Gerald M Rubin

List of Publications by Year
in descending order

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241	101,479	553 126	1066 233
papers	citations	h-index	g-index

289	289	289	83370
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gene Ontology: tool for the unification of biology. Nature Genetics, 2000, 25, 25-29.	9.4	34,499
2	The Genome Sequence of Drosophila melanogaster. Science, 2000, 287, 2185-2195.	6.0	5,566
3	Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16899-16903.	3.3	1,610
4	Comparative Genomics of the Eukaryotes. Science, 2000, 287, 2204-2215.	6.0	1,573
5	A Whole-Genome Assembly of Drosophila. Science, 2000, 287, 2196-2204.	6.0	1,449
6	A GAL4-Driver Line Resource for Drosophila Neurobiology. Cell Reports, 2012, 2, 991-1001.	2.9	1,287
7	Refinement of Tools for Targeted Gene Expression in Drosophila. Genetics, 2010, 186, 735-755.	1.2	1,006
8	Molecular characterization of the drosophila trp locus: A putative integral membrane protein required for phototransduction. Neuron, 1989, 2, 1313-1323.	3.8	991
9	Structures of P transposable elements and their sites of insertion and excision in the Drosophila melanogaster genome. Cell, 1983, 34, 25-35.	13.5	922
10	Tools for neuroanatomy and neurogenetics in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9715-9720.	3.3	902
11	Ras1 and a putative guanine nucleotide exchange factor perform crucial steps in signaling by the sevenless protein tyrosine kinase. Cell, 1991, 67, 701-716.	13.5	890
12	Creating the Gene Ontology Resource: Design and Implementation. Genome Research, 2001, 11, 1425-1433.	2.4	881
13	Analysis of P transposable element functions in drosophila. Cell, 1984, 38, 135-146.	13.5	854
14	The neuronal architecture of the mushroom body provides a logic for associative learning. ELife, 2014, 3, e04577.	2.8	833
15	The BDGP Gene Disruption Project. Genetics, 2004, 167, 761-781.	1.2	774
16	The Toll and Imd pathways are the major regulators of the immune response in Drosophila. EMBO Journal, 2002, 21, 2568-2579.	3.5	754
17	Drosophila homologs of baculovirus inhibitor of apoptosis proteins function to block cell death. Cell, 1995, 83, 1253-1262.	13.5	735
18	The Berkeley Drosophila Genome Project Gene Disruption Project: Single P-Element Insertions Mutating 25% of Vital Drosophila Genes. Genetics, 1999, 153, 135-177.	1.2	731

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19	The activities of two Ets-related transcription factors required for drosophila eye development are modulated by the Ras/MAPK pathway. Cell, 1994, 78, 137-147.	13.5	688
20	A Computer Program for Aligning a cDNA Sequence with a Genomic DNA Sequence. Genome Research, 1998, 8, 967-974.	2.4	683
21	Isolation of a putative phospholipase c gene of drosophila, norpA, and its role in phototransduction. Cell, 1988, 54, 723-733.	13.5	660
22	Genome-wide analysis of the Drosophila immune response by using oligonucleotide microarrays. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 12590-12595.	3.3	657
23	Tissue specificity of Drosophila P element transposition is regulated at the level of mRNA splicing. Cell, 1986, 44, 7-19.	13.5	648
24	The molecular basis of P-M hybrid dysgenesis: The role of the P element, a P-strain-specific transposon family. Cell, 1982, 29, 995-1004.	13.5	632
25	A visual motion detection circuit suggested by Drosophila connectomics. Nature, 2013, 500, 175-181.	13.7	631
26	Computational identification of Drosophila microRNA genes. Genome Biology, 2003, 4, R42.	13.9	624
27	Drosophila Fragile X-Related Gene Regulates the MAP1B Homolog Futsch to Control Synaptic Structure and Function. Cell, 2001, 107, 591-603.	13.5	602
28	Systematic determination of patterns of gene expression during Drosophila embryogenesis. Genome Biology, 2002, 3, research0088.1.	13.9	600
29	A connectome and analysis of the adult Drosophila central brain. ELife, 2020, 9, .	2.8	596
30	Vectors for P element-mediated gene transfer inDrosophila. Nucleic Acids Research, 1983, 11, 6341-6351.	6.5	576
31	Mushroom body output neurons encode valence and guide memory-based action selection in Drosophila. ELife, 2014, 3, e04580.	2.8	576
32	Cloning of DNA sequences from the white locus of D. melanogaster by a novel and general method. Cell, 1981, 25, 693-704.	13.5	565
33	Exploiting transcription factor binding site clustering to identify cis-regulatory modules involved in pattern formation in the Drosophila genome. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 757-762.	3.3	541
34	Comparative Genome and Proteome Analysis ofAnopheles gambiaeandDrosophila melanogaster. Science, 2002, 298, 149-159.	6.0	531
35	A subset of dopamine neurons signals reward for odour memory in Drosophila. Nature, 2012, 488, 512-516.	13.7	520
36	The molecular basis of P-M hybrid dysgenesis: The nature of induced mutations. Cell, 1982, 29, 987-994.	13.5	517

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37	Isolation and structure of a rhodopsin gene from D. melanogaster. Cell, 1985, 40, 851-858.	13.5	502
38	Gene disruptions using P transposable elements: an integral component of the Drosophila genome project.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 10824-10830.	3.3	493
39	An SH3-SH2-SH3 protein is required for p21Ras1 activation and binds to sevenless and Sos proteins in vitro. Cell, 1993, 73, 169-177.	13.5	492
40	Kuzbanian Controls Proteolytic Processing of Notch and Mediates Lateral Inhibition during Drosophila and Vertebrate Neurogenesis. Cell, 1997, 90, 271-280.	13.5	488
41	The drosophila seven-up gene, a member of the steroid receptor gene superfamily, controls photoreceptor cell fates. Cell, 1990, 60, 211-224.	13.5	484
42	Optimized tools for multicolor stochastic labeling reveal diverse stereotyped cell arrangements in the fly visual system. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2967-76.	3.3	481
43	The transposable elements of the Drosophila melanogaster euchromatin: a genomics perspective. Genome Biology, 2002, 3, research0084.1.	13.9	467
44	Transformation of white locus DNA in Drosophila: Dosage compensation, zeste interaction, and position effects. Cell, 1984, 36, 469-481.	13.5	455
45	Making a difference: The role of cell-cell interactions in establishing separate identities for equivalent cells. Cell, 1992, 68, 271-281.	13.5	454
46	The Role of the Genome Project in Determining Gene Function: Insights from Model Organisms. Cell, 1996, 86, 521-529.	13.5	451
47	The effect of chromosomal position on the expression of the drosophila xanthine dehydrogenase gene. Cell, 1983, 34, 47-57.	13.5	433
48	Drosophila p53 Binds a Damage Response Element at the reaper Locus. Cell, 2000, 101, 103-113.	13.5	432
49	Evidence for large domains of similarly expressed genes in the Drosophila genome. , 2002, 1, 5.		422
50	The TGFÎ² homolog dpp and the segment polarity gene hedgehog are required for propagation of a morphogenetic wave in the Drosophila retina. Cell, 1993, 75, 913-926.	13.5	417
51	Global analysis of patterns of gene expression during Drosophila embryogenesis. Genome Biology, 2007, 8, R145.	13.9	387
52	KSR, a novel protein kinase required for RAS signal transduction. Cell, 1995, 83, 879-888.	13.5	380
53	Computational analysis of core promoters in the Drosophila genome. Genome Biology, 2002, 3, research0087.1.	13.9	374
54	The FlyBase database of the Drosophila genome projects and community literature. Nucleic Acids Research, 2003, 31, 172-175.	6.5	372

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55	Identification and immunochemical analysis of biologically active Drosophila P element transposase. Cell, 1986, 44, 21-32.	13.5	368
56	Using translational enhancers to increase transgene expression in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6626-6631.	3.3	362
57	The Release 6 reference sequence of the Drosophila melanogaster genome. Genome Research, 2015, 25, 445-458.	2.4	359
58	A Drosophila Complementary DNA Resource. Science, 2000, 287, 2222-2224.	6.0	337
59	DNA sequence of the white locus of Drosophila melanogaster. Journal of Molecular Biology, 1984, 180, 437-455.	2.0	331
60	Yan functions as a general inhibitor of differentiation and is negatively regulated by activation of the Ras1/MAPK pathway. Cell, 1995, 81, 857-866.	13.5	331
61	Signalling by the sevenless protein tyrosine kinase is mimicked by Rasl activation. Nature, 1992, 355, 559-561.	13.7	330
62	The Drosophila peanut gene is required for cytokinesis and encodes a protein similar to yeast putative bud neck filament proteins. Cell, 1994, 77, 371-379.	13.5	329
63	A directional tuning map of Drosophila elementary motion detectors. Nature, 2013, 500, 212-216.	13.7	327
64	The Nucleotide Sequence of Saccharomyces cerevisiae 5.8 S Ribosomal Ribonucleic Acid. Journal of Biological Chemistry, 1973, 248, 3860-3875.	1.6	326
65	Transposition of elements of the 412, copia and 297 dispersed repeated gene families in drosophila. Cell, 1979, 17, 415-427.	13.5	316
66	seven in absentia, a gene required for specification of R7 cell fate in the Drosophila eye. Cell, 1990, 63, 561-577.	13.5	314
67	Finishing a whole-genome shotgun: release 3 of the Drosophila melanogaster euchromatic genome sequence. Genome Biology, 2002, 3, research0079.1.	13.9	313
68	The Drosophila ninaC locus encodes two photoreceptor cell specific proteins with domains homologous to protein kinases and the myosin heavy chain head. Cell, 1988, 52, 757-772.	13.5	312
69	A putative Ras GTPase activating protein acts as a negative regulator of signaling by the Sevenless receptor tyrosine kinase. Cell, 1992, 68, 1007-1019.	13.5	311
70	Annotation of the Drosophila melanogaster euchromatic genome: a systematic review. Genome Biology, 2002, 3, research0083.1.	13.9	308
71	A connectome of a learning and memory center in the adult Drosophila brain. ELife, 2017, 6, .	2.8	308
72	Drosophila Neuralized Is a Ubiquitin Ligase that Promotes the Internalization and Degradation of Delta. Developmental Cell, 2001, 1, 783-794.	3.1	302

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73	Mutations in Hsp83 and cdc37 impair signaling by the sevenless receptor tyrosine kinase in Drosophila. Cell, 1994, 77, 1027-1036.	13.5	300
74	Targeted mutagenesis by homologous recombination in D. melanogaster. Genes and Development, 2002, 16, 1568-1581.	2.7	298
75	Heterosynaptic Plasticity Underlies Aversive Olfactory Learning in Drosophila. Neuron, 2015, 88, 985-998.	3.8	294
76	Drosophila melanogaster MNK/Chk2 and p53 Regulate Multiple DNA Repair and Apoptotic Pathways following DNA Damage. Molecular and Cellular Biology, 2004, 24, 1219-1231.	1.1	284
77	Cortical column and whole-brain imaging with molecular contrast and nanoscale resolution. Science, 2019, 363, .	6.0	277
78	Localization of the sevenless protein, a putative receptor for positional information, in the eye imaginal disc of Drosophila. Cell, 1987, 51, 143-150.	13.5	276
79	Neuroarchitecture and neuroanatomy of the Drosophila central complex: A GAL4â€based dissection of protocerebral bridge neurons and circuits. Journal of Comparative Neurology, 2015, 523, 997-1037.	0.9	273
80	Negative control of photoreceptor development in Drosophila by the product of the yan gene, an ETS domain protein. Cell, 1992, 70, 609-620.	13.5	263
81	Pervasive regulation of Drosophila Notch target genes by GY-box-, Brd-box-, and K-box-class microRNAs. Genes and Development, 2005, 19, 1067-1080.	2.7	259
82	gigas, a Drosophila Homolog of Tuberous Sclerosis Gene Product-2, Regulates the Cell Cycle. Cell, 1999, 96, 529-539.	13.5	252
83	Drosophila microRNAs exhibit diverse spatial expression patterns during embryonic development. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18017-18022.	3.3	252
84	A Screen for Genes That Function Downstream of Ras1 During Drosophila Eye Development. Genetics, 1996, 143, 315-329.	1.2	251
85	cAMP-dependent protein kinase and hedgehog act antagonistically in regulating decapentaplegic transcription in drosophila imaginal discs. Cell, 1995, 80, 543-552.	13.5	250
86	disconnected: A locus required for neuronal pathway formation in the visual system of drosophila. Cell, 1987, 50, 1139-1153.	13.5	244
87	The argos gene encodes a diffusible factor that regulates cell fate decisions in the drosophila eye. Cell, 1992, 69, 963-975.	13.5	244
88	Mushroom body efferent neurons responsible for aversive olfactory memory retrieval in Drosophila. Nature Neuroscience, 2011, 14, 903-910.	7.1	244
89	The glass gene encodes a zinc-finger protein required by Drosophila photoreceptor cells. Nature, 1989, 340, 531-536.	13.7	238
90	Polymorphisms in the chromosomal locations of elements of the 412, copia and 297 dispersed repeated gene families in drosophila. Cell, 1979, 17, 429-439.	13.5	236

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91	Analysis of the Promoter of the ninaE Opsin Gene in Drosophila melanogaster. Genetics, 1987, 116, 565-578.	1.2	236
92	Dopaminergic neurons write and update memories with cell-type-specific rules. ELife, 2016, 5, .	2.8	235
93	Human DNA sequences homologous to a protein coding region conserved between homeotic genes of Drosophila. Cell, 1984, 38, 667-673.	13.5	232
94	Mutations in the drosophila Rop gene suggest a function in general secretion and synaptic transmission. Neuron, 1994, 13, 555-566.	3.8	232
95	Heterochromatic sequences in a Drosophila whole-genome shotgun assembly. Genome Biology, 2002, 3, research0085.1.	13.9	232
96	The connectome of the adult Drosophila mushroom body provides insights into function. ELife, 2020, 9, .	2.8	231
97	Effect on eye development of dominant mutations in Drosophila homologue of the EGF receptor. Nature, 1989, 340, 150-153.	13.7	228
98	Drosophila Matrix Metalloproteinases Are Required for Tissue Remodeling, but Not Embryonic Development. Developmental Cell, 2003, 4, 95-106.	3.1	227
99	High-performance probes for light and electron microscopy. Nature Methods, 2015, 12, 568-576.	9.0	225
100	The Ras signaling pathway in Drosophila. Current Opinion in Genetics and Development, 1995, 5, 44-50.	1.5	223
101	PHYL Acts to Down-Regulate TTK88, a Transcriptional Repressor of Neuronal Cell Fates, by a SINA-Dependent Mechanism. Cell, 1997, 90, 459-467.	13.5	222
102	The glia of the adult <scp>D</scp>rosophila nervous system. Glia, 2017, 65, 606-638.	2.5	218
103	A Brief History of Drosophila's Contributions to Genome Research. Science, 2000, 287, 2216-2218.	6.0	216
104	Distinct dopamine neurons mediate reward signals for short- and long-term memories. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 578-583.	3.3	205
105	rough, a Drosophila homeobox gene required in photoreceptors R2 and R5 for inductive interactions in the developing eye. Cell, 1988, 55, 771-784.	13.5	200
106	Visual projection neurons in the Drosophila lobula link feature detection to distinct behavioral programs. ELife, 2016, 5, .	2.8	200
107	Mapping the Neural Substrates of Behavior. Cell, 2017, 170, 393-406.e28.	13.5	196
108	Identification of Constitutive and Ras-Inducible Phosphorylation Sites of KSR: Implications for 14-3-3 Binding, Mitogen-Activated Protein Kinase Binding, and KSR Overexpression. Molecular and Cellular Biology, 1999, 19, 229-240.	1.1	194

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109	Contributions of the 12 Neuron Classes in the Fly Lamina to Motion Vision. Neuron, 2013, 79, 128-140.	3.8	191
110	Computational identification of developmental enhancers: conservation and function of transcription factor binding-site clusters in Drosophila melanogaster and Drosophila pseudoobscura. Genome Biology, 2004, 5, R61.	13.9	184
111	The cell surface metalloprotease/disintegrin Kuzbanian is required for axonal extension in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 13233-13238.	3.3	181
112	The Drosophila Gene Collection: Identification of Putative Full-Length cDNAs for 70% of D. melanogaster Genes. Genome Research, 2002, 12, 1294-1300.	2.4	180
113	The embryonic expression patterns of zfh-1 and zfh-2, two Drosophila genes encoding novel zinc-finger homeodomain proteins. Mechanisms of Development, 1991, 34, 123-134.	1.7	179
114	Insertion of the drosophila transposable element copia generates a 5 base pair duplication. Cell, 1980, 21, 575-579.	13.5	178
115	Chapter 4 Preparation of RNA and Ribosomes from Yeast. Methods in Cell Biology, 1975, 12, 45-64.	0.5	171
116	P1 interneurons promote a persistent internal state that enhances inter-male aggression in Drosophila. ELife, 2015, 4, .	2.8	169
117	Effects of transposable element insertions on RNA encoded by the white gene of Drosophila. Cell, 1984, 38, 471-481.	13.5	168
118	A connectome of the Drosophila central complex reveals network motifs suitable for flexible navigation and context-dependent action selection. ELife, 2021, 10, .	2.8	168
119	CNK, a RAF-Binding Multidomain Protein Required for RAS Signaling. Cell, 1998, 95, 343-353.	13.5	166
120	The comprehensive connectome of a neural substrate for â€˜ONâ€™ motion detection in Drosophila. ELife, 2017, 6, .	2.8	166
121	ARGONAUTE1 is required for efficient RNA interference in Drosophila embryos. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6889-6894.	3.3	164
122	A Drosophila full-length cDNA resource. Genome Biology, 2002, 3, research0080.1.	13.9	163
123	Genetic Reagents for Making Split-GAL4 Lines in Drosophila. Genetics, 2018, 209, 31-35.	1.2	162
124	KSR stimulates Raf-1 activity in a kinase-independent manner. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 12792-12796.	3.3	161
125	A genetic, genomic, and computational resource for exploring neural circuit function. ELife, 2020, 9, .	2.8	159
126	Shared mushroom body circuits underlie visual and olfactory memories in Drosophila. ELife, 2014, 3, e02395.	2.8	158

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127	Terminal repeats of the drosophila transposable element copia: Nucleotide sequence and genomic organization. Cell, 1980, 21, 581-588.	13.5	157
128	The Drosophila zfh-1 and zfh-2 genes encode novel proteins containing both zinc-finger and homeodomain motifs. Mechanisms of Development, 1991, 34, 113-122.	1.7	156
129	Multiple new site-specific recombinases for use in manipulating animal genomes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14198-14203.	3.3	154
130	Synaptic function modulated by changes in the ratio of synaptotagmin I and IV. Nature, 1999, 400, 757-760.	13.7	149
131	The Emergence of Directional Selectivity in the Visual Motion Pathway of Drosophila. Neuron, 2017, 94, 168-182.e10.	3.8	146
132	A BAC-Based Physical Map of the Major Autosomes of Drosophila melanogaster. Science, 2000, 287, 2271-2274.	6.0	142
133	The ubiquitin ligase Drosophila Mind bomb promotes Notch signaling by regulating the localization and activity of Serrate and Delta. Development (Cambridge), 2005, 132, 2319-2332.	1.2	142
134	Plasticity-driven individualization of olfactory coding in mushroom body output neurons. Nature, 2015, 526, 258-262.	13.7	142
135	A Higher Brain Circuit for Immediate Integration of Conflicting Sensory Information in Drosophila. Current Biology, 2015, 25, 2203-2214.	1.8	142
136	An opsin gene expressed in only one photoreceptor cell type of the Drosophila eye. Cell, 1986, 44, 705-710.	13.5	140
137	Insertion site preferences of the P transposable element in Drosophila melanogaster. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 3347-51.	3.3	137
138	A Genetic Screen for Novel Components of the Ras/Mitogen-Activated Protein Kinase Signaling Pathway That Interact With the yan Gene of Drosophila Identifies split ends, a New RNA Recognition Motif-Containing Protein. Genetics, 2000, 154, 695-712.	1.2	134
139	Propagation of Homeostatic Sleep Signals by Segregated Synaptic Microcircuits of the Drosophila Mushroom Body. Current Biology, 2015, 25, 2915-2927.	1.8	133
140	The Drosophila Roughened mutation: Activation of a rap homolog disrupts eye development and interferes with cell determination. Cell, 1991, 67, 717-722.	13.5	132
141	Ellipse mutations in the Drosophila homologue of the EGF receptor affect pattern formation, cell division, and cell death in eye imaginal discs. Developmental Biology, 1992, 150, 381-396.	0.9	131
142	Three Forms of the 5.8-S Ribosomal RNA Species in Saccharomyces cerevisiae. FEBS Journal, 1974, 41, 197-202.	0.2	129
143	Complete Connectomic Reconstruction of Olfactory Projection Neurons in the Fly Brain. Current Biology, 2020, 30, 3183-3199.e6.	1.8	128
144	The Mind of a Mouse. Cell, 2020, 182, 1372-1376.	13.5	127

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145	Reward signal in a recurrent circuit drives appetitive long-term memory formation. ELife, 2015, 4, e10719.	2.8	127
146	Neurogenetic dissection of the Drosophila lateral horn reveals major outputs, diverse behavioural functions, and interactions with the mushroom body. ELife, 2019, 8, .	2.8	124
147	phyllopod functions in the fate determination of a subset of photoreceptors in drosophila. Cell, 1995, 80, 463-472.	13.5	122
148	Ultra-selective looming detection from radial motion opponency. Nature, 2017, 551, 237-241.	13.7	121
149	Assessing the impact of comparative genomic sequence data on the functional annotation of the Drosophila genome. Genome Biology, 2002, 3, research0086.1.	13.9	120
150	Neuroarchitecture of the Drosophila central complex: A catalog of nodulus and asymmetrical body neurons and a revision of the protocerebral bridge catalog. Journal of Comparative Neurology, 2018, 526, 2585-2611.	0.9	120
151	Direct neural pathways convey distinct visual information to Drosophila mushroom bodies. ELife, 2016, 5, .	2.8	119
152	A Survey of 6,300 Genomic Fragments for cis-Regulatory Activity in the Imaginal Discs of Drosophila melanogaster. Cell Reports, 2012, 2, 1014-1024.	2.9	115
153	Effect of heat shock on the synthesis of low molecular weight RNAs in drosophila: Accumulation of a novel form of 5S RNA. Cell, 1975, 6, 207-213.	13.5	114
154	Quantitative Analysis of Bristle Number in Drosophila Mutants Identifies Genes Involved in Neural Development. Current Biology, 2003, 13, 1388-1396.	1.8	113
155	A Resource for Manipulating Gene Expression and Analyzing cis-Regulatory Modules in the Drosophila CNS. Cell Reports, 2012, 2, 1002-1013.	2.9	113
156	Representations of Novelty and Familiarity in a Mushroom Body Compartment. Cell, 2017, 169, 956-969.e17.	13.5	113
157	Identification of putative noncoding polyadenylated transcripts in Drosophila melanogaster. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5495-5500.	3.3	112
158	THEDROSOPHILAMELANOGASTERGENOME. Annual Review of Genomics and Human Genetics, 2003, 4, 89-117.	2.5	111
159	Neural Circuit to Integrate Opposing Motions in the Visual Field. Cell, 2015, 162, 351-362.	13.5	111
160	A high throughput screen to identify secreted and transmembrane proteins involved in Drosophila embryogenesis. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9973-9978.	3.3	108
161	Physical linkage of the 5 S cistrons to the 18 S and 28 S ribosomal RNA cistrons in Saccharomyces cerevisiae. Journal of Molecular Biology, 1973, 79, 521-530.	2.0	105
162	mus304 encodes a novel DNA damage checkpoint protein required during Drosophila development. Genes and Development, 2000, 14, 666-678.	2.7	105

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163	A Misexpression Screen Identifies Genes That Can Modulate RAS1 Pathway Signaling in Drosophila melanogaster. Genetics, 2000, 156, 1219-1230.	1.2	101
164	P element insertion-dependent gene activation in the Drosophila eye. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 5195-5200.	3.3	99
165	Neuron hemilineages provide the functional ground plan for the Drosophila ventral nervous system. ELife, 2015, 4, .	2.8	97
166	FB elements are the common basis for the instability of the wDZL and wc Drosophila mutations. Cell, 1982, 30, 551-565.	13.5	95
167	The Neuroanatomical Ultrastructure and Function of a Biological Ring Attractor. Neuron, 2020, 108, 145-163.e10.	3.8	92
168	Information flow, cell types and stereotypy in a full olfactory connectome. ELife, 2021, 10, .	2.8	92
169	Nitric oxide acts as a cotransmitter in a subset of dopaminergic neurons to diversify memory dynamics. ELife, 2019, 8, .	2.8	91
170	A Genetic Screen to Identify Components of the sina Signaling Pathway in Drosophila Eye Development. Genetics, 1998, 148, 277-286.	1.2	90
171	neuralized Functions Cell-Autonomously to Regulate a Subset of Notch-Dependent Processes during Adult Drosophila Development. Developmental Biology, 2001, 231, 217-233.	0.9	85
172	Complementary miRNA pairs suggest a regulatory role for miRNA:miRNA duplexes. Rna, 2004, 10, 171-175.	1.6	82
173	A Dopamine-Modulated Neural Circuit Regulating Aversive Taste Memory in Drosophila. Current Biology, 2015, 25, 1535-1541.	1.8	82
174	A Genetic Screen for Modifiers of a Kinase Suppressor of Ras-Dependent Rough Eye Phenotype in Drosophila. Genetics, 2000, 156, 1231-1242.	1.2	82
175	Development of the Drosophila retina: Inductive events studied at single cell resolution. Cell, 1989, 57, 519-520.	13.5	81
176	Communication from Learned to Innate Olfactory Processing Centers Is Required for Memory Retrieval in Drosophila. Neuron, 2018, 100, 651-668.e8.	3.8	80
177	Comparing species. Nature, 2001, 409, 820-821.	13.7	77
178	Control of Sleep by Dopaminergic Inputs to the Drosophila Mushroom Body. Frontiers in Neural Circuits, 2015, 9, 73.	1.4	77
179	A Circuit Node that Integrates Convergent Input from Neuromodulatory and Social Behavior-Promoting Neurons to Control Aggression in Drosophila. Neuron, 2017, 95, 1112-1128.e7.	3.8	77
180	Dispersed Repetitive DNAs in Drosophila. , 1983, , 329-361.		76

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181	The 5â€² termini of RNAs encoded by the transposable element copia. Nucleic Acids Research, 1981, 9, 6279-6291.	6.5	74
182	Global analyses of mRNA translational control during early Drosophila embryogenesis. Genome Biology, 2007, 8, R63.	13.9	74
183	A Genetic Screen to Identify Components of the sina Signaling Pathway in Drosophila Eye Development. Genetics, 1998, 148, 277-286.	1.2	74
184	PTP-ER, a Novel Tyrosine Phosphatase, Functions Downstream of Ras1 to Downregulate MAP Kinase during Drosophila Eye Development. Molecular Cell, 1999, 3, 741-750.	4.5	71
185	Ommatidia in the developing Drosophila eye require and can respond to sevenless for only a restricted period. Cell, 1989, 56, 931-936.	13.5	69
186	Large-Scale Trends in the Evolution of Gene Structures within 11 Animal Genomes. PLoS Computational Biology, 2006, 2, e15.	1.5	69
187	Star Is Required for Neuronal Differentiation in the Drosophila Retina and Displays Dosage-Sensitive Interactions with Ras1. Developmental Biology, 1993, 160, 51-63.	0.9	68
188	An expectation maximization algorithm for training hidden substitution models 1 1Edited by F. Cohen. Journal of Molecular Biology, 2002, 317, 753-764.	2.0	68
189	Cathepsin D-deficient Drosophila recapitulate the key features of neuronal ceroid lipofuscinoses. Neurobiology of Disease, 2005, 19, 194-199.	2.1	68
190	The unstable wdzl mutation of Drosophila is caused by a 13 kilobase insertion that is imprecisely excised in phenotypic revertants. Cell, 1982, 30, 543-550.	13.5	65
191	Moonwalker Descending Neurons Mediate Visually Evoked Retreat in Drosophila. Current Biology, 2017, 27, 766-771.	1.8	62
192	Cell types and neuronal circuitry underlying female aggression in Drosophila. ELife, 2020, 9, .	2.8	62
193	Molecular analysis of no-on-transient A, a gene required for normal vision in drosophila. Neuron, 1990, 4, 711-723.	3.8	61
194	Drosophila and human RecQ5 exist in different isoforms generated by alternative splicing. Nucleic Acids Research, 1999, 27, 3762-3769.	6.5	61
195	Wide-Field Feedback Neurons Dynamically Tune Early Visual Processing. Neuron, 2014, 82, 887-895.	3.8	57
196	The optic lobe projection pattern of polarization-sensitive photoreceptor cells in Drosophila melanogaster. Cell and Tissue Research, 1991, 265, 185-191.	1.5	56
197	High-frequency precise excision of the Drosophila foldback transposable element. Nature, 1983, 303, 259-260.	13.7	52
198	Input Connectivity Reveals Additional Heterogeneity of Dopaminergic Reinforcement in Drosophila. Current Biology, 2020, 30, 3200-3211.e8.	1.8	52

#	Article	IF	Citations
199	Ectopic expression of a minor Drosophila opsin in the major photoreceptor cell class: Distinguishing the role of primary receptor and cellular context. Cell, 1988, 53, 475-482.	13.5	51
200	Star is required in a subset of photoreceptor cells in the developing Drosophila retina and displays dosage sensitive interactions with rough. Developmental Biology, 1991, 144, 353-361.	0.9	51
201	Evidence for Drosophila P element transposase activity in mammalian cells and yeast. Journal of Molecular Biology, 1988, 200, 411-415.	2.0	49
202	misshapen encodes a protein kinase involved in cell shape control in Drosophila. Gene, 1997, 186, 119-125.	1.0	49
203	Structure of chromosomal rearrangements induced by the FB transposable element in Drosophila. Nature, 1984, 308, 323-327.	13.7	48
204	Nurturing interdisciplinary research. Nature Structural and Molecular Biology, 2004, 11, 1166-1169.	3.6	44
205	Y chromosome and other heterochromatic sequences of the Drosophila melanogaster genome: how far can we go?. Genetica, 2003, 117, 227-237.	0.5	43
206	The Drosophila synaptotagmin-like protein bitesize is required for growth and has mRNA localization sequences within its open reading frame. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13368-13373.	3.3	42
207	A functionally ordered visual feature map in the Drosophila brain. Neuron, 2022, 110, 1700-1711.e6.	3.8	41
208	Spatial readout of visual looming in the central brain of Drosophila. ELife, 2020, 9, .	2.8	37
209	P transposable elements and their use as genetic tools in drosophila. Trends in Neurosciences, 1985, 8, 231-233.	4.2	34
210	Synaptic targets of photoreceptors specialized to detect color and skylight polarization in Drosophila. ELife, 2021, 10, .	2.8	33
211	A computational and experimental approach to validating annotations and gene predictions in the Drosophila melanogaster genome. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1566-1571.	3.3	32
212	The Ca2+-Calmodulin-Activated Protein Phosphatase Calcineurin Negatively Regulates Egf Receptor Signaling in Drosophila Development. Genetics, 2002, 161, 183-193.	1.2	31
213	Quick Preparation of Genomic DNA from Drosophila. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5198.	0.2	29
214	The presumptive R7 cell of the developing Drosophila eye receives positional information independent of sevenless, boss and sina. Mechanisms of Development, 1992, 37, 37-42.	1.7	28
215	BioViews: Java-Based Tools for Genomic Dataâ€‰Visualization. Genome Research, 1998, 8, 291-305.	2.4	28
216	The effort to make mosaic analysis a household tool. Development (Cambridge), 2012, 139, 4501-4503.	1.2	27

#	Article	IF	Citations
217	The Drosophila genome project: a progress report. Trends in Genetics, 1998, 14, 340-343.	2.9	26
218	Mutations on the Second Chromosome Affecting theDrosophilaEye. Journal of Neurogenetics, 1992, 8, 85-100.	0.6	24
219	The Drosophila melanogaster ribosomal S6 kinase II-encoding sequence. Gene, 1994, 144, 309-310.	1.0	24
220	Recovery of DNA Sequences Flanking P-Element Insertions in Drosophila: Inverse PCR and Plasmid Rescue. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5199.	0.2	23
221	The C-terminus of the homeodomain is required for functional specificity of the Drosophila rough gene. Mechanisms of Development, 1994, 48, 35-49.	1.7	22
222	Targets of glass regulation in the Drosophila eye disc. Mechanisms of Development, 1996, 56, 17-24.	1.7	20
223	Janelia Farm: An Experiment in Scientific Culture. Cell, 2006, 125, 209-212.	13.5	19
224	A Drosophila gene regulated by rough and glass shows similarity to ena and VASP. Gene, 1996, 183, 103-108.	1.0	17
225	Location and magnification of 5 S RNA genes in Saccharomyces cerevisiae. Journal of Molecular Biology, 1976, 107, 385-390.	2.0	12
226	Toward nanoscale localization of memory engrams inDrosophila. Journal of Neurogenetics, 2020, 34, 151-155.	0.6	12
227	Pk92b: a drosophila melanogaster protein kinase that belongs to the mekk family. Gene, 1996, 169, 283-284.	1.0	10
228	Comparative Analysis of Spatial Patterns of Gene Expression in DrosophilaÂmelanogaster Imaginal Discs. , 2007, , 533-547.		9
229	The development of the Drosophila visual system. , 1998, , 474-508.		9
230	Biological Annotation of the Drosophila Genome Sequence. Novartis Foundation Symposium, 2008, , 79-83.	1.2	8
231	A Genetic, Genomic, and Computational Resource for Exploring Neural Circuit Function. SSRN Electronic Journal, 0, , .	0.4	6
232	Identification of ras Targets using a Genetic Approach. Novartis Foundation Symposium, 1993, 176, 85-95.	1.2	6
233	Looking back and looking forward at Janelia. ELife, 2019, 8, .	2.8	4
234	Neuroarchitecture and neuroanatomy of theDrosophilacentral complex: A GAL4-based dissection of protocerebral bridge neurons and circuits. Journal of Comparative Neurology, 2015, 523, Spc1-Spc1.	0.9	3

#	Article	IF	Citations
235	FlyBook: A Preface. Genetics, 2015, 201, 343-343.	1.2	1
236	Biological and computational annotation of the Drosophila Genome Sequence. , 2002, , .		0
237	TRANSPOSABLE ELEMENTS IN THE DROSOPHILA GENOME1. , 1980, , 235-241.		0
238	The Use of Transposable Elements as Vectors for Gene Transfer in Drosophila. , 1984, , 107-111.		0
239	P Transposable Elements and Their Use as Vectors for Gene Transfer in Drosophila. , 1987, , 131-138.		0
240	Sev. , 1995, , 204-207.		0
241	Correction: Nitric oxide acts as a cotransmitter in a subset of dopaminergic neurons to diversify memory dynamics. ELife, 2020, 9, .	2.8	0