

John M Marshall

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

3,607
citations

126907

33
h-index

182427

51
g-index

93
all docs

93
docs citations

93
times ranked

2256
citing authors

#	ARTICLE	IF	CITATIONS
1	THE IMPORTANCE OF MOSQUITO BEHAVIOURAL ADAPTATIONS TO MALARIA CONTROL IN AFRICA. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 1218-1230.	2.3	253
2	Transforming insect population control with precision guided sterile males with demonstration in <i>A. gambiae</i> . <i>Nature Communications</i> , 2019, 10, 84.	12.8	160
3	Development of a confinable gene drive system in the human disease vector <i>Aedes aegypti</i> . <i>ELife</i> , 2020, 9, .	6.0	156
4	A Synthetic Gene Drive System for Local, Reversible Modification and Suppression of Insect Populations. <i>Current Biology</i> , 2013, 23, 671-677.	3.9	150
5	Overcoming evolved resistance to population-suppressing homing-based gene drives. <i>Scientific Reports</i> , 2017, 7, 3776.	3.3	142
6	Consequences of resistance evolution in a Cas9-based sex conversion-suppression gene drive for insect pest management. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6189-6194.	7.1	130
7	Efficient population modification gene-drive rescue system in the malaria mosquito <i>Anopheles stephensi</i> . <i>Nature Communications</i> , 2020, 11, 5553.	12.8	110
8	Synthetically engineered <i>Medea</i> gene drive system in the worldwide crop pest <i>Drosophila suzukii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4725-4730.	7.1	109
9	Experimental population modification of the malaria vector mosquito, <i>Anopheles stephensi</i> . <i>PLoS Genetics</i> , 2019, 15, e1008440.	3.5	101
10	Novel Synthetic <i>Medea</i> Selfish Genetic Elements Drive Population Replacement in <i>Drosophila</i> ; a Theoretical Exploration of <i>Medea</i> -Dependent Population Suppression. <i>ACS Synthetic Biology</i> , 2014, 3, 915-928.	3.8	98
11	Developing an expanded vector control toolbox for malaria elimination. <i>BMJ Global Health</i> , 2017, 2, e000211.	4.7	93
12	Confinement of gene drive systems to local populations: A comparative analysis. <i>Journal of Theoretical Biology</i> , 2012, 294, 153-171.	1.7	87
13	Combating mosquito-borne diseases using genetic control technologies. <i>Nature Communications</i> , 2021, 12, 4388.	12.8	76
14	Rules of the road for insect gene drive research and testing. <i>Nature Biotechnology</i> , 2017, 35, 716-718.	17.5	74
15	Suppressing mosquito populations with precision guided sterile males. <i>Nature Communications</i> , 2021, 12, 5374.	12.8	73
16	Climate and the Timing of Imported Cases as Determinants of the Dengue Outbreak in Guangzhou, 2014: Evidence from a Mathematical Model. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004417.	3.0	72
17	Engineered Reciprocal Chromosome Translocations Drive High Threshold, Reversible Population Replacement in <i>Drosophila</i> . <i>ACS Synthetic Biology</i> , 2018, 7, 1359-1370.	3.8	72
18	Can CRISPR-Based Gene Drive Be Confined in the Wild? A Question for Molecular and Population Biology. <i>ACS Chemical Biology</i> , 2018, 13, 424-430.	3.4	71

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19	The effect of gene drive on containment of transgenic mosquitoes. <i>Journal of Theoretical Biology</i> , 2009, 258, 250-265.	1.7	70
20	Going beyond personal protection against mosquito bites to eliminate malaria transmission: population suppression of malaria vectors that exploit both human and animal blood. <i>BMJ Global Health</i> , 2017, 2, e000198.	4.7	69
21	Core commitments for field trials of gene drive organisms. <i>Science</i> , 2020, 370, 1417-1419.	12.6	67
22	A transcomplementing gene drive provides a flexible platform for laboratory investigation and potential field deployment. <i>Nature Communications</i> , 2020, 11, 352.	12.8	61
23	Toward the Definition of Efficacy and Safety Criteria for Advancing Gene Drive-Modified Mosquitoes to Field Testing. <i>Vector-Borne and Zoonotic Diseases</i> , 2020, 20, 237-251.	1.5	60
24	<i>Semele</i> : A Killer-Male, Rescue-Female System for Suppression and Replacement of Insect Disease Vector Populations. <i>Genetics</i> , 2011, 187, 535-551.	2.9	55
25	Inherently confinable split-drive systems in <i>Drosophila</i> . <i>Nature Communications</i> , 2021, 12, 1480.	12.8	55
26	Measuring, manipulating and exploiting behaviours of adult mosquitoes to optimise malaria vector control impact. <i>BMJ Global Health</i> , 2017, 2, e000212.	4.7	54
27	Active Genetic Neutralizing Elements for Halting or Deleting Gene Drives. <i>Molecular Cell</i> , 2020, 80, 246-262.e4.	9.7	54
28	MGD _{riv} E: A modular simulation framework for the spread of gene drives through spatially explicit mosquito populations. <i>Methods in Ecology and Evolution</i> , 2020, 11, 229-239.	5.2	53
29	Progress towards engineering gene drives for population control. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	51
30	Genome-wide divergence among invasive populations of <i>Aedes aegypti</i> in California. <i>BMC Genomics</i> , 2019, 20, 204.	2.8	44
31	Key traveller groups of relevance to spatial malaria transmission: a survey of movement patterns in four sub-Saharan African countries. <i>Malaria Journal</i> , 2016, 15, 200.	2.3	43
32	Mathematical models of human mobility of relevance to malaria transmission in Africa. <i>Scientific Reports</i> , 2018, 8, 7713.	3.3	43
33	Inverse Medea as a Novel Gene Drive System for Local Population Replacement: A Theoretical Analysis. <i>Journal of Heredity</i> , 2011, 102, 336-341.	2.4	42
34	A confinable home-and-rescue gene drive for population modification. <i>ELife</i> , 2021, 10, .	6.0	42
35	Gene Drive Strategies for Population Replacement. , 2016, , 169-200.		40
36	Perspectives of people in Mali toward genetically-modified mosquitoes for malaria control. <i>Malaria Journal</i> , 2010, 9, 128.	2.3	39

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37	Winning the Tug-of-War Between Effector Gene Design and Pathogen Evolution in Vector Population Replacement Strategies. <i>Frontiers in Genetics</i> , 2019, 10, 1072.	2.3	39
38	GENERAL PRINCIPLES OF SINGLE-CONSTRUCT CHROMOSOMAL GENE DRIVE. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 2150-2166.	2.3	37
39	Quantifying the mosquito's sweet tooth: modelling the effectiveness of attractive toxic sugar baits (ATSB) for malaria vector control. <i>Malaria Journal</i> , 2013, 12, 291.	2.3	37
40	Recommendations for Laboratory Containment and Management of Gene Drive Systems in Arthropods. <i>Vector-Borne and Zoonotic Diseases</i> , 2018, 18, 2-13.	1.5	37
41	Is outdoor vector control needed for malaria elimination? An individual-based modelling study. <i>Malaria Journal</i> , 2017, 16, 266.	2.3	32
42	The interplay of climate, intervention and imported cases as determinants of the 2014 dengue outbreak in Guangzhou. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005701.	3.0	31
43	MGDrive 2: A simulation framework for gene drive systems incorporating seasonality and epidemiological dynamics. <i>PLoS Computational Biology</i> , 2021, 17, e1009030.	3.2	28
44	Attacking the mosquito on multiple fronts: Insights from the Vector Control Optimization Model (VCOM) for malaria elimination. <i>PLoS ONE</i> , 2017, 12, e0187680.	2.5	28
45	Modeling confinement and reversibility of threshold-dependent gene drive systems in spatially-explicit <i>Aedes aegypti</i> populations. <i>BMC Biology</i> , 2020, 18, 50.	3.8	27
46	Medusa: A Novel Gene Drive System for Confined Suppression of Insect Populations. <i>PLoS ONE</i> , 2014, 9, e102694.	2.5	27
47	Estimating the potential impact of Attractive Targeted Sugar Baits (ATSBs) as a new vector control tool for <i>Plasmodium falciparum</i> malaria. <i>Malaria Journal</i> , 2021, 20, 151.	2.3	25
48	The Hitchhiking Parasite: Why Human Movement Matters to Malaria Transmission and What We Can Do About It. <i>Trends in Parasitology</i> , 2016, 32, 752-755.	3.3	21
49	Engineered reproductively isolated species drive reversible population replacement. <i>Nature Communications</i> , 2021, 12, 3281.	12.8	21
50	Reversing insecticide resistance with allelic-drive in <i>Drosophila melanogaster</i> . <i>Nature Communications</i> , 2022, 13, 291.	12.8	21
51	Vector bionomics and vectorial capacity as emergent properties of mosquito behaviors and ecology. <i>PLoS Computational Biology</i> , 2020, 16, e1007446.	3.2	20
52	Gene drive strategies of pest control in agricultural systems: Challenges and opportunities. <i>Evolutionary Applications</i> , 2021, 14, 2162-2178.	3.1	17
53	Modelling optimum use of attractive toxic sugar bait stations for effective malaria vector control in Africa. <i>Malaria Journal</i> , 2015, 14, 492.	2.3	16
54	The toxin and antidote puzzle. <i>Bioengineered Bugs</i> , 2011, 2, 235-240.	1.7	15

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55	A spatial individual-based model predicting a great impact of copious sugar sources and resting sites on survival of <i>Anopheles gambiae</i> and malaria parasite transmission. <i>Malaria Journal</i> , 2015, 14, 59.	2.3	14
56	Application of the Relationship-Based Model to Engagement for Field Trials of Genetically Engineered Malaria Vectors. <i>American Journal of Tropical Medicine and Hygiene</i> , 2020, , .	1.4	13
57	Reply to "Concerns about the feasibility of using "precision guided sterile males" to control insects"™. <i>Nature Communications</i> , 2019, 10, 3955.	12.8	11
58	Monitoring Needs for Gene Drive Mosquito Projects: Lessons From Vector Control Field Trials and Invasive Species. <i>Frontiers in Genetics</i> , 2021, 12, 780327.	2.3	11
59	Population modification strategies for malaria vector control are uniquely resilient to observed levels of gene drive resistance alleles. <i>BioEssays</i> , 2021, 43, 2000282.	2.5	9
60	Exploiting a Y chromosome-linked Cas9 for sex selection and gene drive. <i>Nature Communications</i> , 2021, 12, 7202.	12.8	9
61	Spatio-temporal associations between deforestation and malaria incidence in Lao PDR. <i>ELife</i> , 2021, 10, .	6.0	7
62	Translating gene drive science to promote linguistic diversity in community and stakeholder engagement. <i>Global Public Health</i> , 2020, 15, 1551-1565.	2.0	6
63	New genotype invasion of dengue virus serotype 1 drove massive outbreak in Guangzhou, China. <i>Parasites and Vectors</i> , 2021, 14, 126.	2.5	6
64	A branching process for the early spread of a transposable element in a diploid population. <i>Journal of Mathematical Biology</i> , 2008, 57, 811-840.	1.9	5
65	Household-level risk factors for <i>Aedes aegypti</i> pupal density in Guayaquil, Ecuador. <i>Parasites and Vectors</i> , 2021, 14, 458.	2.5	5
66	A Bayesian Heterogeneous Analysis of Variance Approach to Inferring Recent Selective Sweeps. <i>Genetics</i> , 2006, 173, 2357-2370.	2.9	4
67	Prediction of dengue annual incidence using seasonal climate variability in Bangladesh between 2000 and 2018. <i>PLOS Global Public Health</i> , 2022, 2, e0000047.	1.6	4
68	Estimating the elimination feasibility in the 'end game' of control efforts for parasites subjected to regular mass drug administration: Methods and their application to schistosomiasis. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006794.	3.0	3
69	Target Product Profiles for Mosquito Gene Drives: Incorporating Insights From Mathematical Models. <i>Frontiers in Tropical Diseases</i> , 2022, 3, .	1.4	3
70	Population size estimation of seasonal forest-going populations in southern Lao PDR. <i>Scientific Reports</i> , 2021, 11, 14816.	3.3	1
71	Field Trials of Gene Drive Mosquitoes: Lessons from Releases of Genetically Sterile Males and <i>Wolbachia</i> -infected Mosquitoes. , 2021, , 21-41.		1
72	Vector bionomics and vectorial capacity as emergent properties of mosquito behaviors and ecology. , 2020, 16, e1007446.		0

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73	Vector bionomics and vectorial capacity as emergent properties of mosquito behaviors and ecology. , 2020, 16, e1007446.		0
74	Vector bionomics and vectorial capacity as emergent properties of mosquito behaviors and ecology. , 2020, 16, e1007446.		0
75	Vector bionomics and vectorial capacity as emergent properties of mosquito behaviors and ecology. , 2020, 16, e1007446.		0