

# Allan C Spradling

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108  
papers

22,442  
citations

64  
h-index

126  
g-index

126  
ext. papers

25,166  
ext. citations

16.7  
avg, IF

7.05  
L-index

#	Paper	IF	Citations
108	High contiguity de novo genome assembly and DNA modification analyses for the fungus fly, <i>Sciara coprophila</i> , using single-molecule sequencing. <i>BMC Genomics</i> , <b>2021</b> , 22, 643	4.5	1
107	An abundant quiescent stem cell population in Malpighian tubules protects principal cells from kidney stones. <i>ELife</i> , <b>2020</b> , 9,	8.9	11
106	Differentiating female germ cells initiate Polycomb silencing by regulating PRC2-interacting proteins. <i>ELife</i> , <b>2020</b> , 9,	8.9	5
105	Two distinct pathways of pregranulosa cell differentiation support follicle formation in the mouse ovary. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 20015-20026	11.5	48
104	Prolonged ovarian storage of mature oocytes dramatically increases meiotic spindle instability. <i>ELife</i> , <b>2019</b> , 8,	8.9	10
103	An efficient CRISPR-based strategy to insert small and large fragments of DNA using short homology arms. <i>ELife</i> , <b>2019</b> , 8,	8.9	41
102	Efficient Expression of Genes in the Germline Using a UAS Promoter Free of Interference by Hsp70 piRNAs. <i>Genetics</i> , <b>2018</b> , 209, 381-387	4	26
101	Fragile X mental retardation 1 gene enhances the translation of large autism-related proteins. <i>Science</i> , <b>2018</b> , 361, 709-712	33.3	66
100	Dietary Lipids Modulate Notch Signaling and Influence Adult Intestinal Development and Metabolism in <i>Drosophila</i> . <i>Developmental Cell</i> , <b>2018</b> , 47, 98-111.e5	10.2	35
99	A gene-specific library for. <i>ELife</i> , <b>2018</b> , 7,	8.9	85
98	Identification of Genes Mediating <i>Drosophila</i> Follicle Cell Progenitor Differentiation by Screening for Modifiers of GAL4::UAS Variegation. <i>G3: Genes, Genomes, Genetics</i> , <b>2017</b> , 7, 309-318	3.2	6
97	The role of metabolic states in development and disease. <i>Current Opinion in Genetics and Development</i> , <b>2017</b> , 45, 58-68	4.9	14
96	Single-Cell Lineage Analysis of Oogenesis in Mice. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1463, 125-138	1.4	4
95	Polytene Chromosome Structure and Somatic Genome Instability. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>2017</b> , 82, 293-304	3.9	4
94	Electron Transport Chain Remodeling by GSK3 during Oogenesis Connects Nutrient State to Reproduction. <i>Cell</i> , <b>2016</b> , 164, 420-32	56.2	66
93	Mouse oocytes differentiate through organelle enrichment from sister cyst germ cells. <i>Science</i> , <b>2016</b> , 352, 95-9	33.3	153
92	Wound-Induced Polyploidization: Regulation by Hippo and JNK Signaling and Conservation in Mammals. <i>PLoS ONE</i> , <b>2016</b> , 11, e0151251	3.7	36

91	Opinion: NIH must support broadly focused basic research. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 8340-2	11.5	2
90	The Carnegie Department of Embryology at 100: Looking Forward. <i>Current Topics in Developmental Biology</i> , <b>2016</b> , 117, 405-15	5.3	
89	Matrix metalloproteinase 2 is required for ovulation and corpus luteum formation in <i>Drosophila</i> . <i>PLoS Genetics</i> , <b>2015</b> , 11, e1004989	6	41
88	Steroid Signaling Establishes a Female Metabolic State and Regulates SREBP to Control Oocyte Lipid Accumulation. <i>Current Biology</i> , <b>2015</b> , 25, 993-1004	6.3	105
87	A library of MiMICs allows tagging of genes and reversible, spatial and temporal knockdown of proteins in <i>Drosophila</i> . <i>ELife</i> , <b>2015</b> , 4,	8.9	199
86	A genetic toolkit for tagging intronic MiMIC containing genes. <i>ELife</i> , <b>2015</b> , 4,	8.9	78
85	Incomplete replication generates somatic DNA alterations within <i>Drosophila</i> polytene salivary gland cells. <i>Genes and Development</i> , <b>2014</b> , 28, 1840-55	12.6	55
84	The progenitor state is maintained by lysine-specific demethylase 1-mediated epigenetic plasticity during <i>Drosophila</i> follicle cell development. <i>Genes and Development</i> , <b>2014</b> , 28, 2739-49	12.6	15
83	Polyploidization and cell fusion contribute to wound healing in the adult <i>Drosophila</i> epithelium. <i>Current Biology</i> , <b>2013</b> , 23, 2224-2232	6.3	124
82	Mouse primordial germ cells produce cysts that partially fragment prior to meiosis. <i>Development (Cambridge)</i> , <b>2013</b> , 140, 2075-81	6.6	116
81	Female mice lack adult germ-line stem cells but sustain oogenesis using stable primordial follicles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 8585-90	11.5	134
80	Ovulation in <i>Drosophila</i> is controlled by secretory cells of the female reproductive tract. <i>ELife</i> , <b>2013</b> , 2, e00415	8.9	64
79	Physiological and stem cell compartmentalization within the <i>Drosophila</i> midgut. <i>ELife</i> , <b>2013</b> , 2, e00886	8.9	156
78	Author response: Physiological and stem cell compartmentalization within the <i>Drosophila</i> midgut <b>2013</b> ,		2
77	NR5A nuclear receptor Hr39 controls three-cell secretory unit formation in <i>Drosophila</i> female reproductive glands. <i>Current Biology</i> , <b>2012</b> , 22, 862-71	6.3	25
76	Steroid signaling within <i>Drosophila</i> ovarian epithelial cells sex-specifically modulates early germ cell development and meiotic entry. <i>PLoS ONE</i> , <b>2012</b> , 7, e46109	3.7	57
75	MiMIC: a highly versatile transposon insertion resource for engineering <i>Drosophila melanogaster</i> genes. <i>Nature Methods</i> , <b>2011</b> , 8, 737-43	21.6	419
74	The <i>Drosophila</i> gene disruption project: progress using transposons with distinctive site specificities. <i>Genetics</i> , <b>2011</b> , 188, 731-43	4	253

73	Drosophila stem cell niches: a decade of discovery suggests a unified view of stem cell regulation. <i>Developmental Cell</i> , <b>2011</b> , 21, 159-71	10.2	230
72	Long-term live imaging provides new insight into stem cell regulation and germline-soma coordination in the Drosophila ovary. <i>Development (Cambridge)</i> , <b>2011</b> , 138, 2207-15	6.6	129
71	Drosophila eggshell production: identification of new genes and coordination by Pxt. <i>PLoS ONE</i> , <b>2011</b> , 6, e19943	3.7	73
70	The living-tissue microscope: the importance of studying stem cells in their natural, undisturbed microenvironment. <i>Journal of Pathology</i> , <b>2011</b> , 225, 161-2	9.4	3
69	Germline stem cells. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2011</b> , 3, a002642	10.2	195
68	Drosophila P elements preferentially transpose to replication origins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 15948-53	11.5	68
67	Regulation of epithelial stem cell replacement and follicle formation in the Drosophila ovary. <i>Genetics</i> , <b>2010</b> , 184, 503-15	4	71
66	Epigenetic stability increases extensively during Drosophila follicle stem cell differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 7389-94	11.5	39
65	Error-prone polyploid mitosis during normal Drosophila development. <i>Genes and Development</i> , <b>2010</b> , 24, 2294-302	12.6	69
64	Drosophila stem cells share a common requirement for the histone H2B ubiquitin protease scrawny. <i>Science</i> , <b>2009</b> , 323, 248-51	33.3	98
63	Transcriptional silencing and reactivation in transgenic zebrafish. <i>Genetics</i> , <b>2009</b> , 182, 747-55	4	113
62	Clueless, a conserved Drosophila gene required for mitochondrial subcellular localization, interacts genetically with parkin. <i>DMM Disease Models and Mechanisms</i> , <b>2009</b> , 2, 490-9	4.1	65
61	The Drosophila hindgut lacks constitutively active adult stem cells but proliferates in response to tissue damage. <i>Cell Stem Cell</i> , <b>2009</b> , 5, 290-7	18	79
60	New components of the Drosophila fusome suggest it plays novel roles in signaling and transport. <i>Developmental Biology</i> , <b>2008</b> , 317, 59-71	3.1	76
59	Stem cells and niches: mechanisms that promote stem cell maintenance throughout life. <i>Cell</i> , <b>2008</b> , 132, 598-611	56.2	1449
58	Male and female Drosophila germline stem cells: two versions of immortality. <i>Science</i> , <b>2007</b> , 316, 402-4	33.3	351
57	Multipotent Drosophila intestinal stem cells specify daughter cell fates by differential notch signaling. <i>Science</i> , <b>2007</b> , 315, 988-92	33.3	484
56	Mouse oocytes within germ cell cysts and primordial follicles contain a Balbiani body. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 187-92	11.5	168

55	The carnegie protein trap library: a versatile tool for Drosophila developmental studies. <i>Genetics</i> , <b>2007</b> , 175, 1505-31	4	405
54	Developmental biology. The mother of all stem cells?. <i>Science</i> , <b>2007</b> , 315, 469-70	33.3	17
53	An epithelial niche in the Drosophila ovary undergoes long-range stem cell replacement. <i>Cell Stem Cell</i> , <b>2007</b> , 1, 277-85	18	151
52	The Drosophila P68 RNA helicase regulates transcriptional deactivation by promoting RNA release from chromatin. <i>Genes and Development</i> , <b>2006</b> , 20, 977-89	12.6	61
51	Drosophila poly(ADP-ribose) glycohydrolase mediates chromatin structure and SIR2-dependent silencing. <i>Genetics</i> , <b>2006</b> , 172, 363-71	4	45
50	Searching chromatin for stem cell identity. <i>Cell</i> , <b>2006</b> , 125, 233-6	56.2	81
49	Breaking out of the mold: diversity within adult stem cells and their niches. <i>Current Opinion in Genetics and Development</i> , <b>2006</b> , 16, 463-8	4.9	46
48	The adult Drosophila posterior midgut is maintained by pluripotent stem cells. <i>Nature</i> , <b>2006</b> , 439, 470-4	50.4	773
47	Learning the common language of genetics. <i>Genetics</i> , <b>2006</b> , 174, 1-3	4	7
46	New roles for model genetic organisms in understanding and treating human disease: report from the 2006 Genetics Society of America meeting. <i>Genetics</i> , <b>2006</b> , 172, 2025-32	4	28
45	The Drosophila ovarian and testis stem cell niches: similar somatic stem cells and signals. <i>Developmental Cell</i> , <b>2005</b> , 9, 501-10	10.2	252
44	The expression profile of purified Drosophila germline stem cells. <i>Developmental Biology</i> , <b>2005</b> , 283, 486-502	3.1	101
43	Differentiating germ cells can revert into functional stem cells in Drosophila melanogaster ovaries. <i>Nature</i> , <b>2004</b> , 428, 564-9	50.4	273
42	The stem cell niche: theme and variations. <i>Current Opinion in Cell Biology</i> , <b>2004</b> , 16, 693-9	9	281
41	The BDGP gene disruption project: single transposon insertions associated with 40% of Drosophila genes. <i>Genetics</i> , <b>2004</b> , 167, 761-81	4	668
40	Alpha-endosulfine, a potential regulator of insulin secretion, is required for adult tissue growth control in Drosophila. <i>Developmental Biology</i> , <b>2004</b> , 266, 310-21	3.1	33
39	Regulation of chromatin structure and gene activity by poly(ADP-ribose) polymerases. <i>Current Topics in Developmental Biology</i> , <b>2003</b> , 56, 55-83	5.3	50
38	A Balbiani body and the fusome mediate mitochondrial inheritance during Drosophila oogenesis. <i>Development (Cambridge)</i> , <b>2003</b> , 130, 1579-90	6.6	223

37	An empty <i>Drosophila</i> stem cell niche reactivates the proliferation of ectopic cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 4633-8	11.5	233
36	Chromatin loosening by poly(ADP)-ribose polymerase (PARP) at <i>Drosophila</i> puff loci. <i>Science</i> , <b>2003</b> , 299, 560-2	33.3	391
35	The <i>Drosophila</i> heterochromatic gene encoding poly(ADP-ribose) polymerase (PARP) is required to modulate chromatin structure during development. <i>Genes and Development</i> , <b>2002</b> , 16, 2108-19	12.6	163
34	Reflections on the <i>Drosophila</i> genome. <i>Functional and Integrative Genomics</i> , <b>2001</b> , 1, 221-222	3.8	
33	The nuclear location and chromatin organization of active chorion amplification origins. <i>Chromosoma</i> , <b>2001</b> , 110, 159-72	2.8	23
32	Stem cells find their niche. <i>Nature</i> , <b>2001</b> , 414, 98-104	50.4	1171
31	Stem cells and their progeny respond to nutritional changes during <i>Drosophila</i> oogenesis. <i>Developmental Biology</i> , <b>2001</b> , 231, 265-78	3.1	453
30	Mouse ovarian germ cell cysts undergo programmed breakdown to form primordial follicles. <i>Developmental Biology</i> , <b>2001</b> , 234, 339-51	3.1	523
29	The genome sequence of <i>Drosophila melanogaster</i> . <i>Science</i> , <b>2000</b> , 287, 2185-95	33.3	4857
28	Cyclin A associates with the fusome during germline cyst formation in the <i>Drosophila</i> ovary. <i>Developmental Biology</i> , <b>2000</b> , 218, 53-63	3.1	75
27	A niche maintaining germ line stem cells in the <i>Drosophila</i> ovary. <i>Science</i> , <b>2000</b> , 290, 328-30	33.3	644
26	Germline cysts: a conserved phase of germ cell development?. <i>Trends in Cell Biology</i> , <b>1999</b> , 9, 257-62	18.3	191
25	Chorion gene amplification in <i>Drosophila</i> : A model for metazoan origins of DNA replication and S-phase control. <i>Methods</i> , <b>1999</b> , 18, 407-17	4.6	64
24	The Berkeley <i>Drosophila</i> Genome Project gene disruption project: Single P-element insertions mutating 25% of vital <i>Drosophila</i> genes. <i>Genetics</i> , <b>1999</b> , 153, 135-77	4	621
23	decapentaplegic is essential for the maintenance and division of germline stem cells in the <i>Drosophila</i> ovary. <i>Cell</i> , <b>1998</b> , 94, 251-60	56.2	544
22	The Carnegie Institution of Washington, Department of Embryology. <i>Molecular Medicine</i> , <b>1997</b> , 3, 417-419	19.2	2
21	Fusome asymmetry and oocyte determination in <i>Drosophila</i> . <i>Genesis</i> , <b>1995</b> , 16, 6-12		175
20	Unusual properties of genomic DNA molecules spanning the euchromatic-heterochromatic junction of a <i>Drosophila</i> minichromosome. <i>Nucleic Acids Research</i> , <b>1994</b> , 22, 5068-75	20.1	19

19	Germline stem cell division and egg chamber development in transplanted <i>Drosophila</i> germlaria. <i>Developmental Biology</i> , <b>1993</b> , 159, 140-52	3.1	186
18	slow border cells, a locus required for a developmentally regulated cell migration during oogenesis, encodes <i>Drosophila</i> C/EBP. <i>Cell</i> , <b>1992</b> , 71, 51-62	56.2	276
17	Replication forks are not found in a <i>Drosophila</i> minichromosome demonstrating a gradient of polytenization. <i>Chromosoma</i> , <b>1992</b> , 102, 15-9	2.8	32
16	Reduced DNA polytenization of a minichromosome region undergoing position-effect variegation in <i>Drosophila</i> . <i>Cell</i> , <b>1990</b> , 63, 97-107	56.2	128
15	Controlling P element insertional mutagenesis. <i>Trends in Genetics</i> , <b>1988</b> , 4, 254-8	8.5	59
14	Replication and expression of an X-linked cluster of <i>Drosophila</i> chorion genes. <i>Developmental Biology</i> , <b>1986</b> , 117, 294-305	3.1	50
13	Developmentally regulated expression of <i>Drosophila</i> chorion genes introduced at diverse chromosomal positions. <i>Journal of Molecular Biology</i> , <b>1986</b> , 187, 33-45	6.5	51
12	DNA sequence of a 3.8 kilobase pair region controlling <i>Drosophila</i> chorion gene amplification. <i>Chromosoma</i> , <b>1985</b> , 92, 136-42	2.8	70
11	Localization of a cis-acting element responsible for the developmentally regulated amplification of <i>Drosophila</i> chorion genes. <i>Cell</i> , <b>1984</b> , 38, 45-54	56.2	99
10	The effect of chromosomal position on the expression of the <i>Drosophila</i> xanthine dehydrogenase gene. <i>Cell</i> , <b>1983</b> , 34, 47-57	56.2	384
9	Vectors for P element-mediated gene transfer in <i>Drosophila</i> . <i>Nucleic Acids Research</i> , <b>1983</b> , 11, 6341-51	20.1	512
8	Two clusters of genes for major chorion proteins of <i>Drosophila melanogaster</i> . <i>Cell</i> , <b>1980</b> , 19, 905-14	56.2	111
7	Identification and genetic localization of mRNAs from ovarian follicle cells of <i>Drosophila melanogaster</i> . <i>Cell</i> , <b>1979</b> , 16, 589-98	56.2	105
6	<i>Drosophila</i> bearing the ocelliless mutation underproduce two major chorion proteins both of which map near this gene. <i>Cell</i> , <b>1979</b> , 16, 609-16	56.2	35
5	Messenger RNA in heat-shocked <i>Drosophila</i> cells. <i>Journal of Molecular Biology</i> , <b>1977</b> , 109, 559-87	6.5	272
4	Methods with insect cells in suspension culture. II. <i>Drosophila melanogaster</i> . <i>Methods in Cell Biology</i> , <b>1975</b> , 10, 195-208	1.8	32
3	Two very different components of messenger RNA in an insect cell line. <i>Cell</i> , <b>1975</b> , 4, 131-7	56.2	100
2	The messenger-like poly(A)-containing RNA species from the mitochondria of mammals and insects. <i>Cell</i> , <b>1974</b> , 1, 31-35	56.2	64

1 Dietary lipids modulate Notch signaling and influence adult intestinal development and metabolism in *Drosophila*

1