# Gregory S X E Jefferis

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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| 78 papers | 5,480 citations | 34 h-index | 74 g-index |
| 90 ext. papers | 7,360 ext. citations | 15.3 avg, IF | 5.51 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 78 | Comprehensive maps of Drosophila higher olfactory centers: spatially segregated fruit and pheromone representation. *Cell*, **2007**, 128, 1187-203 | 56.2 | 466 |
| 77 | A Complete Electron Microscopy Volume of the Brain of Adult Drosophila melanogaster. *Cell*, **2018**, 174, 730-743.e22 | 56.2 | 393 |
| 76 | Representation of the glomerular olfactory map in the Drosophila brain. *Cell*, **2002**, 109, 243-55 | 56.2 | 371 |
| 75 | Target neuron prespecification in the olfactory map of Drosophila. *Nature*, **2001**, 414, 204-8 | 50.4 | 334 |
| 74 | Complementary function and integrated wiring of the evolutionarily distinct Drosophila olfactory subsystems. *Journal of Neuroscience*, **2011**, 31, 13357-75 | 6.6 | 329 |
| 73 | Cellular organization of the neural circuit that drives Drosophila courtship behavior. *Current Biology* , **2010**, 20, 1602-14 | 6.3 | 261 |
| 72 | An olfactory receptor for food-derived odours promotes male courtship in Drosophila. *Nature*, **2011** , 478, 236-40 | 50.4 | 233 |
| 71 | Olfactory information processing in Drosophila. *Current Biology*, **2009**, 19, R700-13 | 6.3 | 217 |
| 70 | A connectome and analysis of the adult central brain. *ELife*, **2020**, 9, | 8.9 | 213 |
| 69 | Sexual dimorphism in the fly brain. *Current Biology*, **2010**, 20, 1589-601 | 6.3 | 203 |
| 68 | Developmental origin of wiring specificity in the olfactory system of Drosophila. *Development (Cambridge)*, **2004**, 131, 117-30 | 6.6 | 181 |
| 67 | A bidirectional circuit switch reroutes pheromone signals in male and female brains. *Cell*, **2013**, 155, 1610-23 | 56.2 | 148 |
| 66 | NBLAST: Rapid, Sensitive Comparison of Neuronal Structure and Construction of Neuron Family Databases. *Neuron*, **2016**, 91, 293-311 | 13.9 | 143 |
| 65 | Quantitative measurements of alternating finger tapping in Parkinson's disease correlate with UPDRS motor disability and reveal the improvement in fine motor control from medication and deep brain stimulation. *Movement Disorders*, **2005**, 20, 1286-98 | 7 | 137 |
| 64 | From lineage to wiring specificity. POU domain transcription factors control precise connections of Drosophila olfactory projection neurons. *Cell*, **2003**, 112, 157-67 | 56.2 | 136 |
| 63 | Glomerular maps without cellular redundancy at successive levels of the Drosophila larval olfactory circuit. *Current Biology*, **2005**, 15, 982-92 | 6.3 | 126 |
| 62 | Integration of Parallel Opposing Memories Underlies Memory Extinction. *Cell*, **2018**, 175, 709-722.e15 | 56.2 | 104 |

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| 61 | The DIADEM data sets: representative light microscopy images of neuronal morphology to advance automation of digital reconstructions. *Neuroinformatics*, **2011**, 9, 143-57 | 3.2 | 100 |
| 60 | Development of neuronal connectivity in Drosophila antennal lobes and mushroom bodies. *Current Opinion in Neurobiology*, **2002**, 12, 80-6 | 7.6 | 90 |
| 59 | Neurogenetic dissection of the lateral horn reveals major outputs, diverse behavioural functions, and interactions with the mushroom body. *ELife*, **2019**, 8, | 8.9 | 73 |
| 58 | The connectome of the adult Drosophila mushroom body provides insights into function. *ELife*, **2020**, 9, | 8.9 | 70 |
| 57 | Complete Connectomic Reconstruction of Olfactory Projection Neurons in the Fly Brain. *Current Biology*, **2020**, 30, 3183-3199.e6 | 6.3 | 65 |
| 56 | The natverse, a versatile toolbox for combining and analysing neuroanatomical data. *ELife*, **2020**, 9, | 8.9 | 62 |
| 55 | Olfactory receptor and circuit evolution promote host specialization. *Nature*, **2020**, 579, 402-408 | 50.4 | 61 |
| 54 | Wiring specificity in the olfactory system. *Seminars in Cell and Developmental Biology*, **2006**, 17, 50-65 | 7.5 | 58 |
| 53 | Functional and anatomical specificity in a higher olfactory centre. *ELife*, **2019**, 8, | 8.9 | 54 |
| 52 | Communication from Learned to Innate Olfactory Processing Centers Is Required for Memory Retrieval in Drosophila. *Neuron*, **2018**, 100, 651-668.e8 | 13.9 | 51 |
| 51 | Ultrafast tissue staining with chemical tags. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E3805-14 | 11.5 | 50 |
| 50 | Pheromone processing in Drosophila. *Current Opinion in Neurobiology*, **2015**, 34, 149-57 | 7.6 | 48 |
| 49 | Automatic Segmentation of Drosophila Neural Compartments Using GAL4 Expression Data Reveals Novel Visual Pathways. *Current Biology*, **2016**, 26, 1943-1954 | 6.3 | 48 |
| 48 | A Neural Circuit Arbitrates between Persistence and Withdrawal in Hungry Drosophila. *Neuron*, **2019**, 104, 544-558.e6 | 13.9 | 46 |
| 47 | Neuronal cell types in the fly: single-cell anatomy meets single-cell genomics. *Current Opinion in Neurobiology*, **2019**, 56, 125-134 | 7.6 | 41 |
| 46 | Connectomics Analysis Reveals First-, Second-, and Third-Order Thermosensory and Hygrosensory Neurons in the Adult Drosophila Brain. *Current Biology*, **2020**, 30, 3167-3182.e4 | 6.3 | 41 |
| 45 | Sparse and combinatorial neuron labelling. *Current Opinion in Neurobiology*, **2012**, 22, 101-10 | 7.6 | 40 |
| 44 | Learning from connectomics on the fly. *Current Opinion in Insect Science*, **2017**, 24, 96-105 | 5.1 | 34 |

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| 43 | Facilitating Neuron-Specific Genetic Manipulations in Using a Split GAL4 Repressor. *Genetics*, **2017**, 206, 775-784 | 4 | 31 |
| 42 | Olfactory Neurons and Brain Centers Directing Oviposition Decisions in Drosophila. *Cell Reports*, **2018**, 24, 1667-1678 | 10.6 | 31 |
| 41 | Automated Reconstruction of a Serial-Section EM Drosophila Brain with Flood-Filling Networks and Local Realignment | | 25 |
| 40 | Automatic detection of synaptic partners in a whole-brain Drosophila electron microscopy data set. *Nature Methods*, **2021**, 18, 771-774 | 21.6 | 24 |
| 39 | A strategy for building neuroanatomy ontologies. *Bioinformatics*, **2012**, 28, 1262-9 | 7.2 | 23 |
| 38 | Neural circuit basis of aversive odour processing in Drosophila from sensory input to descending output | | 23 |
| 37 | Fly Cell Atlas: A single-nucleus transcriptomic atlas of the adult fruit fly.. *Science*, **2022**, 375, eabk2432 | 33.3 | 23 |
| 36 | Information flow, cell types and stereotypy in a full olfactory connectome. *ELife*, **2021**, 10, | 8.9 | 22 |
| 35 | Genetically targeted 3D visualisation of Drosophila neurons under Electron Microscopy and X-Ray Microscopy using miniSOG. *Scientific Reports*, **2016**, 6, 38863 | 4.9 | 22 |
| 34 | Input Connectivity Reveals Additional Heterogeneity of Dopaminergic Reinforcement in Drosophila. *Current Biology*, **2020**, 30, 3200-3211.e8 | 6.3 | 21 |
| 33 | Chemoreceptor Co-Expression in Drosophila Olfactory Neurons | | 18 |
| 32 | Second-Generation Chemical Tags: Sensitivity, Versatility, and Speed. *Genetics*, **2017**, 205, 1399-1408 | 4 | 14 |
| 31 | The natverse: a versatile computational toolbox to combine and analyse neuroanatomical data | | 14 |
| 30 | Insect olfaction: a map of smell in the brain. *Current Biology*, **2005**, 15, R668-70 | 6.3 | 13 |
| 29 | Optimization of fluorophores for chemical tagging and immunohistochemistry of Drosophila neurons. *PLoS ONE*, **2018**, 13, e0200759 | 3.7 | 12 |
| 28 | Neurotransmitter Classification from Electron Microscopy Images at Synaptic Sites in Drosophila | | 12 |
| 27 | A mutual information approach to automate identification of neuronal clusters in Drosophila brain images. *Frontiers in Neuroinformatics*, **2012**, 6, 21 | 3.9 | 11 |
| 26 | Circuits for integrating learnt and innate valences in the fly brain | | 10 |

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| 25 | NBLAST: Rapid, sensitive comparison of neuronal structure and construction of neuron family databases | | 9 |
| 24 | The connectome of the adult Drosophila mushroom body: implications for function | | 9 |
| 23 | Circuits for integrating learned and innate valences in the insect brain. *ELife*, **2021**, 10, | 8.9 | 8 |
| 22 | Drosophila olfaction: the end of stereotypy?. *Neuron*, **2008**, 59, 843-5 | 13.9 | 6 |
| 21 | BAcTrace, a tool for retrograde tracing of neuronal circuits in Drosophila. *Nature Methods*, **2020**, 17, 1254-1261 | 41.2 | 6 |
| 20 | Wiring specificity: axon-dendrite matching refines the olfactory map. *Current Biology*, **2006**, 16, R373-6 | 6.3 | 5 |
| 19 | Development of wiring specificity of the Drosophila olfactory system. *Chemical Senses*, **2005**, 30 Suppl 1, i94 | 4.8 | 5 |
| 18 | Functional and Anatomical Specificity in a Higher Olfactory Centre | | 5 |
| 17 | Information flow, cell types and stereotypy in a full olfactory connectome | | 5 |
| 16 | A neural circuit arbitrates between perseverance and withdrawal in hungry Drosophila | | 5 |
| 15 | Neuroanatomy: decoding the fly brain. *Current Biology*, **2011**, 21, R19-20 | 6.3 | 4 |
| 14 | Neuroscience. Calcium and CREST for healthy dendrites. *Science*, **2004**, 303, 179-81 | 33.3 | 4 |
| 13 | Communication from learned to innate olfactory processing centers is required for memory retrieval in Drosophila | | 4 |
| 12 | Connectomics analysis reveals first, second, and third order thermosensory and hygrosensory neurons in the adult Drosophila brain | | 3 |
| 11 | Author response: A connectome and analysis of the adult Drosophila central brain **2020**, | | 3 |
| 10 | Neurogenetic dissection of the Drosophila innate olfactory processing center | | 3 |
| 9 | The making of an olfactory specialist | | 3 |
| 8 | Input connectivity reveals additional heterogeneity of dopaminergic reinforcement in Drosophila | | 2 |

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| 7 | BAcTrace a new tool for retrograde tracing of neuronal circuits | | 2 |
| 6 | Chemoreceptor co-expression in olfactory neurons.. *ELife*, **2022**, 11, | 8.9 | 2 |
| 5 | Behavior: Why Male Flies Sing Different Songs. *Current Biology*, **2019**, 29, R243-R245 | 6.3 | 0 |
| 4 | Mating-driven variability in olfactory local interneuron wiring.. *Science Advances*, **2022**, 8, eabm7723 | 14.3 | 0 |
| 3 | Insect Olfaction: Telling Food from Foe. *Current Biology*, **2015**, 25, R995-8 | 6.3 | |
| 2 | Olfactory coding: when smells collide. *Current Biology*, **2006**, 16, R1000-3 | 6.3 | |
| 1 | Neurodevelopment: Comparative connectomics and the study of circuit assembly. *Current Biology*, **2021**, 31, R452-R454 | 6.3 | |