

Gregory S X E Jefferis

List of Publications by Year in Descending Order

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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.

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	Fly Cell Atlas: A single-nucleus transcriptomic atlas of the adult fruit fly.. <i>Science</i> , 2022 , 375, eabk2432	33.3	23
77	Chemoreceptor co-expression in olfactory neurons.. <i>ELife</i> , 2022 , 11,	8.9	2
76	Mating-driven variability in olfactory local interneuron wiring.. <i>Science Advances</i> , 2022 , 8, eabm7723	14.3	0
75	Circuits for integrating learned and innate valences in the insect brain. <i>ELife</i> , 2021 , 10,	8.9	8
74	Information flow, cell types and stereotypy in a full olfactory connectome. <i>ELife</i> , 2021 , 10,	8.9	22
73	Neurodevelopment: Comparative connectomics and the study of circuit assembly. <i>Current Biology</i> , 2021 , 31, R452-R454	6.3	
72	Automatic detection of synaptic partners in a whole-brain Drosophila electron microscopy data set. <i>Nature Methods</i> , 2021 , 18, 771-774	21.6	24
71	Olfactory receptor and circuit evolution promote host specialization. <i>Nature</i> , 2020 , 579, 402-408	50.4	61
70	The natverse, a versatile toolbox for combining and analysing neuroanatomical data. <i>ELife</i> , 2020 , 9,	8.9	62
69	A connectome and analysis of the adult central brain. <i>ELife</i> , 2020 , 9,	8.9	213
68	Author response: A connectome and analysis of the adult Drosophila central brain 2020 ,		3
67	The connectome of the adult Drosophila mushroom body provides insights into function. <i>ELife</i> , 2020 , 9,	8.9	70
66	Connectomics Analysis Reveals First-, Second-, and Third-Order Thermosensory and Hygrosensory Neurons in the Adult Drosophila Brain. <i>Current Biology</i> , 2020 , 30, 3167-3182.e4	6.3	41
65	Input Connectivity Reveals Additional Heterogeneity of Dopaminergic Reinforcement in Drosophila. <i>Current Biology</i> , 2020 , 30, 3200-3211.e8	6.3	21
64	Complete Connectomic Reconstruction of Olfactory Projection Neurons in the Fly Brain. <i>Current Biology</i> , 2020 , 30, 3183-3199.e6	6.3	65
63	BACTrace, a tool for retrograde tracing of neuronal circuits in Drosophila. <i>Nature Methods</i> , 2020 , 17, 1254-1261	12.6	16
62	A Neural Circuit Arbitrates between Persistence and Withdrawal in Hungry Drosophila. <i>Neuron</i> , 2019 , 104, 544-558.e6	13.9	46

61	Neuronal cell types in the fly: single-cell anatomy meets single-cell genomics. <i>Current Opinion in Neurobiology</i> , 2019 , 56, 125-134	7.6	41
60	Behavior: Why Male Flies Sing Different Songs. <i>Current Biology</i> , 2019 , 29, R243-R245	6.3	0
59	Neurogenetic dissection of the lateral horn reveals major outputs, diverse behavioural functions, and interactions with the mushroom body. <i>ELife</i> , 2019 , 8,	8.9	73
58	Functional and anatomical specificity in a higher olfactory centre. <i>ELife</i> , 2019 , 8,	8.9	54
57	A Complete Electron Microscopy Volume of the Brain of Adult <i>Drosophila melanogaster</i> . <i>Cell</i> , 2018 , 174, 730-743.e22	56.2	393
56	Optimization of fluorophores for chemical tagging and immunohistochemistry of <i>Drosophila</i> neurons. <i>PLoS ONE</i> , 2018 , 13, e0200759	3.7	12
55	Olfactory Neurons and Brain Centers Directing Oviposition Decisions in <i>Drosophila</i> . <i>Cell Reports</i> , 2018 , 24, 1667-1678	10.6	31
54	Communication from Learned to Innate Olfactory Processing Centers Is Required for Memory Retrieval in <i>Drosophila</i> . <i>Neuron</i> , 2018 , 100, 651-668.e8	13.9	51
53	Integration of Parallel Opposing Memories Underlies Memory Extinction. <i>Cell</i> , 2018 , 175, 709-722.e15	56.2	104
52	Second-Generation Chemical Tags: Sensitivity, Versatility, and Speed. <i>Genetics</i> , 2017 , 205, 1399-1408	4	14
51	Facilitating Neuron-Specific Genetic Manipulations in Using a Split GAL4 Repressor. <i>Genetics</i> , 2017 , 206, 775-784	4	31
50	Learning from connectomics on the fly. <i>Current Opinion in Insect Science</i> , 2017 , 24, 96-105	5.1	34
49	Genetically targeted 3D visualisation of <i>Drosophila</i> neurons under Electron Microscopy and X-Ray Microscopy using miniSOG. <i>Scientific Reports</i> , 2016 , 6, 38863	4.9	22
48	NBLAST: Rapid, Sensitive Comparison of Neuronal Structure and Construction of Neuron Family Databases. <i>Neuron</i> , 2016 , 91, 293-311	13.9	143
47	Automatic Segmentation of <i>Drosophila</i> Neural Compartments Using GAL4 Expression Data Reveals Novel Visual Pathways. <i>Current Biology</i> , 2016 , 26, 1943-1954	6.3	48
46	Pheromone processing in <i>Drosophila</i> . <i>Current Opinion in Neurobiology</i> , 2015 , 34, 149-57	7.6	48
45	Insect Olfaction: Telling Food from Foe. <i>Current Biology</i> , 2015 , 25, R995-8	6.3	
44	Ultrafast tissue staining with chemical tags. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E3805-14	11.5	50

43	A bidirectional circuit switch reroutes pheromone signals in male and female brains. <i>Cell</i> , 2013 , 155, 1610-23	10.2	148
42	A mutual information approach to automate identification of neuronal clusters in Drosophila brain images. <i>Frontiers in Neuroinformatics</i> , 2012 , 6, 21	3.9	11
41	A strategy for building neuroanatomy ontologies. <i>Bioinformatics</i> , 2012 , 28, 1262-9	7.2	23
40	Sparse and combinatorial neuron labelling. <i>Current Opinion in Neurobiology</i> , 2012 , 22, 101-10	7.6	40
39	An olfactory receptor for food-derived odours promotes male courtship in Drosophila. <i>Nature</i> , 2011 , 478, 236-40	50.4	233
38	Neuroanatomy: decoding the fly brain. <i>Current Biology</i> , 2011 , 21, R19-20	6.3	4
37	The DIADEM data sets: representative light microscopy images of neuronal morphology to advance automation of digital reconstructions. <i>Neuroinformatics</i> , 2011 , 9, 143-57	3.2	100
36	Complementary function and integrated wiring of the evolutionarily distinct Drosophila olfactory subsystems. <i>Journal of Neuroscience</i> , 2011 , 31, 13357-75	6.6	329
35	Sexual dimorphism in the fly brain. <i>Current Biology</i> , 2010 , 20, 1589-601	6.3	203
34	Cellular organization of the neural circuit that drives Drosophila courtship behavior. <i>Current Biology</i> , 2010 , 20, 1602-14	6.3	261
33	Olfactory information processing in Drosophila. <i>Current Biology</i> , 2009 , 19, R700-13	6.3	217
32	Drosophila olfaction: the end of stereotypy?. <i>Neuron</i> , 2008 , 59, 843-5	13.9	6
31	Comprehensive maps of Drosophila higher olfactory centers: spatially segregated fruit and pheromone representation. <i>Cell</i> , 2007 , 128, 1187-203	56.2	466
30	Wiring specificity: axon-dendrite matching refines the olfactory map. <i>Current Biology</i> , 2006 , 16, R373-6	6.3	5
29	Olfactory coding: when smells collide. <i>Current Biology</i> , 2006 , 16, R1000-3	6.3	
28	Wiring specificity in the olfactory system. <i>Seminars in Cell and Developmental Biology</i> , 2006 , 17, 50-65	7.5	58
27	Glomerular maps without cellular redundancy at successive levels of the Drosophila larval olfactory circuit. <i>Current Biology</i> , 2005 , 15, 982-92	6.3	126
26	Insect olfaction: a map of smell in the brain. <i>Current Biology</i> , 2005 , 15, R668-70	6.3	13

25	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. <i>Movement Disorders</i> , 2005 , 20, 1286-98	7	137
24	Development of wiring specificity of the Drosophila olfactory system. <i>Chemical Senses</i> , 2005 , 30 Suppl 1, i94	4.8	5
23	Developmental origin of wiring specificity in the olfactory system of Drosophila. <i>Development (Cambridge)</i> , 2004 , 131, 117-30	6.6	181
22	Neuroscience. Calcium and CREST for healthy dendrites. <i>Science</i> , 2004 , 303, 179-81	33.3	4
21	From lineage to wiring specificity. POU domain transcription factors control precise connections of Drosophila olfactory projection neurons. <i>Cell</i> , 2003 , 112, 157-67	56.2	136
20	Development of neuronal connectivity in Drosophila antennal lobes and mushroom bodies. <i>Current Opinion in Neurobiology</i> , 2002 , 12, 80-6	7.6	90
19	Representation of the glomerular olfactory map in the Drosophila brain. <i>Cell</i> , 2002 , 109, 243-55	56.2	371
18	Target neuron prespecification in the olfactory map of Drosophila. <i>Nature</i> , 2001 , 414, 204-8	50.4	334
17	Connectomics analysis reveals first, second, and third order thermosensory and hygrosensory neurons in the adult Drosophila brain		3
16	Input connectivity reveals additional heterogeneity of dopaminergic reinforcement in Drosophila		2
15	Functional and Anatomical Specificity in a Higher Olfactory Centre		5
14	Neurogenetic dissection of the Drosophila innate olfactory processing center		3
13	NBLAST: Rapid, sensitive comparison of neuronal structure and construction of neuron family databases		9
12	The natverse: a versatile computational toolbox to combine and analyse neuroanatomical data		14
11	BACTrace a new tool for retrograde tracing of neuronal circuits		2
10	Circuits for integrating learnt and innate valences in the fly brain		10
9	Neurotransmitter Classification from Electron Microscopy Images at Synaptic Sites in Drosophila		12
8	The connectome of the adult Drosophila mushroom body: implications for function		9

7	Chemoreceptor Co-Expression in Drosophila Olfactory Neurons	18
6	Information flow, cell types and stereotypy in a full olfactory connectome	5
5	A neural circuit arbitrates between perseverance and withdrawal in hungry Drosophila	5
4	Neural circuit basis of aversive odour processing in Drosophila from sensory input to descending output	23
3	The making of an olfactory specialist	3
2	Automated Reconstruction of a Serial-Section EM Drosophila Brain with Flood-Filling Networks and Local Realignment	25
1	Communication from learned to innate olfactory processing centers is required for memory retrieval in Drosophila	4