Allan C Spradling

List of Publications by Year
in descending order

111	27,135	13865 67	24982 109
papers	citations	h-index	g-index

126	126	126	20912
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Genome Sequence of Drosophila melanogaster. Science, 2000, 287, 2185-2195.	12.6	5,566
2	Stem Cells and Niches: Mechanisms That Promote Stem Cell Maintenance throughout Life. Cell, 2008, 132, 598-611.	28.9	1,706
3	Stem cells find their niche. Nature, 2001, 414, 98-104.	27.8	1,303
4	The adult Drosophila posterior midgut is maintained by pluripotent stem cells. Nature, 2006, 439, 470-474.	27.8	947
5	The BDGP Gene Disruption Project. Genetics, 2004, 167, 761-781.	2.9	774
6	A Niche Maintaining Germ Line Stem Cells in the Drosophila Ovary. Science, 2000, 290, 328-330.	12.6	738
7	The Berkeley Drosophila Genome Project Gene Disruption Project: Single P-Element Insertions Mutating 25% of Vital Drosophila Genes. Genetics, 1999, 153, 135-177.	2.9	731
8	MiMIC: a highly versatile transposon insertion resource for engineering Drosophila melanogaster genes. Nature Methods, 2011, 8, 737-743.	19.0	620
9	decapentaplegic Is Essential for the Maintenance and Division of Germline Stem Cells in the Drosophila Ovary. Cell, 1998, 94, 251-260.	28.9	617
10	Mouse Ovarian Germ Cell Cysts Undergo Programmed Breakdown to Form Primordial Follicles. Developmental Biology, 2001, 234, 339-351.	2.0	600
11	Multipotent Drosophila Intestinal Stem Cells Specify Daughter Cell Fates by Differential Notch Signaling. Science, 2007, 315, 988-992.	12.6	582
12	Vectors for P element-mediated gene transfer inDrosophila. Nucleic Acids Research, 1983, 11, 6341-6351.	14.5	576
13	Stem Cells and Their Progeny Respond to Nutritional Changes during Drosophila Oogenesis. Developmental Biology, 2001, 231, 265-278.	2.0	555
14	The Carnegie Protein Trap Library: A Versatile Tool for Drosophila Developmental Studies. Genetics, 2007, 175, 1505-1531.	2.9	529
15	The effect of chromosomal position on the expression of the drosophila xanthine dehydrogenase gene. Cell, 1983, 34, 47-57.	28.9	433
16	Chromatin Loosening by Poly(ADP)-Ribose Polymerase (PARP) at Drosophila Puff Loci. Science, 2003, 299, 560-562.	12.6	426
17	Male and Female Drosophila Germline Stem Cells: Two Versions of Immortality. Science, 2007, 316, 402-404.	12.6	420
18	The Drosophila Gene Disruption Project: Progress Using Transposons With Distinctive Site Specificities. Genetics, 2011, 188, 731-743.	2.9	330

#	Article	IF	Citations
19	slow border cells, a locus required for a developmentally regulated cell migration during oogenesis, encodes Drosophila CEBP. Cell, 1992, 71, 51-62.	28.9	323
20	Differentiating germ cells can revert into functional stem cells in Drosophila melanogaster ovaries. Nature, 2004, 428, 564-569.	27.8	320
21	A library of MiMICs allows tagging of genes and reversible, spatial and temporal knockdown of proteins in Drosophila. ELife, 2015, 4, .	6.0	320
22	The stem cell niche: theme and variations. Current Opinion in Cell Biology, 2004, 16, 693-699.	5.4	316
23	Messenger RNA in heat-shocked Drosophila cells. Journal of Molecular Biology, 1977, 109, 559-587.	4.2	297
24	The Drosophila Ovarian and Testis Stem Cell Niches: Similar Somatic Stem Cells and Signals. Developmental Cell, 2005, 9, 501-510.	7.0	284
25	A Balbiani body and the fusome mediate mitochondrial inheritance duringDrosophilaoogenesis. Development (Cambridge), 2003, 130, 1579-1590.	2.5	277
26	Drosophila Stem Cell Niches: A Decade of Discovery Suggests a Unified View of Stem Cell Regulation. Developmental Cell, 2011, 21, 159-171.	7.0	277
27	An empty Drosophila stem cell niche reactivates the proliferation of ectopic cells. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4633-4638.	7.1	264
28	Germline Stem Cells. Cold Spring Harbor Perspectives in Biology, 2011, 3, a002642-a002642.	5.5	240
29	Mouse oocytes differentiate through organelle enrichment from sister cyst germ cells. Science, 2016, 352, 95-99.	12.6	232
30	Germline cysts: a conserved phase of germ cell development?. Trends in Cell Biology, 1999, 9, 257-262.	7.9	230
31	Germline Stem Cell Division and Egg Chamber Development in Transplanted Drosophila Germaria. Developmental Biology, 1993, 159, 140-152.	2.0	219
32	Physiological and stem cell compartmentalization within the Drosophila midgut. ELife, 2013, 2, e00886.	6.0	218
33	Fusome asymmetry and oocyte determination inDrosophila. Genesis, 1995, 16, 6-12.	2.1	203
34	A gene-specific T2A-GAL4 library for Drosophila. ELife, 2018, 7, .	6.0	203
35	Mouse oocytes within germ cell cysts and primordial follicles contain a Balbiani body. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 187-192.	7.1	202
36	The Drosophila heterochromatic gene encoding poly(ADP-ribose) polymerase (PARP) is required to modulate chromatin structure during development. Genes and Development, 2002, 16, 2108-2119.	5.9	187

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37	Polyploidization and Cell Fusion Contribute to Wound Healing in the Adult Drosophila Epithelium. Current Biology, 2013, 23, 2224-2232.	3.9	174
38	An Epithelial Niche in the Drosophila Ovary Undergoes Long-Range Stem Cell Replacement. Cell Stem Cell, 2007, 1, 277-285.	11.1	166
39	Reduced DNA polytenization of a minichromosome region undergoing position-effect variegation in Drosophila. Cell, 1990, 63, 97-107.	28.9	158
40	Mouse primordial germ cells produce cysts that partially fragment prior to meiosis. Development (Cambridge), 2013, 140, 2075-2081.	2.5	158
41	Steroid Signaling Establishes a Female Metabolic State and Regulates SREBP to Control Oocyte Lipid Accumulation. Current Biology, 2015, 25, 993-1004.	3.9	158
42	Female mice lack adult germ-line stem cells but sustain oogenesis using stable primordial follicles. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8585-8590.	7.1	156
43	Long-term live imaging provides new insight into stem cell regulation and germline-soma coordination in the Drosophila ovary. Development (Cambridge), 2011, 138, 2207-2215.	2.5	153
44	Transcriptional Silencing and Reactivation in Transgenic Zebrafish. Genetics, 2009, 182, 747-755.	2.9	149
45	Two distinct pathways of pregranulosa cell differentiation support follicle formation in the mouse ovary. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20015-20026.	7.1	137
46	A genetic toolkit for tagging intronic MiMIC containing genes. ELife, 2015, 4, .	6.0	134
47	Fragile X mental retardation 1 gene enhances the translation of large autism-related proteins. Science, 2018, 361, 709-712.	12.6	130
48	The expression profile of purified Drosophila germline stem cells. Developmental Biology, 2005, 283, 486-502.	2.0	124
49	Two clusters of genes for major chorion proteins of Drosophila melanogaster. Cell, 1980, 19, 905-914.	28.9	122
50	Electron Transport Chain Remodeling by GSK3 during Oogenesis Connects Nutrient State to Reproduction. Cell, 2016, 164, 420-432.	28.9	119
51	Identification and genetic localization of mRNAs from ovarian follicle cells of Drosophila melanogaster. Cell, 1979, 16, 589-598.	28.9	117
52	Drosophila Stem Cells Share a Common Requirement for the Histone H2B Ubiquitin Protease Scrawny. Science, 2009, 323, 248-251.	12.6	113
53	Localization of a cis-acting element responsible for the developmentally regulated amplification of drosophila chorion genes. Cell, 1984, 38, 45-54.	28.9	109
54	Drosophila Eggshell Production: Identification of New Genes and Coordination by Pxt. PLoS ONE, 2011, 6, e19943.	2.5	106

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55	An efficient CRISPR-based strategy to insert small and large fragments of DNA using short homology arms. ELife, 2019, 8, .	6.0	105
56	Two very different components of messenger RNA in an insect cell line. Cell, 1975, 4, 131-137.	28.9	104
57	New components of the Drosophila fusome suggest it plays novel roles in signaling and transport. Developmental Biology, 2008, 317, 59-71.	2.0	97
58	The Drosophila Hindgut Lacks Constitutively Active Adult Stem Cells but Proliferates in Response to Tissue Damage. Cell Stem Cell, 2009, 5, 290-297.	11.1	96
59	Drosophila P elements preferentially transpose to replication origins. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15948-15953.	7.1	93
60	Cyclin A Associates with the Fusome during Germline Cyst Formation in the Drosophila Ovary. Developmental Biology, 2000, 218, 53-63.	2.0	92
61	Error-prone polyploid mitosis during normal Drosophila development. Genes and Development, 2010, 24, 2294-2302.	5.9	91
62	Regulation of Epithelial Stem Cell Replacement and Follicle Formation in the Drosophila Ovary. Genetics, 2010, 184, 503-515.	2.9	88
63	clueless, a conserved Drosophila gene required for mitochondrial subcellular localization, interacts genetically withparkin. DMM Disease Models and Mechanisms, 2009, 2, 490-499.	2.4	85
64	Ovulation in Drosophila is controlled by secretory cells of the female reproductive tract. ELife, 2013, 2, e00415.	6.0	84
65	DNA sequence of a 3.8 kilobase pair region controlling Drosophila chorion gene amplification. Chromosoma, 1985, 92, 136-142.	2.2	83
66	Searching Chromatin for Stem Cell Identity. Cell, 2006, 125, 233-236.	28.9	83
67	Chorion Gene Amplification in Drosophila: A Model for Metazoan Origins of DNA Replication and S-Phase Control. Methods, 1999, 18, 407-417.	3.8	76
68	Controlling P element insertional mutagenesis. Trends in Genetics, 1988, 4, 254-258.	6.7	75
69	Incomplete replication generates somatic DNA alterations within Drosophila polytene salivary gland cells. Genes and Development, 2014, 28, 1840-1855.	5.9	72
70	Steroid Signaling within Drosophila Ovarian Epithelial Cells Sex-Specifically Modulates Early Germ Cell Development and Meiotic Entry. PLoS ONE, 2012, 7, e46109.	2.5	70
71	Matrix Metalloproteinase 2 Is Required for Ovulation and Corpus Luteum Formation in Drosophila. PLoS Genetics, 2015, 11, e1004989.	3.5	68
72	The messenger-like poly(A)-containing RNA species from the mitochondria of mammals and insects. Cell, 1974, 1, 31-35.	28.9	67

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73	The Drosophila P68 RNA helicase regulates transcriptional deactivation by promoting RNA release from chromatin. Genes and Development, 2006, 20, 977-989.	5.9	63
74	Efficient Expression of Genes in theDrosophilaGermline Using a UAS Promoter Free of Interference by Hsp70 piRNAs. Genetics, 2018, 209, 381-387.	2.9	62
75	Dietary Lipids Modulate Notch Signaling and Influence Adult Intestinal Development and Metabolism in Drosophila. Developmental Cell, 2018, 47, 98-111.e5.	7.0	62
76	Wound-Induced Polyploidization: Regulation by Hippo and JNK Signaling and Conservation in Mammals. PLoS ONE, 2016, 11, e0151251.	2.5	56
77	Developmentally regulated expression of Drosophila chorion genes introduced at diverse chromosomal positions. Journal of Molecular Biology, 1986, 187, 33-45.	4.2	55
78	Regulation of Chromatin Structure and Gene Activity by Poly(ADP-Ribose) Polymerases. Current Topics in Developmental Biology, 2003, 56, 55-83.	2.2	53
79	Drosophila Poly(ADP-Ribose) Glycohydrolase Mediates Chromatin Structure and SIR2-Dependent Silencing. Genetics, 2006, 172, 363-371.	2.9	53
80	Replication and expression of an X-linked cluster of Drosophila chorion genes. Developmental Biology, 1986, 117, 294-305.	2.0	52
81	Breaking out of the mold: diversity within adult stem cells and their niches. Current Opinion in Genetics and Development, 2006, 16, 463-468.	3.3	51
82	Epigenetic stability increases extensively during Drosophila follicle stem cell differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7389-7394.	7.1	49
83	Chapter 12 Methods with Insect Cells in Suspension Culture II. Drosophila melanogaster. Methods in Cell Biology, 1975, 10, 195-208.	1.1	41
84	Drosophila bearing the ocelliless mutation underproduce two major chorion proteins both of which map near this gene. Cell, 1979, 16, 609-616.	28.9	39
85	Î±-Endosulfine, a potential regulator of insulin secretion, is required for adult tissue growth control in Drosophila. Developmental Biology, 2004, 266, 310-321.	2.0	37
86	Replication forks are not found in a Drosophila minichromosome demonstrating a gradient of polytenization. Chromosoma, 1992, 102, 15-19.	2.2	36
87	New Roles for Model Genetic Organisms in Understanding and Treating Human Disease: Report From The 2006 Genetics Society of America Meeting. Genetics, 2006, 172, 2025-2032.	2.9	35
88	NR5A Nuclear Receptor Hr39 Controls Three-Cell Secretory Unit Formation in Drosophila Female Reproductive Glands. Current Biology, 2012, 22, 862-871.	3.9	30
89	The role of metabolic states in development and disease. Current Opinion in Genetics and Development, 2017, 45, 58-68.	3.3	30
90	The nuclear location and chromatin organization of active chorion amplification origins. Chromosoma, 2001, 110, 159-172.	2.2	27

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91	An abundant quiescent stem cell population in Drosophila Malpighian tubules protects principal cells from kidney stones. ELife, 2020, 9, .	6.0	25
92	Differentiating Drosophila female germ cells initiate Polycomb silencing by regulating PRC2-interacting proteins. ELife, 2020, 9, .	6.0	25
93	The progenitor state is maintained by lysine-specific demethylase 1-mediated epigenetic plasticity during Drosophila follicle cell development. Genes and Development, 2014, 28, 2739-2749.	5.9	24
94	Unusual properties of genomic DNA molecules spanning the euchromatic â€“ heterochromatic junction of a Drosophila minichromosome. Nucleic Acids Research, 1994, 22, 5068-5075.	14.5	22
95	Prolonged ovarian storage of mature Drosophila oocytes dramatically increases meiotic spindle instability. ELife, 2019, 8, .	6.0	20
96	DEVELOPMENTAL BIOLOGY: The Mother of All Stem Cells?. Science, 2007, 315, 469-470.	12.6	18
97	High contiguity de novo genome assembly and DNA modification analyses for the fungus fly, Sciara coprophila, using single-molecule sequencing. BMC Genomics, 2021, 22, 643.	2.8	17
98	Identification of Genes MediatingDrosophilaFollicle Cell Progenitor Differentiation by Screening for Modifiers of GAL4::UAS Variegation. G3: Genes, Genomes, Genetics, 2017, 7, 309-318.	1.8	11
99	More like a man. Nature, 2004, 428, 133-134.	27.8	10
100	FMRP-dependent production of large dosage-sensitive proteins is highly conserved. Genetics, 2022, 221, .	2.9	8
101	Learning the Common Language of Genetics. Genetics, 2006, 174, 1-3.	2.9	7
102	Polytene Chromosome Structure and Somatic Genome Instability. Cold Spring Harbor Symposia on Quantitative Biology, 2017, 82, 293-304.	1.1	6
103	Single-Cell Lineage Analysis of Oogenesis in Mice. Methods in Molecular Biology, 2017, 1463, 125-138.	0.9	5
104	Female Reproductive Glands Play Essential Roles in Reproduction That May Have Been Conserved During Evolution.. Biology of Reproduction, 2012, 87, 347-347.	2.7	4
105	The Carnegie Institution of Washington, Department of Embryology. Molecular Medicine, 1997, 3, 417-419.	4.4	3
106	Makeshift sperm production. Nature, 2008, 456, 583-585.	27.8	3
107	The livingâ€tissue microscope: the importance of studying stem cells in their natural, undisturbed microenvironment. Journal of Pathology, 2011, 225, 161-162.	4.5	3
108	Opinion: NIH must support broadly focused basic research. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8340-8342.	7.1	3

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109	Reflections on the Drosophila genome. Functional and Integrative Genomics, 2001, 1, 221-222.	3.5	1
110	The Carnegie Department of Embryology at 100. Current Topics in Developmental Biology, 2016, 117, 405-415.	2.2	0
111	Drosophila renal stem cells enhance fitness by delayed remodeling of adult Malpighian tubules. Science Advances, 2022, 8, .	10.3	0