

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	Neural network organization for courtship-song feature detection in <i>Drosophila</i> . <i>Current Biology</i> , 2022, 32, 3317-3333.e7.	3.9	20
2	Neural circuit mechanisms of sexual receptivity in <i>Drosophila</i> females. <i>Nature</i> , 2021, 589, 577-581.	27.8	78
3	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
4	Functional architecture of neural circuits for leg proprioception in <i>Drosophila</i> . <i>Current Biology</i> , 2021, 31, 5163-5175.e7.	3.9	16
5	Circuit and Behavioral Mechanisms of Sexual Rejection by <i>Drosophila</i> Females. <i>Current Biology</i> , 2020, 30, 3749-3760.e3.	3.9	39
6	Distributed control of motor circuits for backward walking in <i>Drosophila</i> . <i>Nature Communications</i> , 2020, 11, 6166.	12.8	37
7	Neural circuitry linking mating and egg laying in <i>Drosophila</i> females. <i>Nature</i> , 2020, 579, 101-105.	27.8	120
8	Controlling motor neurons of every muscle for fly proboscis reaching. <i>ELife</i> , 2020, 9, .	6.0	19
9	Neural Evolution of Context-Dependent Fly Song. <i>Current Biology</i> , 2019, 29, 1089-1099.e7.	3.9	74
10	Split-QF System for Fine-Tuned Transgene Expression in <i>Drosophila</i> . <i>Genetics</i> , 2019, 212, 53-63.	2.9	21
11	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
12	Threshold-Based Ordering of Sequential Actions during <i>Drosophila</i> Courtship. <i>Current Biology</i> , 2019, 29, 426-434.e6.	3.9	48
13	Persistent activity in a recurrent circuit underlies courtship memory in <i>Drosophila</i> . <i>ELife</i> , 2018, 7, .	6.0	67
14	Visual Projection Neurons Mediating Directed Courtship in <i>Drosophila</i> . <i>Cell</i> , 2018, 174, 607-621.e18.	28.9	116
15	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
16	Moonwalker Descending Neurons Mediate Visually Evoked Retreat in <i>Drosophila</i> . <i>Current Biology</i> , 2017, 27, 766-771.	3.9	62
17	Editorial overview: Neurobiology of sex. <i>Current Opinion in Neurobiology</i> , 2016, 38, A1-A3.	4.2	4
18	Adaptive and Background-Aware GAL4 Expression Enhancement of Co-registered Confocal Microscopy Images. <i>Neuroinformatics</i> , 2016, 14, 221-233.	2.8	0

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19	Slit cleavage is essential for producing an active, stable, non-diffusible short-range signal that guides muscle migration. <i>Development</i> (Cambridge), 2015, 142, 1431-6.	2.5	23
20	Connecting Neural Codes with Behavior in the Auditory System of <i>Drosophila</i> . <i>Neuron</i> , 2015, 87, 1332-1343.	8.1	72
21	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
22	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
23	Structure-Based Neuron Retrieval Across <i>Drosophila</i> Brains. <i>Neuroinformatics</i> , 2014, 12, 423-434.	2.8	8
24	Neuronal Control of <i>Drosophila</i> Walking Direction. <i>Science</i> , 2014, 344, 97-101.	12.6	186
25	Neural Circuit Components of the <i>Drosophila</i> OFF Motion Vision Pathway. <i>Current Biology</i> , 2014, 24, 385-392.	3.9	60
26	Ascending SAC Neurons Control Sexual Receptivity of <i>Drosophila</i> Females. <i>Neuron</i> , 2014, 83, 135-148.	8.1	132
27	Abdominal-B Neurons Control <i>Drosophila</i> Virgin Female Receptivity. <i>Current Biology</i> , 2014, 24, 1584-1595.	3.9	87
28	Genome-scale functional characterization of <i>Drosophila</i> developmental enhancers in vivo. <i>Nature</i> , 2014, 512, 91-95.	27.8	422
29	Cellular and Behavioral Functions of fruitless Isoforms in <i>Drosophila</i> Courtship. <i>Current Biology</i> , 2014, 24, 242-251.	3.9	75
30	FlyMAD: rapid thermogenetic control of neuronal activity in freely walking <i>Drosophila</i> . <i>Nature Methods</i> , 2014, 11, 756-762.	19.0	128
31	A directional tuning map of <i>Drosophila</i> elementary motion detectors. <i>Nature</i> , 2013, 500, 212-216.	27.8	327
32	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
33	neuroMAP – Interactive graph-visualization of the fruit fly's neural circuit. , 2013, , .		16
34	Parallel Neural Pathways Mediate CO ₂ Avoidance Responses in <i>Drosophila</i> . <i>Science</i> , 2013, 340, 1338-1341.	12.6	69
35	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
36	<i>Drosophila</i> CPEB Orb2A Mediates Memory Independent of Its RNA-Binding Domain. <i>Neuron</i> , 2012, 76, 383-395.	8.1	86

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37	Dopamine neurons modulate pheromone responses in <i>Drosophila</i> courtship learning. <i>Nature</i> , 2012, 489, 145-149.	27.8	192
38	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
39	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
40	Neuronal Control of <i>Drosophila</i> Courtship Song. <i>Neuron</i> , 2011, 69, 509-522.	8.1	322
41	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
42	Robo-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
43	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
44	Sexual Dimorphism in the Fly Brain. <i>Current Biology</i> , 2010, 20, 1589-1601.	3.9	270
45	Cellular Organization of the Neural Circuit that Drives <i>Drosophila</i> Courtship Behavior. <i>Current Biology</i> , 2010, 20, 1602-1614.	3.9	325
46	Systematic genetic analysis of muscle morphogenesis and function in <i>Drosophila</i> . <i>Nature</i> , 2010, 464, 287-291.	27.8	285
47	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
48	Navigating Intermediate Targets: The Nervous System Midline. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a002055-a002055.	5.5	88
49	Distinct Protein Domains and Expression Patterns Confer Divergent Axon Guidance Functions for <i>Drosophila</i> Robo Receptors. <i>Cell</i> , 2010, 140, 409-420.	28.9	93
50	Genome-wide analysis of Notch signalling in <i>Drosophila</i> by transgenic RNAi. <i>Nature</i> , 2009, 458, 987-992.	27.8	283
51	Sensory Neurons in the <i>Drosophila</i> Genital Tract Regulate Female Reproductive Behavior. <i>Neuron</i> , 2009, 61, 511-518.	8.1	253
52	BrainGazer - Visual Queries for Neurobiology Research. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2009, 15, 1497-1504.	4.4	53
53	A receptor that mediates the post-mating switch in <i>Drosophila</i> reproductive behaviour. <i>Nature</i> , 2008, 451, 33-37.	27.8	464
54	The <i>Drosophila</i> pheromone cVA activates a sexually dimorphic neural circuit. <i>Nature</i> , 2008, 452, 473-477.	27.8	343

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55	Hidden female talent. <i>Nature</i> , 2008, 453, 41-42.	27.8	3
56	High-resolution, high-throughput SNP mapping in <i>Drosophila melanogaster</i> . <i>Nature Methods</i> , 2008, 5, 323-329.	19.0	51
57	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
58	Wired for Sex: The Neurobiology of <i>Drosophila</i> Mating Decisions. <i>Science</i> , 2008, 322, 904-909.	12.6	268
59	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
60	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
61	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
62	The Transmembrane Protein Kon-tiki Couples to Dgrip to Mediate Myotube Targeting in <i>Drosophila</i> . <i>Developmental Cell</i> , 2007, 12, 751-766.	7.0	103
63	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
64	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
65	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
66	Dscam diversity is essential for neuronal wiring and self-recognition. <i>Nature</i> , 2007, 449, 223-227.	27.8	197
67	Neurobiology of behaviour. <i>Current Opinion in Neurobiology</i> , 2007, 17, 672-674.	4.2	4
68	Netrins guide <i>Drosophila</i> commissural axons at short range. <i>Nature Neuroscience</i> , 2006, 9, 188-194.	14.8	132
69	fruitless regulates aggression and dominance in <i>Drosophila</i> . <i>Nature Neuroscience</i> , 2006, 9, 1469-1471.	14.8	162
70	Sexual Behaviour: Do a Few Dead Neurons Make the Difference?. <i>Current Biology</i> , 2006, 16, R23-R25.	3.9	6
71	Shared neural circuitry for female and male sexual behaviours in <i>Drosophila</i> . <i>Current Biology</i> , 2006, 16, R355-R356.	3.9	52
72	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

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73	Wnts send axons up and down the spinal cord. Nature Neuroscience, 2005, 8, 1130-1132.	14.8	13
74	Comm function in commissural axon guidance: cell-autonomous sorting of Robo in vivo. Nature Neuroscience, 2005, 8, 156-163.	14.8	140
75	Molecular, Anatomical, and Functional Organization of the Drosophila Olfactory System. Current Biology, 2005, 15, 1535-1547.	3.9	845
76	Neural Circuitry that Governs Drosophila Male Courtship Behavior. Cell, 2005, 121, 795-807.	28.9	515
77	fruitless Splicing Specifies Male Courtship Behavior in Drosophila. Cell, 2005, 121, 785-794.	28.9	423
78	Sugar Codes for Axons?. Neuron, 2005, 46, 169-172.	8.1	102
79	The DrosDel Collection. Genetics, 2004, 167, 797-813.	2.9	342
80	Vilse, a conserved Rac/Cdc42 GAP mediating Robo repulsion in tracheal cells and axons. Genes and Development, 2004, 18, 2161-2171.	5.9	108
81	Axon Guidance: Morphogens Show the Way. Current Biology, 2004, 14, R19-R21.	3.9	54
82	Muscle Building. Developmental Cell, 2004, 7, 9-20.	7.0	120
83	Flamingo Regulates R8 Axon-Axon and Axon-Target Interactions in the Drosophila Visual System. Current Biology, 2003, 13, 828-832.	3.9	116
84	DEVELOPMENT: Wiring the Brain with Insulin. Science, 2003, 300, 440-441.	12.6	26
85	Comm Sorts Robo to Control Axon Guidance at the Drosophila Midline. Cell, 2002, 110, 415-427.	28.9	289
86	Netrins. Current Biology, 2002, 12, R154-R155.	3.9	25
87	Axon Guidance: Growth Cones Make an Unexpected Turn. Current Biology, 2002, 12, R218-R220.	3.9	18
88	Rac function and regulation during Drosophila development. Nature, 2002, 416, 438-442.	27.8	329
89	Rac GTPases control axon growth, guidance and branching. Nature, 2002, 416, 442-447.	27.8	302
90	Molecular Mechanisms of Axon Guidance. Science, 2002, 298, 1959-1964.	12.6	1,292

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91	Cell-Autonomous and -Nonautonomous Functions of LAR in R7 Photoreceptor Axon Targeting. Neuron, 2001, 32, 225-235.	8.1	121
92	Short- and Long-Range Repulsion by the Drosophila Unc5 Netrin Receptor. Neuron, 2001, 32, 605-617.	8.1	270
93	The Drosophila Tuberous Sclerosis Complex Gene Homologs Restrict Cell Growth and Cell Proliferation. Cell, 2001, 105, 345-355.	28.9	516
94	Genetic mapping with SNP markers in Drosophila. Nature Genetics, 2001, 29, 475-481.	21.4	150
95	Rho GTPases in growth cone guidance. Current Opinion in Neurobiology, 2001, 11, 103-110.	4.2	329
96	DEVELOPMENTAL NEUROSCIENCE: Moving On. Science, 2001, 291, 1910-1911.	12.6	36
97	Reverse gear for Drosophila. Nature, 2000, 405, 896-897.	27.8	1
98	Crossing the Midline. Neuron, 2000, 28, 767-777.	8.1	185
99	Selecting a Longitudinal Pathway. Cell, 2000, 103, 1033-1045.	28.9	275
100	Trio Combines with Dock to Regulate Pak Activity during Photoreceptor Axon Pathfinding in Drosophila. Cell, 2000, 101, 283-294.	28.9	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.	28.9	502
102	A Roundabout way of avoiding the midline. Nature, 1998, 391, 442-443.	27.8	5
103	Photoreceptor development: Breaking down the barriers. Current Biology, 1998, 8, R90-R92.	3.9	21
104	Genetic Analysis of Netrin Genes in Drosophila: Netrins Guide CNS Commissural Axons and Peripheral Motor Axons. Neuron, 1996, 17, 203-215.	8.1	423
105	Mutations Modulating Raf Signaling in Drosophila Eye Development. Genetics, 1996, 142, 163-171.	2.9	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.	28.9	117
107	Raf functions downstream of Rasl in the Sevenless signal transduction pathway. Nature, 1992, 360, 600-603.	27.8	326
108	Immunoglobulin allotypes Gm and Km in hematologic malignancies. Cancer Genetics and Cytogenetics, 1988, 31, 179-186.	1.0	1