Anna B Buchman

List of Publications by Year
in descending order

27 papers	1,333 citations	566801 15 h-index	642321 23 g-index
33 all docs	33 docs citations	33 times ranked	1097 citing authors

#	Article	IF	Citations
1	Reply to: Assessing the efficiency of Verilyâ€™s automated process for production and release of male Wolbachia-infected mosquitoes. Nature Biotechnology, 2022, 40, 1443-1446.	9.4	2
2	Ubiquitous and Tissue-specific RNA Targeting in Drosophila Melanogaster using CRISPR/CasRx. Journal of Visualized Experiments, 2021, , .	0.2	6
3	Inherently confinable split-drive systems in Drosophila. Nature Communications, 2021, 12, 1480.	5.8	55
4	Engineered reproductively isolated species drive reversible population replacement. Nature Communications, 2021, 12, 3281.	5.8	21
5	Genetically Encoded CRISPR Components Yield Efficient Gene Editing in the Invasive Pest <i>Drosophila suzukii</i>. CRISPR Journal, 2021, 4, 739-751.	1.4	10
6	Parasitic nematode fatty acid- and retinol-binding proteins compromise host immunity by interfering with host lipid signaling pathways. PLoS Pathogens, 2021, 17, e1010027.	2.1	6
7	Exploiting a Y chromosome-linked Cas9 for sex selection and gene drive. Nature Communications, 2021, 12, 7202.	5.8	9
8	Resistance to natural and synthetic gene drive systems. Journal of Evolutionary Biology, 2020, 33, 1345-1360.	0.8	43
9	Assessment of a Split Homing Based Gene Drive for Efficient Knockout of Multiple Genes. G3: Genes, Genomes, Genetics, 2020, 10, 827-837.	0.8	67
10	Active Genetic Neutralizing Elements for Halting or Deleting Gene Drives. Molecular Cell, 2020, 80, 246-262.e4.	4.5	54
11	Interdisciplinary development of a standardized introduction to gene drives for lay audiences. BMC Medical Research Methodology, 2020, 20, 273.	1.4	9
12	Programmable RNA Targeting Using CasRx in Flies. CRISPR Journal, 2020, 3, 164-176.	1.4	63
13	Broad dengue neutralization in mosquitoes expressing an engineered antibody. PLoS Pathogens, 2020, 16, e1008103.	2.1	69
14	Broad dengue neutralization in mosquitoes expressing an engineered antibody. , 2020, 16, e1008103.		0
15	Broad dengue neutralization in mosquitoes expressing an engineered antibody. , 2020, 16, e1008103.		0
16	Broad dengue neutralization in mosquitoes expressing an engineered antibody. , 2020, 16, e1008103.		0
17	Broad dengue neutralization in mosquitoes expressing an engineered antibody. , 2020, 16, e1008103.		0
18	Siteâ€specific transgenesis of the <i>Drosophila melanogaster </i>Yâ€chromosome using CRISPR/Cas9. Insect Molecular Biology, 2019, 28, 65-73.	1.0	20

#	Article	IF	Citations
19	Live calcium imaging of Aedes aegypti neuronal tissues reveals differential importance of chemosensory systems for life-history-specific foraging strategies. BMC Neuroscience, 2019, 20, 27.	0.8	21
20	Engineered resistance to Zika virus in transgenic <i>Aedes aegypti</i> expressing a polycistronic cluster of synthetic small RNAs. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3656-3661.	3.3	83
21	Synthetically engineered <i>Medea</i> gene drive system in the worldwide crop pest <i>Drosophila suzukii</i>. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4725-4730.	3.3	109
22	Engineered Reciprocal Chromosome Translocations Drive High Threshold, Reversible Population Replacement in Drosophila. ACS Synthetic Biology, 2018, 7, 1359-1370.	1.9	72
23	Overcoming evolved resistance to population-suppressing homing-based gene drives. Scientific Reports, 2017, 7, 3776.	1.6	142
24	Cheating evolution: engineering gene drives to manipulate the fate of wild populations. Nature Reviews Genetics, 2016, 17, 146-159.	7.7	381
25	Molecular Analysis of Hybridization between the Box Turtles Terrapene carolina and T. ornata. Copeia, 2011, 2011, 270-277.	1.4	12
26	<i>Semele</i>: A Killer-Male, Rescue-Female System for Suppression and Replacement of Insect Disease Vector Populations. Genetics, 2011, 187, 535-551.	1.2	55
27	Characterization of ten novel microsatellite loci for the threatened Ornate Box Turtle, Terrapene ornata. Conservation Genetics Resources, 2009, 1, 141.	0.4	4