# Barry J Dickson

List of Publications by Year
in descending order



| 108 | 20,967 | 14644 66 | 25770 108 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 130 | 130 | 130 | 15906 |
|---|---|---|---|
| all docs | docs citations | times ranked | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 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 <sub>2</sub> 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 |
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| 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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| 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 |
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| 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 |
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| 92 | Short- and Long-Range Repulsion by the Drosophila Unc5 Netrin Receptor. Neuron, 2001, 32, 605-617. | 3.8 | 270 |
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| 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 |
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| 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 |
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| 108 | Immunoglobulin allotypes Gm and Km in hematologic malignancies. Cancer Genetics and Cytogenetics, 1988, 31, 179-186. | 1.0 | 1 |