Tony Nolan

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3823838/publications.pdf

Version: 2024-02-01

55 papers	5,034 citations	172457 29 h-index	161849 54 g-index
67 all docs	67 docs citations	67 times ranked	4163 citing authors

#	Article	IF	Citations
1	A CRISPR-Cas9 gene drive system targeting female reproduction in the malaria mosquito vector Anopheles gambiae. Nature Biotechnology, 2016, 34, 78-83.	17.5	985
2	A CRISPRâ€“Cas9 gene drive targeting doublesex causes complete population suppression in caged Anopheles gambiae mosquitoes. Nature Biotechnology, 2018, 36, 1062-1066.	17.5	648
3	Highly evolvable malaria vectors: The genomes of 16 Anopheles mosquitoes. Science, 2015, 347, 1258522.	12.6	492
4	Stable germline transformation of the malaria mosquito Anopheles stephensi. Nature, 2000, 405, 959-962.	27.8	344
5	The creation and selection of mutations resistant to a gene drive over multiple generations in the malaria mosquito. PLoS Genetics, 2017, 13, e1007039.	3.5	243
6	A comprehensive gene expression atlas of sex- and tissue-specificity in the malaria vector, Anopheles gambiae. BMC Genomics, 2011, 12, 296.	2.8	169
7	Bee Venom Phospholipase Inhibits Malaria Parasite Development in Transgenic Mosquitoes. Journal of Biological Chemistry, 2002, 277, 40839-40843.	3.4	168
8	A CRISPR-Cas9 sex-ratio distortion system for genetic control. Scientific Reports, 2016, 6, 31139.	3.3	160
9	A male-biased sex-distorter gene drive for the human malaria vector Anopheles gambiae. Nature Biotechnology, 2020, 38, 1054-1060.	17.5	153
10	The post-transcriptional gene silencing machinery functions independently of DNA methylation to repress a LINE1-like retrotransposon in Neurospora crassa. Nucleic Acids Research, 2005, 33, 1564-1573.	14.5	97
11	Tools forAnopheles gambiaeTransgenesis. G3: Genes, Genomes, Genetics, 2015, 5, 1151-1163.	1.8	95
12	Radical remodeling of the Y chromosome in a recent radiation of malaria mosquitoes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2114-23.	7.1	92
13	piggyBac-mediated Germline Transformation of the Malaria Mosquito Anopheles stephensi Using the Red Fluorescent Protein dsRED as a Selectable Marker. Journal of Biological Chemistry, 2002, 277, 8759-8762.	3.4	87
14	Transcription Regulation of Sex-Biased Genes during Ontogeny in the Malaria Vector Anopheles gambiae. PLoS ONE, 2011, 6, e21572.	2.5	82
15	Regulating the expression of gene drives is key to increasing their invasive potential and the mitigation of resistance. PLoS Genetics, 2021, 17, e1009321.	3.5	72
16	Phenylalanine Metabolism Regulates Reproduction and Parasite Melanization in the Malaria Mosquito. PLoS ONE, 2014, 9, e84865.	2.5	65
17	Requirements for Driving Antipathogen Effector Genes into Populations of Disease Vectors by Homing. Genetics, 2017, 205, 1587-1596.	2.9	62
18	Toward Anopheles transformation: Minos element activity in anopheline cells and embryos. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 2157-2162.	7.1	61

#	Article	IF	Citations
19	Rapid evolution of female-biased genes among four species of Anopheles malaria mosquitoes. Genome Research, 2017, 27, 1536-1548.	5.5	60
20	Toward the Definition of Efficacy and Safety Criteria for Advancing Gene Drive-Modified Mosquitoes to Field Testing. Vector-Borne and Zoonotic Diseases, 2020, 20, 237-251.	1.5	60
21	Gene-drive suppression of mosquito populations in large cages as a bridge between lab and field. Nature Communications, 2021, 12, 4589.	12.8	59
22	Disruption of aminergic signalling reveals novel compounds with distinct inhibitory effects on mosquito reproduction, locomotor function and survival. Scientific Reports, 2014, 4, 5526.	3.3	49
23	Developing transgenic Anopheles mosquitoes for the sterile insect technique. Genetica, 2011, 139, 33-39.	1.1	44
24	The germline of the malaria mosquito produces abundant miRNAs, endo-siRNAs, piRNAs and 29-nt small RNAs. BMC Genomics, 2015, 16, 100.	2.8	44
25	Analysis of Two Novel Midgut-Specific Promoters Driving Transgene Expression in Anopheles stephensi Mosquitoes. PLoS ONE, 2011, 6, e16471.	2.5	40
26	Gene drive for population genetic control: non-functional resistance and parental effects. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191586.	2.6	39
27	Mosquito Transgenic Technologies to Reduce Plasmodium Transmission. Methods in Molecular Biology, 2012, 923, 601-622.	0.9	35
28	Control of malaria-transmitting mosquitoes using gene drives. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20190803.	4.0	35
29	An Anopheles gambiae salivary gland promoter analysis in Drosophila melanogaster and Anopheles stephensi. Insect Molecular Biology, 2005, 14, 207-216.	2.0	34
30	Homology effects inNeurospora crassa. FEMS Microbiology Letters, 2006, 254, 182-189.	1.8	34
31	The RNA-dependent RNA polymerase essential for post-transcriptional gene silencing in Neurospora crassa interacts with replication protein A. Nucleic Acids Research, 2008, 36, 532-538.	14.5	32
32	Reprogramming homing endonuclease specificity through computational design and directed evolution. Nucleic Acids Research, 2014, 42, 2564-2576.	14.5	31
33	Deciphering the olfactory repertoire of the tiger mosquito Aedes albopictus. BMC Genomics, 2017, 18, 770.	2.8	30
34	A mosquito small RNA genomics resource reveals dynamic evolution and host responses to viruses and transposons. Genome Research, 2021, 31, 512-528.	5.5	29
35	The Anopheles FBN9 immune factor mediates Plasmodium species-specific defense through transgenic fat body expression. Developmental and Comparative Immunology, 2017, 67, 257-265.	2.3	28
36	CRISPR/Cas9 modified An. gambiae carrying kdr mutation L1014F functionally validate its contribution in insecticide resistance and combined effect with metabolic enzymes. PLoS Genetics, 2021, 17, e1009556.	3.5	27

#	Article	IF	Citations
37	High-resolution transcriptional profiling of Anopheles gambiae spermatogenesis reveals mechanisms of sex chromosome regulation. Scientific Reports, 2019, 9, 14841.	3.3	26
38	Resistance to a CRISPR-based gene drive at an evolutionarily conserved site is revealed by mimicking genotype fixation. PLoS Genetics, 2021, 17, e1009740.	3.5	21
39	Cross-Species Y Chromosome Function Between Malaria Vectors of the Anopheles gambiae Species Complex. Genetics, 2017, 207, 729-740.	2.9	18
40	Post-integration behavior of a Minos transposon in the malaria mosquito Anopheles stephensi. Molecular Genetics and Genomics, 2007, 278, 575-584.	2.1	17
41	Nuclease-based gene drives, an innovative tool for insect vector control: advantages and challenges of the technology. Current Opinion in Insect Science, 2020, 39, 77-83.	4.4	17
42	Detecting the population dynamics of an autosomal sex ratio distorter transgene in malaria vector mosquitoes. Journal of Applied Ecology, 2020, 57, 2086-2096.	4.0	14
43	Transcript profiles of long- and short-lived adults implicate protein synthesis in evolved differences in ageing in the nematode Strongyloides ratti. Mechanisms of Ageing and Development, 2009, 130, 167-172.	4.6	12
44	Crystallographic analyses illustrate significant plasticity and efficient recoding of meganuclease target specificity. Nucleic Acids Research, 2017, 45, 8621-8634.	14.5	12
45	Introgression of a synthetic sex ratio distortion system from Anopheles gambiae into Anopheles arabiensis. Scientific Reports, 2019, 9, 5158.	3.3	11
46	Molecular tools and genetic markers for the generation of transgenic sexing strains in Anopheline mosquitoes. Parasites and Vectors, 2018, 11, 660.	2.5	10
47	CRISPR-mediated knock-in of transgenes into the malaria vector Anopheles funestus. G3: Genes, Genomes, Genetics, 2021, 11, .	1.8	8
48	Anopheles gambiae Genome Conservation as a Resource for Rational Gene Drive Target Site Selection. Insects, 2021, 12, 97.	2.2	8
49	Transcriptional variation of sensory-related genes in natural populations of Aedes albopictus. BMC Genomics, 2020, 21, 547.	2.8	6
50	The long hand of the small RNAs reaches into several levels of gene regulation. Biochemistry and Cell Biology, 2004, 82, 472-481.	2.0	4
51	Identifying an essential interaction between malaria parasites and erythrocytes unlocks the door to promising vaccine targets. Pathogens and Global Health, 2012, 106, 64-64.	2.3	4
52	Ultra-conserved sequences in the genomes of highly diverse Anopheles mosquitoes, with implications for malaria vector control. G3: Genes, Genomes, Genetics, 2021, 11, .	1.8	3
53	How to handle gene drives in arthropods?. Pathogens and Global Health, 2017, 111, 403-403.	2.3	0
54	Safe Driving: CRISPR and the Gene Drive Landscape. CRISPR Journal, 2018, 1, 16-18.	2.9	0

#	Article	IF	Citations
55	Sex-, tissue- and stage-specific transgene expression.. , 2014, , 29-50.		0