Valentino Matteo Gantz

List of Publications by Year
in descending order

21 papers	2,574 citations	566801 15 h-index	676716 22 g-index
32 all docs	32 docs citations	32 times ranked	1829 citing authors

#	Article	IF	Citations
1	Highly efficient Cas9-mediated gene drive for population modification of the malaria vector mosquitoAnopheles stephensi. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6736-43.	3.3	841
2	The mutagenic chain reaction: A method for converting heterozygous to homozygous mutations. Science, 2015, 348, 442-444.	6.0	534
3	Safeguarding gene drive experiments in the laboratory. Science, 2015, 349, 927-929.	6.0	254
4	Super-Mendelian inheritance mediated by CRISPRâ€“Cas9 in the female mouse germline. Nature, 2019, 566, 105-109.	13.7	206
5	The dawn of active genetics. BioEssays, 2016, 38, 50-63.	1.2	114
6	Efficient population modification gene-drive rescue system in the malaria mosquito Anopheles stephensi. Nature Communications, 2020, 11, 5553.	5.8	110
7	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
8	Gene editing technologies and applications for insects. Current Opinion in Insect Science, 2018, 28, 66-72.	2.2	66
9	A transcomplementing gene drive provides a flexible platform for laboratory investigation and potential field deployment. Nature Communications, 2020, 11, 352.	5.8	61
10	Efficient allelic-drive in Drosophila. Nature Communications, 2019, 10, 1640.	5.8	59
11	Active Genetic Neutralizing Elements for Halting or Deleting Gene Drives. Molecular Cell, 2020, 80, 246-262.e4.	4.5	54
12	Small-Molecule Control of Super-Mendelian Inheritance in Gene Drives. Cell Reports, 2020, 31, 107841.	2.9	39
13	CRISPR/Cas9 and active genetics-based trans-species replacement of the endogenous Drosophila kni-L2 CRM reveals unexpected complexity. ELife, 2017, 6, .	2.8	30
14	Meiotic Cas9 expression mediates gene conversion in the male and female mouse germline. PLoS Biology, 2021, 19, e3001478.	2.6	29
15	Optimized CRISPR tools and site-directed transgenesis towards gene drive development in Culex quinquefasciatus mosquitoes. Nature Communications, 2021, 12, 2960.	5.8	25
16	Targeting double-strand break indel byproducts with secondary guide RNAs improves Cas9 HDR-mediated genome editing efficiencies. Nature Communications, 2022, 13, 2351.	5.8	11
17	Active genetics comes alive. BioEssays, 2022, 44, .	1.2	8
18	CopyCatchers are versatile active genetic elements that detect and quantify inter-homolog somatic gene conversion. Nature Communications, 2021, 12, 2625.	5.8	7

#	Article	IF	Citations
19	Evaluation of Gene Knockouts by CRISPR as Potential Targets for the Genetic Engineering of the Mosquito Culex quinquefasciatus. CRISPR Journal, 2021, 4, 595-608.	1.4	6
20	Double-tap gene drive uses iterative genome targeting to help overcome resistance alleles. Nature Communications, 2022, 13, 2595.	5.8	6
21	A nickase Cas9 gene-drive system promotes super-Mendelian inheritance in Drosophila. Cell Reports, 2022, 39, 110843.	2.9	3