmodium falciparum isolates. <i>Journal of Infectious Diseases</i> , <b>2006</b> , 194, 939-48	7	11
30	Difficulties in estimating muscle forces from muscle cross-sectional area. An example using the psoas major muscle. <i>Spine</i> , <b>1999</b> , 24, 1487-93	3.3	11
29	An assessment of false positive rates for malaria rapid diagnostic tests caused by non-Plasmodium infectious agents and immunological factors. <i>PLoS ONE</i> , <b>2018</b> , 13, e0197395	3.7	11
28	Impact of Plasmodium falciparum gene deletions on malaria rapid diagnostic test performance. <i>Malaria Journal</i> , <b>2020</b> , 19, 392	3.6	10
27	Malaria burden and costs of intensified control in Bhutan, 2006-14: an observational study and situation analysis. <i>The Lancet Global Health</i> , <b>2016</b> , 4, e336-43	13.6	10
26	Gender differences in gastrointestinal disturbances and plasma concentrations of tafenoquine in healthy volunteers after tafenoquine administration for post-exposure vivax malaria prophylaxis. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , <b>2007</b> , 101, 226-30	2	10
25	Detection sensitivity and quantitation of Plasmodium falciparum var gene transcripts by real-time RT-PCR in comparison with conventional RT-PCR. <i>American Journal of Tropical Medicine and Hygiene</i> , <b>2006</b> , 75, 212-8	3.2	10
24	Mental health problems both precede and follow bullying among adolescents and the effects differ by gender: a cross-lagged panel analysis of school-based longitudinal data in Vietnam. <i>International Journal of Mental Health Systems</i> , <b>2019</b> , 13, 35	3.6	9
23	Sequential monitoring of hospital adverse events when control charts fail: the example of fall injuries in hospitals. <i>Quality and Safety in Health Care</i> , <b>2009</b> , 18, 473-7		9
22	Characterization of the antibody response against Plasmodium falciparum erythrocyte membrane protein 1 in human volunteers. <i>Infection and Immunity</i> , <b>2007</b> , 75, 5967-73	3.7	9
21	Plasmodium falciparum infection dynamics and transmission potential following treatment with sulfadoxine-pyrimethamine. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2006</b> , 58, 47-51	5.1	8
20	Area socioeconomic status is independently associated with esophageal cancer mortality in Shandong, China. <i>Scientific Reports</i> , <b>2019</b> , 9, 6388	4.9	7
19	A simulation model of the within-host dynamics of Plasmodium vivax infection. <i>Malaria Journal</i> , <b>2015</b> , 14, 51	3.6	7
18	Computational model of the lumbar spine musculature: implications of spinal surgery. <i>Clinical Biomechanics</i> , <b>2011</b> , 26, 116-22	2.2	7
17	Individual- and Area-Level Socioeconomic Inequalities in Esophageal Cancer Survival in Shandong Province, China: A Multilevel Analysis. <i>Cancer Epidemiology Biomarkers and Prevention</i> , <b>2019</b> , 28, 1427-1434	4.4	6

16	Flooding and Arboviral Disease: Predicting Ross River Virus Disease Outbreaks Across Inland Regions of South-Eastern Australia. <i>Journal of Medical Entomology</i> , <b>2020</b> , 57, 241-251	2.2	6
15	HIV-malaria interactions: don't forget the drugs. <i>Science</i> , <b>2007</b> , 315, 1791; author reply 1791	33.3	6
14	ANTIBODY REACTIVITY TO LINEAR EPITOPES OF PLASMODIUM FALCIPARUM CYTOADHERENCE-LINKED ASEXUAL GENE 9 IN ASYMPTOMATIC CHILDREN AND ADULTS FROM PAPUA NEW GUINEA. <i>American Journal of Tropical Medicine and Hygiene</i> , <b>2005</b> , 72, 708-713	3.2	6
13	Spatial and temporal analysis of dengue infections in Queensland, Australia: Recent trend and perspectives. <i>PLoS ONE</i> , <b>2019</b> , 14, e0220134	3.7	5
12	New control chart methods for monitoring MROs in Hospitals. <i>Healthcare Infection</i> , <b>2007</b> , 12, 14-18		5
11	Dormant Plasmodium falciparum Parasites in Human Infections Following Artesunate Therapy. <i>Journal of Infectious Diseases</i> , <b>2021</b> , 223, 1631-1638	7	5
10	Prototype Positive Control Wells for Malaria Rapid Diagnostic Tests: Prospective Evaluation of Implementation Among Health Workers in Lao People's Democratic Republic and Uganda. <i>American Journal of Tropical Medicine and Hygiene</i> , <b>2017</b> , 96, 319-329	3.2	4
9	Different responses of dengue to weather variability across climate zones in Queensland, Australia. <i>Environmental Research</i> , <b>2020</b> , 184, 109222	7.9	4
8	Efficacy of sulfadoxine-pyrimethamine in the treatment of uncomplicated Plasmodium falciparum malaria in East Timor. <i>American Journal of Tropical Medicine and Hygiene</i> , <b>2006</b> , 74, 361-6	3.2	4
7	Quality assurance of aerial applications of larvicides for mosquito control: effects of granule and catch tray size on field monitoring programs. <i>Journal of Economic Entomology</i> , <b>2009</b> , 102, 507-14	2.2	2
6	EFFICACY OF SULFADOXINE-PYRIMETHAMINE IN THE TREATMENT OF UNCOMPLICATED PLASMODIUM FALCIPARUM MALARIA IN EAST TIMOR. <i>American Journal of Tropical Medicine and Hygiene</i> , <b>2006</b> , 74, 361-366	3.2	2
5	Climate variability, socio-ecological factors and dengue transmission in tropical Queensland, Australia: A Bayesian spatial analysis. <i>Environmental Research</i> , <b>2021</b> , 195, 110285	7.9	2
4	Spatial-temporal epidemiological analyses of two sympatric, co-endemic alphaviral diseases in Queensland, Australia. <i>Vector-Borne and Zoonotic Diseases</i> , <b>2011</b> , 11, 375-82	2.4	1
3	Epidemiology of mutant Plasmodium falciparum parasites lacking histidine-rich protein 2/3 genes in Eritrea 2 years after switching from HRP2-based RDTs. <i>Scientific Reports</i> , <b>2021</b> , 11, 21082	4.9	1
2	Household water and food insecurity negatively impacts self-reported physical and mental health in the Vietnamese Mekong Delta.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0267344	3.7	1
1	Modelling the epidemiology of malaria and spread of HRP2-negative Plasmodium falciparum following the replacement of HRP2-detecting rapid diagnostic tests. <i>PLOS Global Public Health</i> , <b>2022</b> , 2, e0000106		0