Ethan Bier

List of Publications by Year
in descending order

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66 papers	6,391 citations	126907 33 h-index	98798 67 g-index
78 all docs	78 docs citations	78 times ranked	6182 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.	7.1	841
2	A Systematic Analysis of Human Disease-Associated Gene Sequences In Drosophila melanogaster. Genome Research, 2001, 11, 1114-1125.	5.5	751
3	The mutagenic chain reaction: A method for converting heterozygous to homozygous mutations. Science, 2015, 348, 442-444.	12.6	534
4	Drosophila, the golden bug, emerges as a tool for human genetics. Nature Reviews Genetics, 2005, 6, 9-23.	16.3	521
5	Multiplex Detection of RNA Expression in Drosophila Embryos. Science, 2004, 305, 846-846.	12.6	350
6	Safeguarding gene drive experiments in the laboratory. Science, 2015, 349, 927-929.	12.6	254
7	BMP gradients: A paradigm for morphogen-mediated developmental patterning. Science, 2015, 348, aaa5838.	12.6	236
8	Super-Mendelian inheritance mediated by CRISPRâ€“Cas9 in the female mouse germline. Nature, 2019, 566, 105-109.	27.8	206
9	Formation of the BMP Activity Gradient in the Drosophila Embryo. Developmental Cell, 2005, 8, 915-924.	7.0	175
10	Drosophila, an emerging model for cardiac disease. Gene, 2004, 342, 1-11.	2.2	155
11	Advances in Engineering the Fly Genome with the CRISPR-Cas System. Genetics, 2018, 208, 1-18.	2.9	154
12	Xenopus chordin and Drosophila short gastrulation genes encode homologous proteins functioning in dorsal-ventral axis formation. Cell, 1995, 80, 19-20.	28.9	121
13	The dawn of active genetics. BioEssays, 2016, 38, 50-63.	2.5	114
14	Threshold-Dependent BMP-Mediated Repression: A Model for a Conserved Mechanism That Patterns the Neuroectoderm. PLoS Biology, 2006, 4, e313.	5.6	111
15	Efficient population modification gene-drive rescue system in the malaria mosquito Anopheles stephensi. Nature Communications, 2020, 11, 5553.	12.8	110
16	Creation of a Sog Morphogen Gradient in the Drosophila Embryo. Developmental Cell, 2002, 2, 91-101.	7.0	101
17	Anthrax toxins cooperatively inhibit endocytic recycling by the Rab11/Sec15 exocyst. Nature, 2010, 467, 854-858.	27.8	95
18	Gene drives gaining speed. Nature Reviews Genetics, 2022, 23, 5-22.	16.3	92

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19	Cholera Toxin Disrupts Barrier Function by Inhibiting Exocyst-Mediated Trafficking of Host Proteins to Intestinal Cell Junctions. Cell Host and Microbe, 2013, 14, 294-305.	11.0	82
20	Over-Expression of DSCAM and COL6A2 Cooperatively Generates Congenital Heart Defects. PLoS Genetics, 2011, 7, e1002344.	3.5	79
21	Hidden genomic features of an invasive malaria vector, Anopheles stephensi, revealed by a chromosome-level genome assembly. BMC Biology, 2021, 19, 28.	3.8	77
22	Rules of the road for insect gene drive research and testing. Nature Biotechnology, 2017, 35, 716-718.	17.5	74
23	RAB11-mediated trafficking in hostâ€"pathogen interactions. Nature Reviews Microbiology, 2014, 12, 624-634.	28.6	73
24	New insights into the biological effects of anthrax toxins: linking cellular to organismal responses. Microbes and Infection, 2012, 14, 97-118.	1.9	71
25	Drawing lines in the Drosophila wing: initiation of wing vein development. Current Opinion in Genetics and Development, 2000, 10, 393-398.	3.3	70
26	Assessment of a Split Homing Based Gene Drive for Efficient Knockout of Multiple Genes. G3: Genes, Genomes, Genetics, 2020, 10, 827-837.	1.8	67
27	A transcomplementing gene drive provides a flexible platform for laboratory investigation and potential field deployment. Nature Communications, 2020, 11, 352.	12.8	61
28	Efficient allelic-drive in Drosophila. Nature Communications, 2019, 10, 1640.	12.8	59
29	Inherently confinable split-drive systems in Drosophila. Nature Communications, 2021, 12, 1480.	12.8	55
30	Active Genetic Neutralizing Elements for Halting or Deleting Gene Drives. Molecular Cell, 2020, 80, 246-262.e4.	9.7	54
31	Activation of theknirpslocus links patterning to morphogenesis of the second wing vein inDrosophila. Development (Cambridge), 2003, 130, 235-248.	2.5	46
32	A bacterial gene-drive system efficiently edits and inactivates a high copy number antibiotic resistance locus. Nature Communications, 2019, 10, 5726.	12.8	44
33	From The Cover: Anthrax lethal factor and edema factor act on conserved targets in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3244-3249.	7.1	39
34	Localized activation of RTK/MAPK pathways during Drosophila development. BioEssays, 1998, 20, 189-194.	2.5	38
35	Deconstructing host-pathogen interactions inDrosophila. DMM Disease Models and Mechanisms, 2012, 5, 48-61.	2.4	36
36	Integrins modulate Sog activity in the Drosophila wing. Development (Cambridge), 2003, 130, 3851-3864.	2.5	32

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37	CRISPR/Cas9 and active genetics-based trans-species replacement of the endogenous Drosophila kni-L2 CRM reveals unexpected complexity. ELife, 2017, 6, .	6.0	30
38	Meiotic Cas9 expression mediates gene conversion in the male and female mouse germline. PLoS Biology, 2021, 19, e3001478.	5.6	29
39	Cysteine Repeat Domains and Adjacent Sequences Determine Distinct Bone Morphogenetic Protein Modulatory Activities of the Drosophila Sog Protein. Genetics, 2004, 166, 1323-1336.	2.9	24
40	A screen for dominant mutations applied to components in theDrosophilaEGF-R pathway. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3752-3757.	7.1	21
41	Reversing insecticide resistance with allelic-drive in Drosophila melanogaster. Nature Communications, 2022, 13, 291.	12.8	21
42	BMPs Regulate msx Gene Expression in the Dorsal Neuroectoderm of Drosophila and Vertebrates by Distinct Mechanisms. PLoS Genetics, 2014, 10, e1004625.	3.5	18
43	Gene length may contribute to graded transcriptional responses in the Drosophila embryo. Developmental Biology, 2011, 360, 230-240.	2.0	17
44	Innate Immune Interactions between Bacillus anthracis and Host Neutrophils. Frontiers in Cellular and Infection Microbiology, 2018, 8, 2.	3.9	16
45	dHIP14-dependent palmitoylation promotes secretion of the BMP antagonist Sog. Developmental Biology, 2010, 346, 1-10.	2.0	14
46	Influenza NS1 directly modulates Hedgehog signaling during infection. PLoS Pathogens, 2017, 13, e1006588.	4.7	14
47	High-resolution in situ analysis of Cas9 germline transcript distributions in gene-drive Anopheles mosquitoes. G3: Genes, Genomes, Genetics, 2022, 12, .	1.8	14
48	Intriguing Extracellular Regulation of BMP Signaling. Developmental Cell, 2008, 15, 176-177.	7.0	13
49	Application of the Relationship-Based Model to Engagement for Field Trials of Genetically Engineered Malaria Vectors. American Journal of Tropical Medicine and Hygiene, 2020, , .	1.4	13
50	Evolution of Development: Diversified Dorsoventral Patterning. Current Biology, 2011, 21, R591-R594.	3.9	11
51	Anthrax edema toxin disrupts distinct steps in Rab11-dependent junctional transport. PLoS Pathogens, 2017, 13, e1006603.	4.7	11
52	N-linked glycosylation restricts the function of short gastrulation to bind and shuttle BMPs. Development (Cambridge), 2018, 145, .	2.5	9
53	Ethical Considerations for Gene Drive: Challenges of Balancing Inclusion, Power and Perspectives. Frontiers in Bioengineering and Biotechnology, 2022, 10, 826727.	4.1	9
54	A unity of opposites. Nature, 1999, 398, 375-376.	27.8	8

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55	Driving to Safety: CRISPR-Based Genetic Approaches to Reducing Antibiotic Resistance. Trends in Genetics, 2021, 37, 745-757.	6.7	8
56	Active genetics comes alive. BioEssays, 2022, 44, .	2.5	8
57	Cas9/Nickase-induced allelic conversion by homologous chromosome-templated repair in Drosophila somatic cells. Science Advances, 2022, 8, .	10.3	8
58	SEGMENTATION OF NUCLEI IN CONFOCAL IMAGE STACKS USING PERFORMANCE BASED THRESHOLDING. , 2007, , .		7
59	CopyCatchers are versatile active genetic elements that detect and quantify inter-homolog somatic gene conversion. Nature Communications, 2021, 12, 2625.	12.8	7
60	Translating gene drive science to promote linguistic diversity in community and stakeholder engagement. Global Public Health, 2020, 15, 1551-1565.	2.0	6
61	A Drosophila Model for Clostridium difficile Toxin CDT Reveals Interactions with Multiple Effector Pathways. IScience, 2020, 23, 100865.	4.1	6
62	Antioxidants put Parkinson flies back in the PINK. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13269-13270.	7.1	5
63	Hedgehog: Linking Uracil to Innate Defense. Cell Host and Microbe, 2015, 17, 146-148.	11.0	4
64	Antioxidant proteins TSA and PAG interact synergistically with Presenilin to modulate Notch signaling in Drosophila. Protein and Cell, 2011, 2, 554-563.	11.0	3
65	Gene Editing and the War Against Malaria. American Scientist, 2020, 108, 162.	0.1	2
66	Dissecting the evolutionary role of the Hox gene proboscipedia in Drosophila mouthpart diversification by full locus replacement. Science Advances, 2021, 7, eabk1003.	10.3	2