

# Bruce A Hay

## List of Publications by Year in descending order

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60  
papers

9,125  
citations

71102

41  
h-index

128289

60  
g-index

73  
all docs

73  
docs citations

73  
times ranked

7880  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Genomics of the Eukaryotes. <i>Science</i> , 2000, 287, 2204-2215.	12.6	1,573
2	The <i>Drosophila</i> MicroRNA Mir-14 Suppresses Cell Death and Is Required for Normal Fat Metabolism. <i>Current Biology</i> , 2003, 13, 790-795.	3.9	904
3	<i>Drosophila</i> homologs of baculovirus inhibitor of apoptosis proteins function to block cell death. <i>Cell</i> , 1995, 83, 1253-1262.	28.9	735
4	The <i>Drosophila</i> Caspase Inhibitor DIAP1 Is Essential for Cell Survival and Is Negatively Regulated by HID. <i>Cell</i> , 1999, 98, 453-463.	28.9	477
5	MicroRNAs and the regulation of cell death. <i>Trends in Genetics</i> , 2004, 20, 617-624.	6.7	379
6	Hid, Rpr and Grim negatively regulate DIAP1 levels through distinct mechanisms. <i>Nature Cell Biology</i> , 2002, 4, 416-424.	10.3	356
7	Compensatory Proliferation Induced by Cell Death in the <i>Drosophila</i> Wing Disc Requires Activity of the Apical Cell Death Caspase Dronc in a Nonapoptotic Role. <i>Current Biology</i> , 2004, 14, 1262-1266.	3.9	325
8	A synthetic maternal-effect selfish genetic element drives population replacement in <i>Drosophila</i> . <i>Science</i> , 2007, 316, 597-600.	12.6	218
9	Mapping a multiplexed zoo of mRNA expression. <i>Development (Cambridge)</i> , 2016, 143, 3632-3637.	2.5	198
10	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, 1493-1509.	1.8	189
11	A Synthetic Maternal-Effect Selfish Genetic Element Drives Population Replacement in <i>Drosophila</i> . <i>Science</i> , 2007, 316, 597-600.	12.6	188
12	The <i>Drosophila</i> Caspase DRONC Cleaves following Glutamate or Aspartate and Is Regulated by DIAP1, HID, and GRIM. <i>Journal of Biological Chemistry</i> , 2000, 275, 27084-27093.	3.4	184
13	Caspase-Dependent Cell Death in <i>Drosophila</i> . <i>Annual Review of Cell and Developmental Biology</i> , 2006, 22, 623-650.	9.4	179
14	The role of cytochrome c in caspase activation in <i>Drosophila melanogaster</i> cells. <i>Journal of Cell Biology</i> , 2002, 156, 1089-1098.	5.2	178
15	Inactivation of Both foxo and reaper Promotes Long-Term Adult Neurogenesis in <i>Drosophila</i> . <i>Current Biology</i> , 2010, 20, 643-648.	3.9	172
16	Multiple Apoptotic Caspase Cascades Are Required in Nonapoptotic Roles for <i>Drosophila</i> Spermatid Individualization. <i>PLoS Biology</i> , 2003, 2, e15.	5.6	158
17	A Synthetic Gene Drive System for Local, Reversible Modification and Suppression of Insect Populations. <i>Current Biology</i> , 2013, 23, 671-677.	3.9	150
18	A pathway of signals regulating effector and initiator caspases in the developing <i>Drosophila</i> eye. <i>Development (Cambridge)</i> , 2002, 129, 3269-3278.	2.5	149

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19	The Drosophila DIAP1 Protein Is Required to Prevent Accumulation of a Continuously Generated, Processed Form of the Apical Caspase DRONC. <i>Journal of Biological Chemistry</i> , 2002, 277, 49644-49650.	3.4	148
20	Cleave and Rescue, a novel selfish genetic element and general strategy for gene drive. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6250-6259.	7.1	133
21	Molecular mechanism of Reaper-Grim-Hid-mediated suppression of DIAP1-dependent Dronc ubiquitination. <i>Nature Structural and Molecular Biology</i> , 2003, 10, 892-898.	8.2	131
22	The Drosophila caspase Ice is important for many apoptotic cell deaths and for spermatid individualization, a nonapoptotic process. <i>Development (Cambridge)</i> , 2006, 133, 3305-3315.	2.5	130
23	Structural Analysis of a Functional DIAP1 Fragment Bound to Grim and Hid Peptides. <i>Molecular Cell</i> , 2001, 8, 95-104.	9.7	113
24	Cell Death Regulation in Drosophila. <i>Journal of Cell Biology</i> , 2000, 150, F69-F76.	5.2	100
25	Novel Synthetic <i>Medea</i> Selfish Genetic Elements Drive Population Replacement in <i>Drosophila</i> ; a Theoretical Exploration of <i>Medea</i> -Dependent Population Suppression. <i>ACS Synthetic Biology</i> , 2014, 3, 915-928.	3.8	98
26	Behavior of homing endonuclease gene drives targeting genes required for viability or female fertility with multiplexed guide RNAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9343-E9352.	7.1	96
27	Confinement of gene drive systems to local populations: A comparative analysis. <i>Journal of Theoretical Biology</i> , 2012, 294, 153-171.	1.7	87
28	The genetics of cell death: approaches, insights and opportunities in Drosophila. <i>Nature Reviews Genetics</i> , 2004, 5, 911-922.	16.3	81
29	The Drosophila Inhibitor of Apoptosis (IAP) DIAP2 Is Dispensable for Cell Survival, Required for the Innate Immune Response to Gram-negative Bacterial Infection, and Can Be Negatively Regulated by the Reaper/Hid/Grim Family of IAP-binding Apoptosis Inducers. <i>Journal of Biological Chemistry</i> , 2007, 282, 2056-2068.	3.4	80
30	Selective removal of deletion-bearing mitochondrial DNA in heteroplasmic Drosophila. <i>Nature Communications</i> , 2016, 7, 13100.	12.8	79
31	Rules of the road for insect gene drive research and testing. <i>Nature Biotechnology</i> , 2017, 35, 716-718.	17.5	74
32	Drosophila Bruce Can Potently Suppress Rpr- and Grim-Dependent but Not Hid-Dependent Cell Death. <i>Current Biology</i> , 2002, 12, 1164-1168.	3.9	72
33	Engineered Reciprocal Chromosome Translocations Drive High Threshold, Reversible Population Replacement in Drosophila. <i>ACS Synthetic Biology</i> , 2018, 7, 1359-1370.	3.8	72
34	MEDEA SELFISH GENETIC ELEMENTS AS TOOLS FOR ALTERING TRAITS OF WILD POPULATIONS: A THEORETICAL ANALYSIS. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 1149-1162.	2.3	66
35	Valosin-containing protein (VCP/p97) inhibitors relieve Mitofusin-dependent mitochondrial defects due to VCP disease mutants. <i>ELife</i> , 2017, 6, .	6.0	63
36	Engineering the Composition and Fate of Wild Populations with Gene Drive. <i>Annual Review of Entomology</i> , 2021, 66, 407-434.	11.8	61

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37	Reaper Is Regulated by IAP-mediated Ubiquitination. <i>Journal of Biological Chemistry</i> , 2003, 278, 4028-4034.	3.4	60
38	<i>Semele</i> : A Killer-Male, Rescue-Female System for Suppression and Replacement of Insect Disease Vector Populations. <i>Genetics</i> , 2011, 187, 535-551.	2.9	55
39	Engineering the genomes of wild insect populations: Challenges, and opportunities provided by synthetic <i>Medea</i> selfish genetic elements. <i>Journal of Insect Physiology</i> , 2010, 56, 1402-1413.	2.0	51
40	Structure and Activation Mechanism of the <i>Drosophila</i> Initiator Caspase Dronc. <i>Journal of Biological Chemistry</i> , 2006, 281, 8667-8674.	3.4	45
41	Identification of novel genes involved in light-dependent CRY degradation through a genome-wide RNAi screen. <i>Genes and Development</i> , 2008, 22, 1522-1533.	5.9	44
42	Coupling Cell Growth, Proliferation, and Death. <i>Developmental Cell</i> , 2003, 5, 361-363.	7.0	43
43	Inverse <i>Medea</i> as a Novel Gene Drive System for Local Population Replacement: A Theoretical Analysis. <i>Journal of Heredity</i> , 2011, 102, 336-341.	2.4	42
44	Gene drive and resilience through renewal with next generation <i>Cleave and Rescue</i> selfish genetic elements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9013-9021.	7.1	42
45	<i>Drosophila</i> caspases involved in developmentally regulated programmed cell death of peptidergic neurons during early metamorphosis. <i>Journal of Comparative Neurology</i> , 2011, 519, 34-48.	1.6	38
46	GENERAL PRINCIPLES OF SINGLE-CONSTRUCT CHROMOSOMAL GENE DRIVE. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 2150-2166.	2.3	37
47	Identification of germline transcriptional regulatory elements in <i>Aedes aegypti</i> . <i>Scientific Reports</i> , 2014, 4, 3954.	3.3	35
48	<i>Medusa</i> : A Novel Gene Drive System for Confined Suppression of Insect Populations. <i>PLoS ONE</i> , 2014, 9, e102694.	2.5	27
49	Split versions of <i>Cleave and Rescue</i> selfish genetic elements for measured self limiting gene drive. <i>PLoS Genetics</i> , 2021, 17, e1009385.	3.5	23
50	Essential role of <i>grim</i> -led programmed cell death for the establishment of corazonin-producing peptidergic nervous system during embryogenesis and metamorphosis in <i>Drosophila melanogaster</i> . <i>Biology Open</i> , 2013, 2, 283-294.	1.2	20
51	<i>Clueless/CLUH</i> regulates mitochondrial fission by promoting recruitment of Drp1 to mitochondria. <i>Nature Communications</i> , 2022, 13, 1582.	12.8	20
52	A drug-inducible sex-separation technique for insects. <i>Nature Communications</i> , 2020, 11, 2106.	12.8	19
53	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, 2647-2653.	1.8	16
54	Monitoring Activity of Caspases and Their Regulators in Yeast <i>Saccharomyces cerevisiae</i> . <i>Methods in Enzymology</i> , 2000, 322, 162-174.	1.0	15

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55	Vectored antibody gene delivery mediates long-term contraception. <i>Current Biology</i> , 2015, 25, R820-R822.	3.9	14
56	Vectored gene delivery for lifetime animal contraception: Overview and hurdles to implementation. <i>Theriogenology</i> , 2018, 112, 63-74.	2.1	13
57	echinus, required for interommatidial cell sorting and cell death in the <i>Drosophila</i> pupal retina, encodes a protein with homology to ubiquitin-specific proteases. <i>BMC Developmental Biology</i> , 2007, 7, 82.	2.1	10
58	Identifying MicroRNA Regulators of Cell Death in <i>Drosophila</i> . , 2006, 342, 229-240.		9
59	Gene drive that results in addiction to a temperature-sensitive version of an essential gene triggers population collapse in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	7
60	Sculpture of a fly's head. <i>Nature</i> , 2002, 418, 926-927.	27.8	3