

# Ethan Bier

## List of Publications by Year in descending order

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66  
papers

6,391  
citations

126708

33  
h-index

98622

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 mosquito <i>Anopheles stephensi</i> . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6736-43.	3.3	841
2	A Systematic Analysis of Human Disease-Associated Gene Sequences In <i>Drosophila melanogaster</i> . Genome Research, 2001, 11, 1114-1125.	2.4	751
3	The mutagenic chain reaction: A method for converting heterozygous to homozygous mutations. Science, 2015, 348, 442-444.	6.0	534
4	<i>Drosophila</i> , the golden bug, emerges as a tool for human genetics. Nature Reviews Genetics, 2005, 6, 9-23.	7.7	521
5	Multiplex Detection of RNA Expression in <i>Drosophila</i> Embryos. Science, 2004, 305, 846-846.	6.0	350
6	Safeguarding gene drive experiments in the laboratory. Science, 2015, 349, 927-929.	6.0	254
7	BMP gradients: A paradigm for morphogen-mediated developmental patterning. Science, 2015, 348, aaa5838.	6.0	236
8	Super-Mendelian inheritance mediated by CRISPR-Cas9 in the female mouse germline. Nature, 2019, 566, 105-109.	13.7	206
9	Formation of the BMP Activity Gradient in the <i>Drosophila</i> Embryo. Developmental Cell, 2005, 8, 915-924.	3.1	175
10	<i>Drosophila</i> , an emerging model for cardiac disease. Gene, 2004, 342, 1-11.	1.0	155
11	Advances in Engineering the Fly Genome with the CRISPR-Cas System. Genetics, 2018, 208, 1-18.	1.2	154
12	<i>Xenopus</i> chordin and <i>Drosophila</i> short gastrulation genes encode homologous proteins functioning in dorsal-ventral axis formation. Cell, 1995, 80, 19-20.	13.5	121
13	The dawn of active genetics. BioEssays, 2016, 38, 50-63.	1.2	114
14	Threshold-Dependent BMP-Mediated Repression: A Model for a Conserved Mechanism That Patterns the Neuroectoderm. PLoS Biology, 2006, 4, e313.	2.6	111
15	Efficient population modification gene-drive rescue system in the malaria mosquito <i>Anopheles stephensi</i> . Nature Communications, 2020, 11, 5553.	5.8	110
16	Creation of a Sog Morphogen Gradient in the <i>Drosophila</i> Embryo. Developmental Cell, 2002, 2, 91-101.	3.1	101
17	Anthrax toxins cooperatively inhibit endocytic recycling by the Rab11/Sec15 exocyst. Nature, 2010, 467, 854-858.	13.7	95
18	Gene drives gaining speed. Nature Reviews Genetics, 2022, 23, 5-22.	7.7	92

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19	Cholera Toxin Disrupts Barrier Function by Inhibiting Exocyst-Mediated Trafficking of Host Proteins to Intestinal Cell Junctions. <i>Cell Host and Microbe</i> , 2013, 14, 294-305.	5.1	82
20	Over-Expression of DSCAM and COL6A2 Cooperatively Generates Congenital Heart Defects. <i>PLoS Genetics</i> , 2011, 7, e1002344.	1.5	79
21	Hidden genomic features of an invasive malaria vector, <i>Anopheles stephensi</i> , revealed by a chromosome-level genome assembly. <i>BMC Biology</i> , 2021, 19, 28.	1.7	77
22	Rules of the road for insect gene drive research and testing. <i>Nature Biotechnology</i> , 2017, 35, 716-718.	9.4	74
23	RAB11-mediated trafficking in host-pathogen interactions. <i>Nature Reviews Microbiology</i> , 2014, 12, 624-634.	13.6	73
24	New insights into the biological effects of anthrax toxins: linking cellular to organismal responses. <i>Microbes and Infection</i> , 2012, 14, 97-118.	1.0	71
25	Drawing lines in the <i>Drosophila</i> wing: initiation of wing vein development. <i>Current Opinion in Genetics and Development</i> , 2000, 10, 393-398.	1.5	70
26	Assessment of a Split Homing Based Gene Drive for Efficient Knockout of Multiple Genes. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 827-837.	0.8	67
27	A transcomplementing gene drive provides a flexible platform for laboratory investigation and potential field deployment. <i>Nature Communications</i> , 2020, 11, 352.	5.8	61
28	Efficient allelic-drive in <i>Drosophila</i> . <i>Nature Communications</i> , 2019, 10, 1640.	5.8	59
29	Inherently confinable split-drive systems in <i>Drosophila</i> . <i>Nature Communications</i> , 2021, 12, 1480.	5.8	55
30	Active Genetic Neutralizing Elements for Halting or Deleting Gene Drives. <i>Molecular Cell</i> , 2020, 80, 246-262.e4.	4.5	54
31	Activation of the <i>knirps</i> locus links patterning to morphogenesis of the second wing vein in <i>Drosophila</i> . <i>Development (Cambridge)</i> , 2003, 130, 235-248.	1.2	46
32	A bacterial gene-drive system efficiently edits and inactivates a high copy number antibiotic resistance locus. <i>Nature Communications</i> , 2019, 10, 5726.	5.8	44
33	From The Cover: Anthrax lethal factor and edema factor act on conserved targets in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3244-3249.	3.3	39
34	Localized activation of RTK/MAPK pathways during <i>Drosophila</i> development. <i>BioEssays</i> , 1998, 20, 189-194.	1.2	38
35	Deconstructing host-pathogen interactions in <i>Drosophila</i> . <i>DMM Disease Models and Mechanisms</i> , 2012, 5, 48-61.	1.2	36
36	Integrins modulate Sog activity in the <i>Drosophila</i> wing. <i>Development (Cambridge)</i> , 2003, 130, 3851-3864.	1.2	32

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37	CRISPR/Cas9 and active genetics-based trans-species replacement of the endogenous <i>Drosophila</i> kni-L2 CRM reveals unexpected complexity. <i>ELife</i> , 2017, 6, .	2.8	30
38	Meiotic Cas9 expression mediates gene conversion in the male and female mouse germline. <i>PLoS Biology</i> , 2021, 19, e3001478.	2.6	29
39	Cysteine Repeat Domains and Adjacent Sequences Determine Distinct Bone Morphogenetic Protein Modulatory Activities of the <i>Drosophila</i> Sog Protein. <i>Genetics</i> , 2004, 166, 1323-1336.	1.2	24
40	A screen for dominant mutations applied to components in the <i>Drosophila</i> EGF-R pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3752-3757.	3.3	21
41	Reversing insecticide resistance with allelic-drive in <i>Drosophila melanogaster</i> . <i>Nature Communications</i> , 2022, 13, 291.	5.8	21
42	BMPs Regulate <i>msx</i> Gene Expression in the Dorsal Neuroectoderm of <i>Drosophila</i> and Vertebrates by Distinct Mechanisms. <i>PLoS Genetics</i> , 2014, 10, e1004625.	1.5	18
43	Gene length may contribute to graded transcriptional responses in the <i>Drosophila</i> embryo. <i>Developmental Biology</i> , 2011, 360, 230-240.	0.9	17
44	Innate Immune Interactions between <i>Bacillus anthracis</i> and Host Neutrophils. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 2.	1.8	16
45	dHIP14-dependent palmitoylation promotes secretion of the BMP antagonist Sog. <i>Developmental Biology</i> , 2010, 346, 1-10.	0.9	14
46	Influenza NS1 directly modulates Hedgehog signaling during infection. <i>PLoS Pathogens</i> , 2017, 13, e1006588.	2.1	14
47	High-resolution <i>in situ</i> analysis of Cas9 germline transcript distributions in gene-drive <i>Anopheles</i> mosquitoes. <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	0.8	14
48	Intriguing Extracellular Regulation of BMP Signaling. <i>Developmental Cell</i> , 2008, 15, 176-177.	3.1	13
49	Application of the Relationship-Based Model to Engagement for Field Trials of Genetically Engineered Malaria Vectors. <i>American Journal of Tropical Medicine and Hygiene</i> , 2020, , .	0.6	13
50	Evolution of Development: Diversified Dorsoventral Patterning. <i>Current Biology</i> , 2011, 21, R591-R594.	1.8	11
51	Anthrax edema toxin disrupts distinct steps in Rab11-dependent junctional transport. <i>PLoS Pathogens</i> , 2017, 13, e1006603.	2.1	11
52	N-linked glycosylation restricts the function of short gastrulation to bind and shuttle BMPs. <i>Development (Cambridge)</i> , 2018, 145, .	1.2	9
53	Ethical Considerations for Gene Drive: Challenges of Balancing Inclusion, Power and Perspectives. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 826727.	2.0	9
54	A unity of opposites. <i>Nature</i> , 1999, 398, 375-376.	13.7	8

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55	Driving to Safety: CRISPR-Based Genetic Approaches to Reducing Antibiotic Resistance. Trends in Genetics, 2021, 37, 745-757.	2.9	8
56	Active genetics comes alive. BioEssays, 2022, 44, .	1.2	8
57	Cas9/Nickase-induced allelic conversion by homologous chromosome-templated repair in <i>Drosophila</i> somatic cells. Science Advances, 2022, 8, .	4.7	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.	5.8	7
60	Translating gene drive science to promote linguistic diversity in community and stakeholder engagement. Global Public Health, 2020, 15, 1551-1565.	1.0	6
61	A <i>Drosophila</i> Model for <i>Clostridium difficile</i> Toxin CDT Reveals Interactions with Multiple Effector Pathways. IScience, 2020, 23, 100865.	1.9	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.	3.3	5
63	Hedgehog: Linking Uracil to Innate Defense. Cell Host and Microbe, 2015, 17, 146-148.	5.1	4
64	Antioxidant proteins TSA and PAG interact synergistically with Presenilin to modulate Notch signaling in <i>Drosophila</i> . Protein and Cell, 2011, 2, 554-563.	4.8	3
65	Gene Editing and the War Against Malaria. American Scientist, 2020, 108, 162.	0.1	2
66	Dissecting the evolutionary role of the <i>Hox</i> gene <i>proboscipedia</i> in <i>Drosophila</i> mouthpart diversification by full locus replacement. Science Advances, 2021, 7, eabk1003.	4.7	2