

Omar Akbari

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5675936/omar-akbari-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers

3,247
citations

31
h-index

54
g-index

131
ext. papers

4,383
ext. citations

8.8
avg, IF

5.85
L-index

#	Paper	IF	Citations
119	CRISPR Diagnostics: Advances toward the Point of Care.. <i>Biochemistry</i> , 2022 ,	3.2	1
118	California Residents' Perceptions of Gene Drive Systems to Control Mosquito-Borne Disease.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 848707	5.8	1
117	CRISPR-Mediated Genome Engineering in <i>Aedes aegypti</i> . <i>Methods in Molecular Biology</i> , 2022 , 23-51	1.4	0
116	Transgenic refractory <i>Aedes aegypti</i> lines are resistant to multiple serotypes of dengue virus.. <i>Scientific Reports</i> , 2021 , 11, 23865	4.9	1
115	Human attractive cues and mosquito host-seeking behavior. <i>Trends in Parasitology</i> , 2021 ,	6.4	4
114	Genetically Encoded CRISPR Components Yield Efficient Gene Editing in the Invasive Pest. <i>CRISPR Journal</i> , 2021 , 4, 739-751	2.5	4
113	Development of a Rapid and Sensitive CasRx-Based Diagnostic Assay for SARS-CoV-2. <i>ACS Sensors</i> , 2021 , 6, 3957-3966	9.2	2
112	Parasitic nematode fatty acid- and retinol-binding proteins compromise host immunity by interfering with host lipid signaling pathways. <i>PLoS Pathogens</i> , 2021 , 17, e1010027	7.6	1
111	Inherently confinable split-drive systems in <i>Drosophila</i> . <i>Nature Communications</i> , 2021 , 12, 1480	17.4	24
110	Mechanistically comparing reproductive manipulations caused by selfish chromosomes and bacterial symbionts. <i>Heredity</i> , 2021 , 126, 707-716	3.6	1
109	Suppression of female fertility in with a CRISPR-targeted male-sterile mutation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	8
108	Spatial control of gene expression in flies using bacterially derived binary transactivation systems. <i>Insect Molecular Biology</i> , 2021 , 30, 461-471	3.4	1
107	Engineered reproductively isolated species drive reversible population replacement. <i>Nature Communications</i> , 2021 , 12, 3281	17.4	4
106	Combating mosquito-borne diseases using genetic control technologies. <i>Nature Communications</i> , 2021 , 12, 4388	17.4	11
105	A mosquito small RNA genomics resource reveals dynamic evolution and host responses to viruses and transposons. <i>Genome Research</i> , 2021 , 31, 512-528	9.7	11
104	Ubiquitous and Tissue-specific RNA Targeting in <i>Drosophila Melanogaster</i> using CRISPR/CasRx. <i>Journal of Visualized Experiments</i> , 2021 ,	1.6	1
103	A confinable home-and-rescue gene drive for population modification. <i>ELife</i> , 2021 , 10,	8.9	15

102	Oxitec and MosquitoMate in the United States: lessons for the future of gene drive mosquito control. <i>Pathogens and Global Health</i> , 2021 , 115, 365-376	3.1	2
101	Suppressing mosquito populations with precision guided sterile males. <i>Nature Communications</i> , 2021 , 12, 5374	17.4	14
100	Exploiting a Y chromosome-linked Cas9 for sex selection and gene drive. <i>Nature Communications</i> , 2021 , 12, 7202	17.4	0
99	Interdisciplinary development of a standardized introduction to gene drives for lay audiences. <i>BMC Medical Research Methodology</i> , 2020 , 20, 273	4.7	6
98	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	7.3	15
97	The olfactory basis of orchid pollination by mosquitoes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 708-716	11.5	49
96	Embryo Microinjection Techniques for Efficient Site-Specific Mutagenesis in <i>Culex quinquefasciatus</i> . <i>Journal of Visualized Experiments</i> , 2020 ,	1.6	3
95	Programmable RNA Targeting Using CasRx in Flies. <i>CRISPR Journal</i> , 2020 , 3, 164-176	2.5	26
94	Translating gene drive science to promote linguistic diversity in community and stakeholder engagement. <i>Global Public Health</i> , 2020 , 15, 1551-1565	3.5	6
93	Broad dengue neutralization in mosquitoes expressing an engineered antibody. <i>PLoS Pathogens</i> , 2020 , 16, e1008103	7.6	36
92	A drug-inducible sex-separation technique for insects. <i>Nature Communications</i> , 2020 , 11, 2106	17.4	11
91	Targeting female flight for genetic control of mosquitoes. <i>PLoS Neglected Tropical Diseases</i> , 2020 , 14, e0008876	4.8	6
90	Diverse Defenses: A Perspective Comparing Dipteran Piwi-piRNA Pathways. <i>Cells</i> , 2020 , 9,	7.9	3
89	Development of a confinable gene drive system in the human disease vector. <i>ELife</i> , 2020 , 9,	8.9	82
88	A Sensitive, Rapid, and Portable CasRx-based Diagnostic Assay for SARS-CoV-2 2020 ,		7
87	Methods for the generation of heritable germline mutations in the disease vector <i>Culex quinquefasciatus</i> using clustered regularly interspaced short palindrome repeats-associated protein 9. <i>Insect Molecular Biology</i> , 2020 , 29, 214-220	3.4	15
86	Opinion: Standardizing the definition of gene drive. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 30864-30867	11.5	38
85	Germline mutagenesis of <i>Nasonia vitripennis</i> through ovarian delivery of CRISPR-Cas9 ribonucleoprotein. <i>Insect Molecular Biology</i> , 2020 , 29, 569-577	3.4	16

84	Progress towards engineering gene drives for population control. <i>Journal of Experimental Biology</i> , 2020 , 223,	3	29
83	The Developmental Transcriptome of , a Major Worldwide Human Disease Vector. <i>G3: Genes, Genomes, Genetics</i> , 2020 , 10, 1051-1062	3.2	16
82	Assessment of a Split Homing Based Gene Drive for Efficient Knockout of Multiple Genes. <i>G3: Genes, Genomes, Genetics</i> , 2020 , 10, 827-837	3.2	38
81	Active Genetic Neutralizing Elements for Halting or Deleting Gene Drives. <i>Molecular Cell</i> , 2020 , 80, 246-262	6.4	25
80	Improved reference genome of the arboviral vector <i>Aedes albopictus</i> . <i>Genome Biology</i> , 2020 , 21, 215	18.3	26
79	A day in the life of a mosquito insectary team: pushing for solutions to mosquito-borne diseases. <i>Lab Animal</i> , 2020 , 49, 241-243	0.4	0
78	Core commitments for field trials of gene drive organisms. <i>Science</i> , 2020 , 370, 1417-1419	33.3	35
77	Genome elimination mediated by gene expression from a selfish chromosome. <i>Science Advances</i> , 2020 , 6, eaaz9808	14.3	24
76	Broad dengue neutralization in mosquitoes expressing an engineered antibody 2020 , 16, e1008103		
75	Broad dengue neutralization in mosquitoes expressing an engineered antibody 2020 , 16, e1008103		
74	Broad dengue neutralization in mosquitoes expressing an engineered antibody 2020 , 16, e1008103		
73	Broad dengue neutralization in mosquitoes expressing an engineered antibody 2020 , 16, e1008103		
72	Reply to Concerns about the feasibility of using "precision guided sterile males" to control insects <i>Nature Communications</i> , 2019 , 10, 3955	17.4	4
71	Malaria eradication within a generation: ambitious, achievable, and necessary. <i>Lancet, The</i> , 2019 , 394, 1056-1112	40	130
70	Live calcium imaging of <i>Aedes aegypti</i> neuronal tissues reveals differential importance of chemosensory systems for life-history-specific foraging strategies. <i>BMC Neuroscience</i> , 2019 , 20, 27	3.2	16
69	Sequence Expression of Supernumerary B Chromosomes: Function or Fluff?. <i>Genes</i> , 2019 , 10,	4.2	14
68	Engineered resistance to Zika virus in transgenic expressing a polycistronic cluster of synthetic small RNAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3656-3661	11.5	53
67	Site-specific transgenesis of the <i>Drosophila melanogaster</i> Y-chromosome using CRISPR/Cas9. <i>Insect Molecular Biology</i> , 2019 , 28, 65-73	3.4	12

66	Visual-Olfactory Integration in the Human Disease Vector Mosquito <i>Aedes aegypti</i> . <i>Current Biology</i> , 2019 , 29, 2509-2516.e5	6.3	37
65	A typology of community and stakeholder engagement based on documented examples in the field of novel vector control. <i>PLoS Neglected Tropical Diseases</i> , 2019 , 13, e0007863	4.8	14
64	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	4.5	24
63	Transforming insect population control with precision guided sterile males with demonstration in flies. <i>Nature Communications</i> , 2019 , 10, 84	17.4	85
62	Synthetically engineered gene drive system in the worldwide crop pest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4725-4730	11.5	73
61	Engineered Reciprocal Chromosome Translocations Drive High Threshold, Reversible Population Replacement in <i>Drosophila</i> . <i>ACS Synthetic Biology</i> , 2018 , 7, 1359-1370	5.7	53
60	Modulation of Host Learning in <i>Aedes aegypti</i> Mosquitoes. <i>Current Biology</i> , 2018 , 28, 333-344.e8	6.3	47
59	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	4.9	58
58	Highly Efficient Site-Specific Mutagenesis in Malaria Mosquitoes Using CRISPR. <i>G3: Genes, Genomes, Genetics</i> , 2018 , 8, 653-658	3.2	24
57	Improved reference genome of <i>Aedes aegypti</i> informs arbovirus vector control. <i>Nature</i> , 2018 , 563, 501-507	50.4	235
56	Gene editing technologies and applications for insects. <i>Current Opinion in Insect Science</i> , 2018 , 28, 66-72	5.1	38
55	Generation of heritable germline mutations in the jewel wasp <i>Nasonia vitripennis</i> using CRISPR/Cas9. <i>Scientific Reports</i> , 2017 , 7, 901	4.9	47
54	Overcoming evolved resistance to population-suppressing homing-based gene drives. <i>Scientific Reports</i> , 2017 , 7, 3776	4.9	113
53	Unique sequence organization and small RNA expression of a "selfish" B chromosome. <i>Chromosoma</i> , 2017 , 126, 753-768	2.8	16
52	Rules of the road for insect gene drive research and testing. <i>Nature Biotechnology</i> , 2017 , 35, 716-718	44.5	62
51	Germline Cas9 expression yields highly efficient genome engineering in a major worldwide disease vector. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E10540-E10549	11.5	105
50	Embryo Microinjection and Transplantation Technique for <i>Nasonia vitripennis</i> Genome Manipulation. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	5
49	Gene drives may be the next step towards sustainable control of malaria. <i>Pathogens and Global Health</i> , 2017 , 111, 399-400	3.1	10

48	Cheating evolution: engineering gene drives to manipulate the fate of wild populations. <i>Nature Reviews Genetics</i> , 2016 , 17, 146-59	30.1	283
47	Gene Drive Strategies for Population Replacement 2016 , 169-200		33
46	Radical remodeling of the Y chromosome in a recent radiation of malaria mosquitoes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E2114-23	11.5	63
45	Male-Killing Spiroplasma Alters Behavior of the Dosage Compensation Complex during <i>Drosophila melanogaster</i> Embryogenesis. <i>Current Biology</i> , 2016 , 26, 1339-45	6.3	18
44	Mapping a multiplexed zoo of mRNA expression. <i>Development (Cambridge)</i> , 2016 , 143, 3632-3637	6.6	95
43	BIOSAFETY. Safeguarding gene drive experiments in the laboratory. <i>Science</i> , 2015 , 349, 927-9	33.3	215
42	Vectored antibody gene delivery mediates long-term contraception. <i>Current Biology</i> , 2015 , 25, R820-2	6.3	12
41	Identification of Genes Uniquely Expressed in the Germ-Line Tissues of the Jewel Wasp <i>Nasonia vitripennis</i> . <i>G3: Genes, Genomes, Genetics</i> , 2015 , 5, 2647-53	3.2	13
40	Identification of germline transcriptional regulatory elements in <i>Aedes aegypti</i> . <i>Scientific Reports</i> , 2014 , 4, 3954	4.9	25
39	Novel synthetic Medea selfish genetic elements drive population replacement in <i>Drosophila</i> ; a theoretical exploration of Medea-dependent population suppression. <i>ACS Synthetic Biology</i> , 2014 , 3, 915-28	5.7	71
38	Sex ratio manipulation for insect population control. 2014 , 83-100		11
37	A synthetic gene drive system for local, reversible modification and suppression of insect populations. <i>Current Biology</i> , 2013 , 23, 671-7	6.3	127
36	The developmental transcriptome of the mosquito <i>Aedes aegypti</i> , an invasive species and major arbovirus vector. <i>G3: Genes, Genomes, Genetics</i> , 2013 , 3, 1493-509	3.2	122
35	Transcriptome profiling of <i>Nasonia vitripennis</i> testis reveals novel transcripts expressed from the selfish B chromosome, paternal sex ratio. <i>G3: Genes, Genomes, Genetics</i> , 2013 , 3, 1597-605	3.2	35
34	An Entry/Gateway cloning system for general expression of genes with molecular tags in <i>Drosophila melanogaster</i> . <i>BMC Cell Biology</i> , 2009 , 10, 8		26
33	A novel promoter-tethering element regulates enhancer-driven gene expression at the bithorax complex in the <i>Drosophila</i> embryo. <i>Development (Cambridge)</i> , 2008 , 135, 123-31	6.6	44
32	The abdominal-B promoter tethering element mediates promoter-enhancer specificity at the <i>Drosophila</i> bithorax complex. <i>Fly</i> , 2007 , 1, 337-9	1.3	11
31	Unraveling cis-regulatory mechanisms at the abdominal-A and Abdominal-B genes in the <i>Drosophila</i> bithorax complex. <i>Developmental Biology</i> , 2006 , 293, 294-304	3.1	36

30	Programmable RNA Targeting using CasRx in Flies		1
29	Synergistic Coding of Carbon Dioxide and a Human Sweat Odorant in the Mosquito Brain		2
28	Spatial control of gene expression in flies using bacterially derived binary transactivation systems		1
27	Broad Dengue Neutralization in Mosquitoes Expressing an Engineered Antibody. <i>SSRN Electronic Journal</i> ,	1	7
26	Live calcium imaging of <i>Aedes aegypti</i> neuronal tissues reveals differential importance of chemosensory systems for life-history-specific foraging strategies		3
25	Modeling confinement and reversibility of threshold-dependent gene drive systems in spatially-explicit <i>Aedes aegypti</i> populations		2
24	Improved reference genome of the arboviral vector <i>Aedes albopictus</i>		2
23	Engineered reciprocal chromosome translocations drive high threshold, reversible population replacement in <i>Drosophila</i>		8
22	Overcoming evolved resistance to population-suppressing homing-based gene drives		4
21	Germline Cas9 Expression Yields Highly Efficient Genome Engineering in a Major Worldwide Disease Vector, <i>Aedes aegypti</i>		10
20	Highly efficient site-specific mutagenesis in Malaria mosquitoes using CRISPR		2
19	Synthetically Engineered Medea Gene Drive System in the Worldwide Crop Pest, <i>D. sukuzii</i>		4
18	Can CRISPR-based gene drive be confined in the wild? A question for molecular and population biology		4
17	An integrated mosquito small RNA genomics resource reveals dynamic evolution and host responses to viruses and transposons		2
16	Germline mutagenesis of <i>Nasonia vitripennis</i> through ovarian delivery of CRISPR-Cas9 ribonucleoprotein		1
15	Engineered Reproductively Isolated Species Drive Reversible Population Replacement		2
14	A home and rescue gene drive efficiently spreads and persists in populations		8
13	Inherently confinable split-drive systems in <i>Drosophila</i>		4

12	A CRISPR endonuclease gene drive reveals two distinct mechanisms of inheritance bias	6
11	Improved <i>Aedes aegypti</i> mosquito reference genome assembly enables biological discovery and vector control	10
10	Engineered resistance to Zika virus in transgenic <i>Ae. aegypti</i> expressing a polycistronic cluster of synthetic miRNAs	2
9	Development of a Confinable Gene-Drive System in the Human Disease Vector, <i>Aedes aegypti</i>	9
8	Broad Dengue Neutralization in Mosquitoes Expressing an Engineered Antibody	5
7	Assessment of a split homing based gene drive for efficient knockout of multiple genes	3
6	The Developmental Transcriptome of <i>Ae. albopictus</i> , a Major Worldwide Human Disease Vector	2
5	Genome Elimination Mediated by Gene Expression from a Selfish Chromosome	1
4	Eliminating Mosquitoes with Precision Guided Sterile Males	2
3	Eliminating Mosquitoes with Precision Guided Sterile Males	2
2	Temperature-Inducible Precision Guided Sterile Insect Technique	1
1	Parasitic nematode fatty acid- and retinol-binding proteins compromise host immunity by interfering with host lipid signaling pathways	2