Barry J Dickson

List of Publications by Year
in descending order

108 papers	20,967 citations	16791 66 h-index	29333 108 g-index
130 all docs	130 docs citations	130 times ranked	17765 citing authors

#	Article	IF	Citations
1	Neural network organization for courtship-song feature detection in Drosophila. Current Biology, 2022, 32, 3317-3333.e7.	1.8	20
2	Neural circuit mechanisms of sexual receptivity in Drosophila females. Nature, 2021, 589, 577-581.	13.7	78
3	Classification and genetic targeting of cell types in the primary taste and premotor center of the adult Drosophila brain. ELife, 2021, 10, .	2.8	31
4	Functional architecture of neural circuits for leg proprioception in Drosophila. Current Biology, 2021, 31, 5163-5175.e7.	1.8	16
5	Circuit and Behavioral Mechanisms of Sexual Rejection by Drosophila Females. Current Biology, 2020, 30, 3749-3760.e3.	1.8	39
6	Distributed control of motor circuits for backward walking in Drosophila. Nature Communications, 2020, 11, 6166.	5.8	37
7	Neural circuitry linking mating and egg laying in Drosophila females. Nature, 2020, 579, 101-105.	13.7	120
8	Controlling motor neurons of every muscle for fly proboscis reaching. ELife, 2020, 9, .	2.8	19
9	Neural Evolution of Context-Dependent Fly Song. Current Biology, 2019, 29, 1089-1099.e7.	1.8	74
10	Split-QF System for Fine-Tuned Transgene Expression in Drosophila. Genetics, 2019, 212, 53-63.	1.2	21
11	TwoLumps Ascending Neurons Mediate Touch-Evoked Reversal of Walking Direction in Drosophila. Current Biology, 2019, 29, 4337-4344.e5.	1.8	17
12	Threshold-Based Ordering of Sequential Actions during Drosophila Courtship. Current Biology, 2019, 29, 426-434.e6.	1.8	48
13	Persistent activity in a recurrent circuit underlies courtship memory in Drosophila. ELife, 2018, 7, .	2.8	67
14	Visual Projection Neurons Mediating Directed Courtship in Drosophila. Cell, 2018, 174, 607-621.e18.	13.5	116
15	Visualization and Quantification for Interactive Analysis of Neural Connectivity in Drosophila. Computer Graphics Forum, 2017, 36, 160-171.	1.8	4
16	Moonwalker Descending Neurons Mediate Visually Evoked Retreat in Drosophila. Current Biology, 2017, 27, 766-771.	1.8	62
17	Editorial overview: Neurobiology of sex. Current Opinion in Neurobiology, 2016, 38, A1-A3.	2.0	4
18	Adaptive and Background-Aware GAL4 Expression Enhancement of Co-registered Confocal Microscopy Images. Neuroinformatics, 2016, 14, 221-233.	1.5	0

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19	Slit cleavage is essential for producing an active, stable, non-diffusible short-range signal that guides muscle migration. Development (Cambridge), 2015, 142, 1431-6.	1.2	23
20	Connecting Neural Codes with Behavior in the Auditory System of Drosophila. Neuron, 2015, 87, 1332-1343.	3.8	72
21	Functional Specialization of Neural Input Elements to the Drosophila ON Motion Detector. Current Biology, 2015, 25, 2247-2253.	1.8	57
22	Diversity and wiring variability of visual local neurons in the Drosophila medulla M6 stratum. Journal of Comparative Neurology, 2014, 522, 3795-3816.	0.9	20
23	Structure-Based Neuron Retrieval Across Drosophila Brains. Neuroinformatics, 2014, 12, 423-434.	1.5	8
24	Neuronal Control of Drosophila Walking Direction. Science, 2014, 344, 97-101.	6.0	186
25	Neural Circuit Components of the Drosophila OFF Motion Vision Pathway. Current Biology, 2014, 24, 385-392.	1.8	60
26	Ascending SAG Neurons Control Sexual Receptivity of Drosophila Females. Neuron, 2014, 83, 135-148.	3.8	132
27	Abdominal-B Neurons Control Drosophila Virgin Female Receptivity. Current Biology, 2014, 24, 1584-1595.	1.8	87
28	Genome-scale functional characterization of Drosophila developmental enhancers in vivo. Nature, 2014, 512, 91-95.	13.7	422
29	Cellular and Behavioral Functions of fruitless Isoforms in Drosophila Courtship. Current Biology, 2014, 24, 242-251.	1.8	75
30	FlyMAD: rapid thermogenetic control of neuronal activity in freely walking Drosophila. Nature Methods, 2014, 11, 756-762.	9.0	128
31	A directional tuning map of Drosophila elementary motion detectors. Nature, 2013, 500, 212-216.	13.7	327
32	A Comprehensive Wiring Diagram of the Protocerebral Bridge for Visual Information Processing in the Drosophila Brain. Cell Reports, 2013, 3, 1739-1753.	2.9	159
33	neuroMAP â€" Interactive graph-visualization of the fruit fly's neural circuit. , 2013, , .		16
34	Parallel Neural Pathways Mediate CO ₂ Avoidance Responses in Drosophila. Science, 2013, 340, 1338-1341.	6.0	69
35	Auditory circuit in the Drosophila brain. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2607-2612.	3.3	85
36	Drosophila CPEB Orb2A Mediates Memory Independent of Its RNA-Binding Domain. Neuron, 2012, 76, 383-395.	3.8	86

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37	Dopamine neurons modulate pheromone responses in Drosophila courtship learning. Nature, 2012, 489, 145-149.	13.7	192
38	The Drosophila Female Aphrodisiac Pheromone Activates ppk23+ Sensory Neurons to Elicit Male Courtship Behavior. Cell Reports, 2012, 1, 599-607.	2.9	145
39	HOT regions function as patterned developmental enhancers and have a distinct cis-regulatory signature. Genes and Development, 2012, 26, 908-913.	2.7	130
40	Neuronal Control of Drosophila Courtship Song. Neuron, 2011, 69, 509-522.	3.8	322
41	Flybow: genetic multicolor cell labeling for neural circuit analysis in Drosophila melanogaster. Nature Methods, 2011, 8, 260-266.	9.0	206
42	Robo-3â€“mediated repulsive interactions guide R8 axons during Drosophila visual system development. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7571-7576.	3.3	20
43	Sex Peptide Receptor and Neuronal TOR/S6K Signaling Modulate Nutrient Balancing in Drosophila. Current Biology, 2010, 20, 1000-1005.	1.8	293
44	Sexual Dimorphism in the Fly Brain. Current Biology, 2010, 20, 1589-1601.	1.8	270
45	Cellular Organization of the Neural Circuit that Drives Drosophila Courtship Behavior. Current Biology, 2010, 20, 1602-1614.	1.8	325
46	Systematic genetic analysis of muscle morphogenesis and function in Drosophila. Nature, 2010, 464, 287-291.	13.7	285
47	MIPs are ancestral ligands for the sex peptide receptor. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6520-6525.	3.3	147
48	Navigating Intermediate Targets: The Nervous System Midline. Cold Spring Harbor Perspectives in Biology, 2010, 2, a002055-a002055.	2.3	88
49	Distinct Protein Domains and Expression Patterns Confer Divergent Axon Guidance Functions for Drosophila Robo Receptors. Cell, 2010, 140, 409-420.	13.5	93
50	Genome-wide analysis of Notch signalling in Drosophila by transgenic RNAi. Nature, 2009, 458, 987-992.	13.7	283
51	Sensory Neurons in the Drosophila Genital Tract Regulate Female Reproductive Behavior. Neuron, 2009, 61, 511-518.	3.8	253
52	BrainGazer - Visual Queries for Neurobiology Research. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 1497-1504.	2.9	53
53	A receptor that mediates the post-mating switch in Drosophila reproductive behaviour. Nature, 2008, 451, 33-37.	13.7	464
54	The Drosophila pheromone cVA activates a sexually dimorphic neural circuit. Nature, 2008, 452, 473-477.	13.7	343

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55	Hidden female talent. Nature, 2008, 453, 41-42.	13.7	3
56	High-resolution, high-throughput SNP mapping in Drosophila melanogaster. Nature Methods, 2008, 5, 323-329.	9.0	51
57	Cell-Type-Specific TEV Protease Cleavage Reveals Cohesin Functions in Drosophila Neurons. Developmental Cell, 2008, 14, 239-251.	3.1	251
58	Wired for Sex: The Neurobiology of Drosophila Mating Decisions. Science, 2008, 322, 904-909.	6.0	268
59	Identification of an Axonal Kinesin-3 Motor for Fast Anterograde Vesicle Transport that Facilitates Retrograde Transport of Neuropeptides. Molecular Biology of the Cell, 2008, 19, 274-283.	0.9	163
60	Systematic Identification of Genes that Regulate Neuronal Wiring in the Drosophila Visual System. PLoS Genetics, 2008, 4, e1000085.	1.5	48
61	Temporal Target Restriction of Olfactory Receptor Neurons by Semaphorin-1a/PlexinA-Mediated Axon-Axon Interactions. Neuron, 2007, 53, 185-200.	3.8	140
62	The Transmembrane Protein Kon-tiki Couples to Dgrip to Mediate Myotube Targeting in Drosophila. Developmental Cell, 2007, 12, 751-766.	3.1	103
63	Function of the Drosophila CPEB protein Orb2 in long-term courtship memory. Nature Neuroscience, 2007, 10, 1587-1593.	7.1	234
64	A single class of olfactory neurons mediates behavioural responses to a Drosophila sex pheromone. Nature, 2007, 446, 542-546.	13.7	662
65	A genome-wide transgenic RNAi library for conditional gene inactivation in Drosophila. Nature, 2007, 448, 151-156.	13.7	2,421
66	Dscam diversity is essential for neuronal wiring and self-recognition. Nature, 2007, 449, 223-227.	13.7	197
67	Neurobiology of behaviour. Current Opinion in Neurobiology, 2007, 17, 672-674.	2.0	4
68	Netrins guide Drosophila commissural axons at short range. Nature Neuroscience, 2006, 9, 188-194.	7.1	132
69	fruitless regulates aggression and dominance in Drosophila. Nature Neuroscience, 2006, 9, 1469-1471.	7.1	162
70	Sexual Behaviour: Do a Few Dead Neurons Make the Difference?. Current Biology, 2006, 16, R23-R25.	1.8	6
71	Shared neural circuitry for female and male sexual behaviours in Drosophila. Current Biology, 2006, 16, R355-R356.	1.8	52
72	Regulation of Commissural Axon Pathfinding by Slit and its Robo Receptors. Annual Review of Cell and Developmental Biology, 2006, 22, 651-675.	4.0	314

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73	Wnts send axons up and down the spinal cord. Nature Neuroscience, 2005, 8, 1130-1132.	7.1	13
74	Comm function in commissural axon guidance: cell-autonomous sorting of Robo in vivo. Nature Neuroscience, 2005, 8, 156-163.	7.1	140
75	Molecular, Anatomical, and Functional Organization of the Drosophila Olfactory System. Current Biology, 2005, 15, 1535-1547.	1.8	845
76	Neural Circuitry that Governs Drosophila Male Courtship Behavior. Cell, 2005, 121, 795-807.	13.5	515
77	fruitless Splicing Specifies Male Courtship Behavior in Drosophila. Cell, 2005, 121, 785-794.	13.5	423
78	Sugar Codes for Axons?. Neuron, 2005, 46, 169-172.	3.8	102
79	The DrosDel Collection. Genetics, 2004, 167, 797-813.	1.2	342
80	Vilse, a conserved Rac/Cdc42 GAP mediating Robo repulsion in tracheal cells and axons. Genes and Development, 2004, 18, 2161-2171.	2.7	108
81	Axon Guidance: Morphogens Show the Way. Current Biology, 2004, 14, R19-R21.	1.8	54
82	Muscle Building. Developmental Cell, 2004, 7, 9-20.	3.1	120
83	Flamingo Regulates R8 Axon-Axon and Axon-Target Interactions in the Drosophila Visual System. Current Biology, 2003, 13, 828-832.	1.8	116
84	DEVELOPMENT: Wiring the Brain with Insulin. Science, 2003, 300, 440-441.	6.0	26
85	Comm Sorts Robo to Control Axon Guidance at the Drosophila Midline. Cell, 2002, 110, 415-427.	13.5	289
86	Netrins. Current Biology, 2002, 12, R154-R155.	1.8	25
87	Axon Guidance: Growth Cones Make an Unexpected Turn. Current Biology, 2002, 12, R218-R220.	1.8	18
88	Rac function and regulation during Drosophila development. Nature, 2002, 416, 438-442.	13.7	329
89	Rac GTPases control axon growth, guidance and branching. Nature, 2002, 416, 442-447.	13.7	302
90	Molecular Mechanisms of Axon Guidance. Science, 2002, 298, 1959-1964.	6.0	1,292

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91	Cell-Autonomous and -Nonautonomous Functions of LAR in R7 Photoreceptor Axon Targeting. Neuron, 2001, 32, 225-235.	3.8	121
92	Short- and Long-Range Repulsion by the Drosophila Unc5 Netrin Receptor. Neuron, 2001, 32, 605-617.	3.8	270
93	The Drosophila Tuberous Sclerosis Complex Gene Homologs Restrict Cell Growth and Cell Proliferation. Cell, 2001, 105, 345-355.	13.5	516
94	Genetic mapping with SNP markers in Drosophila. Nature Genetics, 2001, 29, 475-481.	9.4	150
95	Rho GTPases in growth cone guidance. Current Opinion in Neurobiology, 2001, 11, 103-110.	2.0	329
96	DEVELOPMENTAL NEUROSCIENCE: Moving On. Science, 2001, 291, 1910-1911.	6.0	36
97	Reverse gear for Drosophila. Nature, 2000, 405, 896-897.	13.7	1
98	Crossing the Midline. Neuron, 2000, 28, 767-777.	3.8	185
99	Selecting a Longitudinal Pathway. Cell, 2000, 103, 1033-1045.	13.5	275
100	Trio Combines with Dock to Regulate Pak Activity during Photoreceptor Axon Pathfinding in Drosophila. Cell, 2000, 101, 283-294.	13.5	284
101	Dispatched, a Novel Sterol-Sensing Domain Protein Dedicated to the Release of Cholesterol-Modified Hedgehog from Signaling Cells. Cell, 1999, 99, 803-815.	13.5	502
102	A Roundabout way of avoiding the midline. Nature, 1998, 391, 442-443.	13.7	5
103	Photoreceptor development: Breaking down the barriers. Current Biology, 1998, 8, R90-R92.	1.8	21
104	Genetic Analysis of Netrin Genes in Drosophila: Netrins Guide CNS Commissural Axons and Peripheral Motor Axons. Neuron, 1996, 17, 203-215.	3.8	423
105	Mutations Modulating Raf Signaling in Drosophila Eye Development. Genetics, 1996, 142, 163-171.	1.2	112
106	Control of drosophila photoreceptor cell fates by phyllopod, a novel nuclear protein acting downstream of the raf kinase. Cell, 1995, 80, 453-462.	13.5	117
107	Raf functions downstream of Rasl in the Sevenless signal transduction pathway. Nature, 1992, 360, 600-603.	13.7	326
108	Immunoglobulin allotypes Gm and Km in hematologic malignancies. Cancer Genetics and Cytogenetics, 1988, 31, 179-186.	1.0	1