

Barry J Dickson

List of Publications by Year in descending order

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108
papers

20,967
citations

14655

66
h-index

25787

108
g-index

130
all docs

130
docs citations

130
times ranked

15906
citing authors

#	ARTICLE	IF	CITATIONS
1	A genome-wide transgenic RNAi library for conditional gene inactivation in <i>Drosophila</i> . <i>Nature</i> , 2007, 448, 151-156.	27.8	2,421
2	Molecular Mechanisms of Axon Guidance. <i>Science</i> , 2002, 298, 1959-1964.	12.6	1,292
3	Molecular, Anatomical, and Functional Organization of the <i>Drosophila</i> Olfactory System. <i>Current Biology</i> , 2005, 15, 1535-1547.	3.9	845
4	A single class of olfactory neurons mediates behavioural responses to a <i>Drosophila</i> sex pheromone. <i>Nature</i> , 2007, 446, 542-546.	27.8	662
5	The <i>Drosophila</i> Tuberous Sclerosis Complex Gene Homologs Restrict Cell Growth and Cell Proliferation. <i>Cell</i> , 2001, 105, 345-355.	28.9	516
6	Neural Circuitry that Governs <i>Drosophila</i> Male Courtship Behavior. <i>Cell</i> , 2005, 121, 795-807.	28.9	515
7	Dispatched, a Novel Sterol-Sensing Domain Protein Dedicated to the Release of Cholesterol-Modified Hedgehog from Signaling Cells. <i>Cell</i> , 1999, 99, 803-815.	28.9	502
8	A receptor that mediates the post-mating switch in <i>Drosophila</i> reproductive behaviour. <i>Nature</i> , 2008, 451, 33-37.	27.8	464
9	Genetic Analysis of Netrin Genes in <i>Drosophila</i> : Netrins Guide CNS Commissural Axons and Peripheral Motor Axons. <i>Neuron</i> , 1996, 17, 203-215.	8.1	423
10	fruitless Splicing Specifies Male Courtship Behavior in <i>Drosophila</i> . <i>Cell</i> , 2005, 121, 785-794.	28.9	423
11	Genome-scale functional characterization of <i>Drosophila</i> developmental enhancers in vivo. <i>Nature</i> , 2014, 512, 91-95.	27.8	422
12	The <i>Drosophila</i> pheromone cVA activates a sexually dimorphic neural circuit. <i>Nature</i> , 2008, 452, 473-477.	27.8	343
13	The DrosDel Collection. <i>Genetics</i> , 2004, 167, 797-813.	2.9	342
14	Rho GTPases in growth cone guidance. <i>Current Opinion in Neurobiology</i> , 2001, 11, 103-110.	4.2	329
15	Rac function and regulation during <i>Drosophila</i> development. <i>Nature</i> , 2002, 416, 438-442.	27.8	329
16	A directional tuning map of <i>Drosophila</i> elementary motion detectors. <i>Nature</i> , 2013, 500, 212-216.	27.8	327
17	Raf functions downstream of Ras1 in the Sevenless signal transduction pathway. <i>Nature</i> , 1992, 360, 600-603.	27.8	326
18	Cellular Organization of the Neural Circuit that Drives <i>Drosophila</i> Courtship Behavior. <i>Current Biology</i> , 2010, 20, 1602-1614.	3.9	325

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19	Neuronal Control of <i>Drosophila</i> Courtship Song. <i>Neuron</i> , 2011, 69, 509-522.	8.1	322
20	Regulation of Commissural Axon Pathfinding by Slit and its Robo Receptors. <i>Annual Review of Cell and Developmental Biology</i> , 2006, 22, 651-675.	9.4	314
21	Rac GTPases control axon growth, guidance and branching. <i>Nature</i> , 2002, 416, 442-447.	27.8	302
22	Sex Peptide Receptor and Neuronal TOR/S6K Signaling Modulate Nutrient Balancing in <i>Drosophila</i> . <i>Current Biology</i> , 2010, 20, 1000-1005.	3.9	293
23	Comm Sorts Robo to Control Axon Guidance at the <i>Drosophila</i> Midline. <i>Cell</i> , 2002, 110, 415-427.	28.9	289
24	Systematic genetic analysis of muscle morphogenesis and function in <i>Drosophila</i> . <i>Nature</i> , 2010, 464, 287-291.	27.8	285
25	Trio Combines with Dock to Regulate Pak Activity during Photoreceptor Axon Pathfinding in <i>Drosophila</i> . <i>Cell</i> , 2000, 101, 283-294.	28.9	284
26	Genome-wide analysis of Notch signalling in <i>Drosophila</i> by transgenic RNAi. <i>Nature</i> , 2009, 458, 987-992.	27.8	283
27	Selecting a Longitudinal Pathway. <i>Cell</i> , 2000, 103, 1033-1045.	28.9	275
28	Short- and Long-Range Repulsion by the <i>Drosophila</i> Unc5 Netrin Receptor. <i>Neuron</i> , 2001, 32, 605-617.	8.1	270
29	Sexual Dimorphism in the Fly Brain. <i>Current Biology</i> , 2010, 20, 1589-1601.	3.9	270
30	Wired for Sex: The Neurobiology of <i>Drosophila</i> Mating Decisions. <i>Science</i> , 2008, 322, 904-909.	12.6	268
31	Sensory Neurons in the <i>Drosophila</i> Genital Tract Regulate Female Reproductive Behavior. <i>Neuron</i> , 2009, 61, 511-518.	8.1	253
32	Cell-Type-Specific TEV Protease Cleavage Reveals Cohesin Functions in <i>Drosophila</i> Neurons. <i>Developmental Cell</i> , 2008, 14, 239-251.	7.0	251
33	Function of the <i>Drosophila</i> CPEB protein Orb2 in long-term courtship memory. <i>Nature Neuroscience</i> , 2007, 10, 1587-1593.	14.8	234
34	Flybow: genetic multicolor cell labeling for neural circuit analysis in <i>Drosophila melanogaster</i> . <i>Nature Methods</i> , 2011, 8, 260-266.	19.0	206
35	Dscam diversity is essential for neuronal wiring and self-recognition. <i>Nature</i> , 2007, 449, 223-227.	27.8	197
36	Dopamine neurons modulate pheromone responses in <i>Drosophila</i> courtship learning. <i>Nature</i> , 2012, 489, 145-149.	27.8	192

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37	Neuronal Control of <i>Drosophila</i> Walking Direction. <i>Science</i> , 2014, 344, 97-101.	12.6	186
38	Crossing the Midline. <i>Neuron</i> , 2000, 28, 767-777.	8.1	185
39	Identification of an Axonal Kinesin-3 Motor for Fast Anterograde Vesicle Transport that Facilitates Retrograde Transport of Neuropeptides. <i>Molecular Biology of the Cell</i> , 2008, 19, 274-283.	2.1	163
40	fruitless regulates aggression and dominance in <i>Drosophila</i> . <i>Nature Neuroscience</i> , 2006, 9, 1469-1471.	14.8	162
41	A Comprehensive Wiring Diagram of the Protocerebral Bridge for Visual Information Processing in the <i>Drosophila</i> Brain. <i>Cell Reports</i> , 2013, 3, 1739-1753.	6.4	159
42	Genetic mapping with SNP markers in <i>Drosophila</i> . <i>Nature Genetics</i> , 2001, 29, 475-481.	21.4	150
43	MIPs are ancestral ligands for the sex peptide receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6520-6525.	7.1	147
44	The <i>Drosophila</i> Female Aphrodisiac Pheromone Activates ppk23+ Sensory Neurons to Elicit Male Courtship Behavior. <i>Cell Reports</i> , 2012, 1, 599-607.	6.4	145
45	Comm function in commissural axon guidance: cell-autonomous sorting of Robo in vivo. <i>Nature Neuroscience</i> , 2005, 8, 156-163.	14.8	140
46	Temporal Target Restriction of Olfactory Receptor Neurons by Semaphorin-1a/PlexinA-Mediated Axon-Axon Interactions. <i>Neuron</i> , 2007, 53, 185-200.	8.1	140
47	Netrins guide <i>Drosophila</i> commissural axons at short range. <i>Nature Neuroscience</i> , 2006, 9, 188-194.	14.8	132
48	Ascending SAG Neurons Control Sexual Receptivity of <i>Drosophila</i> Females. <i>Neuron</i> , 2014, 83, 135-148.	8.1	132
49	HOT regions function as patterned developmental enhancers and have a distinct <i>cis</i> -regulatory signature. <i>Genes and Development</i> , 2012, 26, 908-913.	5.9	130
50	FlyMAD: rapid thermogenetic control of neuronal activity in freely walking <i>Drosophila</i> . <i>Nature Methods</i> , 2014, 11, 756-762.	19.0	128
51	Cell-Autonomous and -Nonautonomous Functions of LAR in R7 Photoreceptor Axon Targeting. <i>Neuron</i> , 2001, 32, 225-235.	8.1	121
52	Muscle Building. <i>Developmental Cell</i> , 2004, 7, 9-20.	7.0	120
53	Neural circuitry linking mating and egg laying in <i>Drosophila</i> females. <i>Nature</i> , 2020, 579, 101-105.	27.8	120
54	Control of <i>drosophila</i> photoreceptor cell fates by phyllopod, a novel nuclear protein acting downstream of the raf kinase. <i>Cell</i> , 1995, 80, 453-462.	28.9	117

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55	Flamingo Regulates R8 Axon-Axon and Axon-Target Interactions in the Drosophila Visual System. <i>Current Biology</i> , 2003, 13, 828-832.	3.9	116
56	Visual Projection Neurons Mediating Directed Courtship in Drosophila. <i>Cell</i> , 2018, 174, 607-621.e18.	28.9	116
57	Mutations Modulating Raf Signaling in Drosophila Eye Development. <i>Genetics</i> , 1996, 142, 163-171.	2.9	112
58	Vilse, a conserved Rac/Cdc42 GAP mediating Robo repulsion in tracheal cells and axons. <i>Genes and Development</i> , 2004, 18, 2161-2171.	5.9	108
59	The Transmembrane Protein Kon-tiki Couples to Dgrip to Mediate Myotube Targeting in Drosophila. <i>Developmental Cell</i> , 2007, 12, 751-766.	7.0	103
60	Sugar Codes for Axons?. <i>Neuron</i> , 2005, 46, 169-172.	8.1	102
61	Distinct Protein Domains and Expression Patterns Confer Divergent Axon Guidance Functions for Drosophila Robo Receptors. <i>Cell</i> , 2010, 140, 409-420.	28.9	93
62	Navigating Intermediate Targets: The Nervous System Midline. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a002055-a002055.	5.5	88
63	Abdominal-B Neurons Control Drosophila Virgin Female Receptivity. <i>Current Biology</i> , 2014, 24, 1584-1595.	3.9	87
64	Drosophila CPEB Orb2A Mediates Memory Independent of Its RNA-Binding Domain. <i>Neuron</i> , 2012, 76, 383-395.	8.1	86
65	Auditory circuit in the <i>Drosophila</i> brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2607-2612.	7.1	85
66	Neural circuit mechanisms of sexual receptivity in Drosophila females. <i>Nature</i> , 2021, 589, 577-581.	27.8	78
67	Cellular and Behavioral Functions of fruitless Isoforms in Drosophila Courtship. <i>Current Biology</i> , 2014, 24, 242-251.	3.9	75
68	Neural Evolution of Context-Dependent Fly Song. <i>Current Biology</i> , 2019, 29, 1089-1099.e7.	3.9	74
69	Connecting Neural Codes with Behavior in the Auditory System of Drosophila. <i>Neuron</i> , 2015, 87, 1332-1343.	8.1	72
70	Parallel Neural Pathways Mediate CO ₂ Avoidance Responses in <i>Drosophila</i> . <i>Science</i> , 2013, 340, 1338-1341.	12.6	69
71	Persistent activity in a recurrent circuit underlies courtship memory in Drosophila. <i>ELife</i> , 2018, 7, .	6.0	67
72	Moonwalker Descending Neurons Mediate Visually Evoked Retreat in Drosophila. <i>Current Biology</i> , 2017, 27, 766-771.	3.9	62

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73	Neural Circuit Components of the <i>Drosophila</i> OFF Motion Vision Pathway. <i>Current Biology</i> , 2014, 24, 385-392.	3.9	60
74	Functional Specialization of Neural Input Elements to the <i>Drosophila</i> ON Motion Detector. <i>Current Biology</i> , 2015, 25, 2247-2253.	3.9	57
75	Axon Guidance: Morphogens Show the Way. <i>Current Biology</i> , 2004, 14, R19-R21.	3.9	54
76	BrainGazer - Visual Queries for Neurobiology Research. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2009, 15, 1497-1504.	4.4	53
77	Shared neural circuitry for female and male sexual behaviours in <i>Drosophila</i> . <i>Current Biology</i> , 2006, 16, R355-R356.	3.9	52
78	High-resolution, high-throughput SNP mapping in <i>Drosophila melanogaster</i> . <i>Nature Methods</i> , 2008, 5, 323-329.	19.0	51
79	Systematic Identification of Genes that Regulate Neuronal Wiring in the <i>Drosophila</i> Visual System. <i>PLoS Genetics</i> , 2008, 4, e1000085.	3.5	48
80	Threshold-Based Ordering of Sequential Actions during <i>Drosophila</i> Courtship. <i>Current Biology</i> , 2019, 29, 426-434.e6.	3.9	48
81	Circuit and Behavioral Mechanisms of Sexual Rejection by <i>Drosophila</i> Females. <i>Current Biology</i> , 2020, 30, 3749-3760.e3.	3.9	39
82	Distributed control of motor circuits for backward walking in <i>Drosophila</i> . <i>Nature Communications</i> , 2020, 11, 6166.	12.8	37
83	DEVELOPMENTAL NEUROSCIENCE: Moving On. <i>Science</i> , 2001, 291, 1910-1911.	12.6	36
84	Classification and genetic targeting of cell types in the primary taste and premotor center of the adult <i>Drosophila</i> brain. <i>ELife</i> , 2021, 10, .	6.0	31
85	DEVELOPMENT: Wiring the Brain with Insulin. <i>Science</i> , 2003, 300, 440-441.	12.6	26
86	Netrins. <i>Current Biology</i> , 2002, 12, R154-R155.	3.9	25
87	Slit cleavage is essential for producing an active, stable, non-diffusible short-range signal that guides muscle migration. <i>Development (Cambridge)</i> , 2015, 142, 1431-6.	2.5	23
88	Photoreceptor development: Breaking down the barriers. <i>Current Biology</i> , 1998, 8, R90-R92.	3.9	21
89	Split-QF System for Fine-Tuned Transgene Expression in <i>Drosophila</i> . <i>Genetics</i> , 2019, 212, 53-63.	2.9	21
90	Robo-3-mediated repulsive interactions guide R8 axons during <i>Drosophila</i> visual system development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7571-7576.	7.1	20

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91	Diversity and wiring variability of visual local neurons in the <i>Drosophila</i> medulla M6 stratum. <i>Journal of Comparative Neurology</i> , 2014, 522, 3795-3816.	1.6	20
92	Neural network organization for courtship-song feature detection in <i>Drosophila</i> . <i>Current Biology</i> , 2022, 32, 3317-3333.e7.	3.9	20
93	Controlling motor neurons of every muscle for fly proboscis reaching. <i>ELife</i> , 2020, 9, .	6.0	19
94	Axon Guidance: Growth Cones Make an Unexpected Turn. <i>Current Biology</i> , 2002, 12, R218-R220.	3.9	18
95	TwoLumps Ascending Neurons Mediate Touch-Evoked Reversal of Walking Direction in <i>Drosophila</i> . <i>Current Biology</i> , 2019, 29, 4337-4344.e5.	3.9	17
96	neuroMAP " Interactive graph-visualization of the fruit fly's neural circuit. , 2013, , .		16
97	Functional architecture of neural circuits for leg proprioception in <i>Drosophila</i> . <i>Current Biology</i> , 2021, 31, 5163-5175.e7.	3.9	16
98	Wnts send axons up and down the spinal cord. <i>Nature Neuroscience</i> , 2005, 8, 1130-1132.	14.8	13
99	Structure-Based Neuron Retrieval Across <i>Drosophila</i> Brains. <i>Neuroinformatics</i> , 2014, 12, 423-434.	2.8	8
100	Sexual Behaviour: Do a Few Dead Neurons Make the Difference?. <i>Current Biology</i> , 2006, 16, R23-R25.	3.9	6
101	A Roundabout way of avoiding the midline. <i>Nature</i> , 1998, 391, 442-443.	27.8	5
102	Neurobiology of behaviour. <i>Current Opinion in Neurobiology</i> , 2007, 17, 672-674.	4.2	4
103	Editorial overview: Neurobiology of sex. <i>Current Opinion in Neurobiology</i> , 2016, 38, A1-A3.	4.2	4
104	Visualization and Quantification for Interactive Analysis of Neural Connectivity in <i>Drosophila</i> . <i>Computer Graphics Forum</i> , 2017, 36, 160-171.	3.0	4
105	Hidden female talent. <i>Nature</i> , 2008, 453, 41-42.	27.8	3
106	Immunoglobulin allotypes Gm and Km in hematologic malignancies. <i>Cancer Genetics and Cytogenetics</i> , 1988, 31, 179-186.	1.0	1
107	Reverse gear for <i>Drosophila</i> . <i>Nature</i> , 2000, 405, 896-897.	27.8	1
108	Adaptive and Background-Aware GAL4 Expression Enhancement of Co-registered Confocal Microscopy Images. <i>Neuroinformatics</i> , 2016, 14, 221-233.	2.8	0