

Cornelia I Bargmann

List of Publications by Year in descending order

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158
papers

38,576
citations

2797

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23744
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#	ARTICLE	IF	CITATIONS
1	Context-dependent reversal of odorant preference is driven by inversion of the response in a single sensory neuron type. <i>PLoS Biology</i> , 2022, 20, e3001677.	2.6	37
2	An oxytocin/vasopressin-related neuropeptide modulates social foraging behavior in the clonal raider ant. <i>PLoS Biology</i> , 2021, 19, e3001305.	2.6	16
3	Behavioral control by depolarized and hyperpolarized states of an integrating neuron. <i>ELife</i> , 2021, 10, .	2.8	19
4	An Adaptive-Threshold Mechanism for Odor Sensation and Animal Navigation. <i>Neuron</i> , 2020, 105, 534-548.e13.	3.8	26
5	Parallel Multimodal Circuits Control an Innate Foraging Behavior. <i>Neuron</i> , 2019, 102, 407-419.e8.	3.8	60
6	Reliability of an interneuron response depends on an integrated sensory state. <i>ELife</i> , 2019, 8, .	2.8	29
7	A natural variant and engineered mutation in a GPCR promote DEET resistance in <i>C. elegans</i> . <i>Nature</i> , 2018, 562, 119-123.	13.7	18
8	<i>C.Âlegans</i> AWA Olfactory Neurons Fire Calcium-Mediated All-or-None Action Potentials. <i>Cell</i> , 2018, 175, 57-70.e17.	13.5	90
9	Dissection of neuronal gap junction circuits that regulate social behavior in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1263-E1272.	3.3	48
10	Neuromodulatory Control of Long-Term Behavioral Patterns and Individuality across Development. <i>Cell</i> , 2017, 171, 1649-1662.e10.	13.5	124
11	Oxytocin mediated behavior in invertebrates: An evolutionary perspective. <i>Developmental Neurobiology</i> , 2017, 77, 128-142.	1.5	38
12	Diverse modes of synaptic signaling, regulation, and plasticity distinguish two classes of <i>C. elegans</i> glutamatergic neurons. <i>ELife</i> , 2017, 6, .	2.8	34
13	Parallel encoding of sensory history and behavioral preference during <i>Caenorhabditis elegans</i> olfactory learning. <i>ELife</i> , 2016, 5, .	2.8	57
14	Sensitive red protein calcium indicators for imaging neural activity. <i>ELife</i> , 2016, 5, .	2.8	813
15	Balancing selection shapes density-dependent foraging behaviour. <i>Nature</i> , 2016, 539, 254-258.	13.7	132
16	Multifocus microscopy with precise color multi-phase diffractive optics applied in functional neuronal imaging. <i>Biomedical Optics Express</i> , 2016, 7, 855.	1.5	47
17	Distinct Circuits for the Formation and Retrieval of an Imprinted Olfactory Memory. <i>Cell</i> , 2016, 164, 632-643.	13.5	122
18	A stochastic neuronal model predicts random search behaviors at multiple spatial scales in <i>C. elegans</i> . <i>ELife</i> , 2016, 5, .	2.8	83

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19	Regulatory changes in two chemoreceptor genes contribute to a <i>Caenorhabditis elegans</i> QTL for foraging behavior. <i>ELife</i> , 2016, 5, .	2.8	63
20	How the New Neuroscience Will Advance Medicine. <i>JAMA - Journal of the American Medical Association</i> , 2015, 314, 221.	3.8	6
21	MultiFocus Polarization Microscope (MF-PolScope) for 3D polarization imaging of up to 25 focal planes simultaneously. <i>Optics Express</i> , 2015, 23, 7734.	1.7	76
22	Feedback from Network States Generates Variability in a Probabilistic Olfactory Circuit. <i>Cell</i> , 2015, 161, 215-227.	13.5	204
23	The BRAIN Initiative: developing technology to catalyse neuroscience discovery. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140164.	1.8	179
24	A Circuit for Gradient Climbing in <i>C.Âelegans</i> Chemotaxis. <i>Cell Reports</i> , 2015, 12, 1748-1760.	2.9	120
25	Inducible and titratable silencing of <i>Caenorhabditis elegans</i> neurons in vivo with histamine-gated chloride channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2770-2775.	3.3	226
26	Multigenic Natural Variation Underlies <i>Caenorhabditis elegans</i> Olfactory Preference for the Bacterial Pathogen <i>Serratia marcescens</i> . <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 265-276.	0.8	68
27	What the BRAIN Initiative Means for Psychiatry. <i>American Journal of Psychiatry</i> , 2014, 171, 1038-1040.	4.0	7
28	The Brain Research Through Advancing Innovative Neurotechnologies (BRAIN) Initiative and Neurology. <i>JAMA Neurology</i> , 2014, 71, 675.	4.5	67
29	Temporal Responses of <i>C.Âelegans</i> Chemosensory Neurons Are Preserved in Behavioral Dynamics. <i>Neuron</i> , 2014, 81, 616-628.	3.8	110
30	Serotonin and the Neuropeptide PDF Initiate and Extend Opposing Behavioral States in <i>C.Âelegans</i> . <i>Cell</i> , 2013, 154, 1023-1035.	13.5	356
31	From the connectome to brain function. <i>Nature Methods</i> , 2013, 10, 483-490.	9.0	451
32	Fast multicolor 3D imaging using aberration-corrected multifocus microscopy. <i>Nature Methods</i> , 2013, 10, 60-63.	9.0	375
33	An optimized fluorescent probe for visualizing glutamate neurotransmission. <i>Nature Methods</i> , 2013, 10, 162-170.	9.0	827
34	Genetically encoded calcium indicators for multi-color neural activity imaging and combination with optogenetics. <i>Frontiers in Molecular Neuroscience</i> , 2013, 6, 2.	1.4	629
35	High-throughput imaging of neuronal activity in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4266-73.	3.3	164
36	Acute Behavioral Responses to Pheromones in <i>C. elegans</i> (Adult Behaviors: Attraction, Repulsion). <i>Methods in Molecular Biology</i> , 2013, 1068, 285-292.	0.4	13

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37	Long-Range Regulatory Polymorphisms Affecting a GABA Receptor Constitute a Quantitative Trait Locus (QTL) for Social Behavior in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2012, 8, e1003157.	1.5	52
38	Laser Microsurgery in <i>Caenorhabditis elegans</i> . <i>Methods in Cell Biology</i> , 2012, 107, 177-206.	0.5	105
39	Neuromodulatory State and Sex Specify Alternative Behaviors through Antagonistic Synaptic Pathways in <i>C. elegans</i> . <i>Neuron</i> , 2012, 75, 585-592.	3.8	141
40	Oxytocin/Vasopressin-Related Peptides Have an Ancient Role in Reproductive Behavior. <i>Science</i> , 2012, 338, 540-543.	6.0	225
41	Optimization of a GCaMP Calcium Indicator for Neural Activity Imaging. <i>Journal of Neuroscience</i> , 2012, 32, 13819-13840.	1.7	1,099
42	UNC-33 (CRMP) and ankyrin organize microtubules and localize kinesin to polarize axon-dendrite sorting. <i>Nature Neuroscience</i> , 2012, 15, 48-56.	7.1	152
43	The Mind of a Male?. <i>Science</i> , 2012, 337, 416-417.	6.0	0
44	Beyond the connectome: How neuromodulators shape neural circuits. <i>BioEssays</i> , 2012, 34, 458-465.	1.2	406
45	Specific Expression of Channelrhodopsin-2 in Single Neurons of <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2012, 7, e43164.	1.1	69
46	Genetic contributions to behavioural diversity at the gene-environment interface. <i>Nature Reviews Genetics</i> , 2011, 12, 809-820.	7.7	90
47	Catecholamine receptor polymorphisms affect decision-making in <i>C. elegans</i> . <i>Nature</i> , 2011, 472, 313-318.	13.7	189
48	Parallel evolution of domesticated <i>Caenorhabditis</i> species targets pheromone receptor genes. <i>Nature</i> , 2011, 477, 321-325.	13.7	225
49	Microtubule-based localization of a synaptic calcium-signaling complex is required for left-right neuronal asymmetry in <i>C. elegans</i> . <i>Development (Cambridge)</i> , 2011, 138, 3509-3518.	1.2	38
50	Behavioral Choice between Conflicting Alternatives Is Regulated by a Receptor Guanylyl Cyclase, GCY-28, and a Receptor Tyrosine Kinase, SCD-2, in AIA Interneurons of <i>Caenorhabditis elegans</i> . <i>Journal of Neuroscience</i> , 2011, 31, 3007-3015.	1.7	106
51	High-content behavioral analysis of <i>Caenorhabditis elegans</i> in precise spatiotemporal chemical environments. <i>Nature Methods</i> , 2011, 8, 599-605.	9.0	214
52	Neuropeptide feedback modifies odor-evoked dynamics in <i>Caenorhabditis elegans</i> olfactory neurons. <i>Nature Neuroscience</i> , 2010, 13, 615-621.	7.1	213
53	The homeodomain protein <i>hmbx-1</i> maintains asymmetric gene expression in adult <i>C. elegans</i> olfactory neurons. <i>Genes and Development</i> , 2010, 24, 1802-1815.	2.7	30
54	The Tripartite Motif Protein MADD-2 Functions with the Receptor UNC-40 (DCC) in Netrin-Mediated Axon Attraction and Branching. <i>Developmental Cell</i> , 2010, 18, 950-960.	3.1	61

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55	Wnt-Ror signaling to SIA and SIB neurons directs anterior axon guidance and nerve ring placement in <i>C. elegans</i> . <i>Development (Cambridge)</i> , 2009, 136, 3801-3810.	1.2	64
56	Transcriptional regulation and stabilization of left-right neuronal identity in <i>C. elegans</i> . <i>Genes and Development</i> , 2009, 23, 345-358.	2.7	48
57	A hub-and-spoke circuit drives pheromone attraction and social behaviour in <i>C. elegans</i> . <i>Nature</i> , 2009, 458, 1171-1175.	13.7	444
58	Imaging neural activity in worms, flies and mice with improved GCaMP calcium indicators. <i>Nature Methods</i> , 2009, 6, 875-881.	9.0	1,759
59	Presynaptic CaV2 calcium channel traffic requires CALF-1 and the $\alpha_2\beta_1$ subunit UNC-36. <i>Nature Neuroscience</i> , 2009, 12, 1257-1265.	7.1	76
60	Quantitative Mapping of a Digenic Behavioral Trait Implicates Globin Variation in <i>C. elegans</i> Sensory Behaviors. <i>Neuron</i> , 2009, 61, 692-699.	3.8	219
61	Neurons Detect Increases and Decreases in Oxygen Levels Using Distinct Guanylate Cyclases. <i>Neuron</i> , 2009, 61, 865-879.	3.8	253
62	GFP Reconstitution Across Synaptic Partners (GRASP) Defines Cell Contacts and Synapses in Living Nervous Systems. <i>Neuron</i> , 2008, 57, 353-363.	3.8	644
63	A Behavioral Switch: cGMP and PKC Signaling in Olfactory Neurons Reverses Odor Preference in <i>C. elegans</i> . <i>Neuron</i> , 2008, 59, 959-971.	3.8	126
64	Innate Immunity in <i>Caenorhabditis elegans</i> Is Regulated by Neurons Expressing NPR-1/GPCR. <i>Science</i> , 2008, 322, 460-464.	6.0	210
65	Hypoxia and the HIF-1 transcriptional pathway reorganize a neuronal circuit for oxygen-dependent behavior in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 7321-7326.	3.3	88
66	Detection and avoidance of a natural product from the pathogenic bacterium <i>Serratia marcescens</i> by <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2295-2300.	3.3	320
67	An Innexin-Dependent Cell Network Establishes Left-Right Neuronal Asymmetry in <i>C. elegans</i> . <i>Cell</i> , 2007, 129, 787-799.	13.5	123
68	Left-right olfactory asymmetry results from antagonistic functions of voltage-activated calcium channels and the Raw repeat protein OLRN-1 in <i>C. elegans</i> . <i>Neural Development</i> , 2007, 2, 24.	1.1	61
69	Microfluidics for in vivo imaging of neuronal and behavioral activity in <i>Caenorhabditis elegans</i> . <i>Nature Methods</i> , 2007, 4, 727-731.	9.0	539
70	Dissecting a circuit for olfactory behaviour in <i>Caenorhabditis elegans</i> . <i>Nature</i> , 2007, 450, 63-70.	13.7	573
71	Wnt Signals and Frizzled Activity Orient Anterior-Posterior Axon Outgrowth in <i>C. elegans</i> . <i>Developmental Cell</i> , 2006, 10, 379-390.	3.1	176
72	Multiple Wnts and Frizzled Receptors Regulate Anteriorly Directed Cell and Growth Cone Migrations in <i>Caenorhabditis elegans</i> . <i>Developmental Cell</i> , 2006, 10, 367-377.	3.1	151

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73	The Claudin Superfamily Protein NSY-4 Biases Lateral Signaling to Generate Left-Right Asymmetry in <i>C. elegans</i> Olfactory Neurons. <i>Neuron</i> , 2006, 51, 291-302.	3.8	38
74	UNC-6/Netrin induces neuronal asymmetry and defines the site of axon formation. <i>Nature Neuroscience</i> , 2006, 9, 511-518.	7.1	237
75	Hierarchical assembly of presynaptic components in defined <i>C. elegans</i> synapses. <i>Nature Neuroscience</i> , 2006, 9, 1488-1498.	7.1	166
76	Comparative chemosensation from receptors to ecology. <i>Nature</i> , 2006, 444, 295-301.	13.7	293
77	Chemosensation in <i>C. elegans</i> . <i>WormBook</i> , 2006, , 1-29.	5.3	603
78	MIG-10/Lamellipodin and AGE-1/PI3K Promote Axon Guidance and Outgrowth in Response to Slit and Netrin. <i>Current Biology</i> , 2006, 16, 854-862.	1.8	120
79	A Distributed Chemosensory Circuit for Oxygen Preference in <i>C. elegans</i> . <i>PLoS Biology</i> , 2006, 4, e274.	2.6	199
80	TRP CHANNELS INC. <i>ELEGANS</i> . <i>Annual Review of Physiology</i> , 2006, 68, 719-736.	5.6	96
81	Pathogenic bacteria induce aversive olfactory learning in <i>Caenorhabditis elegans</i> . <i>Nature</i> , 2005, 438, 179-184.	13.7	679
82	Identification of Transcriptional Regulatory Elements in Chemosensory Receptor Genes by Probabilistic Segmentation. <i>Current Biology</i> , 2005, 15, 347-352.	1.8	42
83	Neuroscience: Comradie and Nostalgia in Nematodes. <i>Current Biology</i> , 2005, 15, R832-R833.	1.8	2
84	A circuit for navigation in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3184-3191.	3.3	674
85	A Toll-interleukin 1 repeat protein at the synapse specifies asymmetric odorant receptor expression via ASK1 MAPKKK signaling. <i>Genes and Development</i> , 2005, 19, 270-281.	2.7	168
86	In Appreciation of Lawrence C. Katz, 1956-2005. <i>Neuron</i> , 2005, 48, 897-900.	3.8	0
87	Inhibition of Netrin-Mediated Axon Attraction by a Receptor Protein Tyrosine Phosphatase. <i>Science</i> , 2004, 305, 103-106.	6.0	56
88	Comparing genomic expression patterns across species identifies shared transcriptional profile in aging. <i>Nature Genetics</i> , 2004, 36, 197-204.	9.4	434
89	Invertebrate nociception: Behaviors, neurons and molecules. <i>Journal of Neurobiology</i> , 2004, 61, 161-174.	3.7	85
90	Specific Polyunsaturated Fatty Acids Drive TRPV-Dependent Sensory Signaling In Vivo. <i>Cell</i> , 2004, 119, 889-900.	13.5	160

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91	Mechanosensory Neurite Termination and Tiling Depend on SAX-2 and the SAX-1 Kinase. <i>Neuron</i> , 2004, 44, 239-249.	3.8	110
92	Synaptic Specificity Is Generated by the Synaptic Guidepost Protein SYG-2 and Its Receptor, SYG-1. <i>Cell</i> , 2004, 116, 869-881.	13.5	277
93	Synaptic Specificity Is Generated by the Synaptic Guidepost Protein SYG-2 and Its Receptor, SYG-1. <i>Cell</i> , 2004, 117, 553.	13.5	5
94	Oxygen sensation and social feeding mediated by a <i>C. elegans</i> guanylate cyclase homologue. <i>Nature</i> , 2004, 430, 317-322.	13.7	529
95	Genes that act downstream of DAF-16 to influence the lifespan of <i>Caenorhabditis elegans</i> . <i>Nature</i> , 2003, 424, 277-283.	13.7	1,998
96	The Immunoglobulin Superfamily Protein SYG-1 Determines the Location of Specific Synapses in <i>C. elegans</i> . <i>Cell</i> , 2003, 112, 619-630.	13.5	287
97	A Central Role of the BK Potassium Channel in Behavioral Responses to Ethanol in <i>C. elegans</i> . <i>Cell</i> , 2003, 115, 655-666.	13.5	324
98	The Netrin Receptor UNC-40/DCC Stimulates Axon Attraction and Outgrowth through Enabled and, in Parallel, Rac and UNC-115/AbLIM. <i>Neuron</i> , 2003, 37, 53-65.	3.8	216
99	Otx/otd Homeobox Genes Specify Distinct Sensory Neuron Identities in <i>C. elegans</i> . <i>Developmental Cell</i> , 2003, 5, 621-633.	3.1	137
100	Mammalian TRPV4 (VR-OAC) directs behavioral responses to osmotic and mechanical stimuli in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 14531-14536.	3.3	310
101	Control of neuronal subtype identity by the <i>C. elegans</i> ARID protein CFI-1. <i>Genes and Development</i> , 2002, 16, 972-983.	2.7	44
102	SEK-1 MAPKK mediates Ca ²⁺ signaling to determine neuronal asymmetric development in <i>Caenorhabditis elegans</i> . <i>EMBO Reports</i> , 2002, 3, 56-62.	2.0	118
103	Accolade for <i>elegans</i> . <i>Cell</i> , 2002, 111, 759-762.	13.5	4
104	Combinatorial Expression of TRPV Channel Proteins Defines Their Sensory Functions and Subcellular Localization in <i>C. elegans</i> Neurons. <i>Neuron</i> , 2002, 35, 307-318.	3.8	417
105	The Cyclic GMP-Dependent Protein Kinase EGL-4 Regulates Olfactory Adaptation in <i>C. elegans</i> . <i>Neuron</i> , 2002, 36, 1079-1089.	3.8	178
106	<i>C. elegans</i> Responds to Chemical Repellents by Integrating Sensory Inputs from the Head and the Tail. <i>Current Biology</i> , 2002, 12, 730-734.	1.8	261
107	Single Ionic Channels of Two <i>Caenorhabditis elegans</i> Chemosensory Neurons in Native Membrane. <i>Journal of Membrane Biology</i> , 2002, 189, 55-66.	1.0	24
108	Social feeding in <i>Caenorhabditis elegans</i> is induced by neurons that detect aversive stimuli. <i>Nature</i> , 2002, 419, 899-903.	13.7	229

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109	Shared receptors in axon guidance: SAX-3/Robo signals via UNC-34/Enabled and a Netrin-independent UNC-40/DCC function. <i>Nature Neuroscience</i> , 2002, 5, 1147-1154.	7.1	144
110	The SAD-1 Kinase Regulates Presynaptic Vesicle Clustering and Axon Termination. <i>Neuron</i> , 2001, 29, 115-129.	3.8	166
111	Ca ²⁺ Signaling via the Neuronal Calcium Sensor-1 Regulates Associative Learning and Memory in <i>C. elegans</i> . <i>Neuron</i> , 2001, 30, 241-248.	3.8	205
112	Polarized Dendritic Transport and the AP-1 $\hat{1}/4$ 1 Clathrin Adaptor UNC-101 Localize Odorant Receptors to Olfactory Cilia. <i>Neuron</i> , 2001, 31, 277-287.	3.8	148
113	<i>C. elegans</i> Slit Acts in Midline, Dorsal-Ventral, and Anterior-Posterior Guidance via the SAX-3/Robo Receptor. <i>Neuron</i> , 2001, 32, 25-38.	3.8	209
114	The CaMKII UNC-43 Activates the MAPKKK NSY-1 to Execute a Lateral Signaling Decision Required for Asymmetric Olfactory Neuron Fates. <i>Cell</i> , 2001, 105, 221-232.	13.5	188
115	Dynamic regulation of axon guidance. <i>Nature Neuroscience</i> , 2001, 4, 1169-1176.	7.1	294
116	<i>C. elegans</i> odour discrimination requires asymmetric diversity in olfactory neurons. <i>Nature</i> , 2001, 410, 698-701.	13.7	213
117	Sensory experience and sensory activity regulate chemosensory receptor gene expression in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 11032-11038.	3.3	117
118	The <i>Caenorhabditis elegans</i> odr-2 Gene Encodes a Novel Ly-6-Related Protein Required for Olfaction. <i>Genetics</i> , 2001, 157, 211-224.	1.2	98
119	Three <i>C. elegans</i> Rac proteins and several alternative Rac regulators control axon guidance, cell migration and apoptotic cell phagocytosis. <i>Development (Cambridge)</i> , 2001, 128, 4475-4488.	1.2	197
120	Neuronal Cell Shape and Neurite Initiation Are Regulated by the Ndr Kinase SAX-1, a Member of the Orb6/COT-1/Warts Serine/Threonine Kinase Family. <i>Molecular Biology of the Cell</i> , 2000, 11, 3177-3190.	0.9	90
121	Simple Organisms. <i>Neurobiology of Disease</i> , 2000, 7, 520-522.	2.1	2
122	Olfaction and Odor Discrimination Are Mediated by the <i>C. elegans</i> Guanylyl Cyclase ODR-1. <i>Neuron</i> , 2000, 25, 575-586.	3.8	227
123	Role of a Class Dhc1b Dynein in Retrograde Transport of Ift Motors and Ift Raft Particles along Cilia, but Not Dendrites, in Chemosensory Neurons of Living <i>Caenorhabditis elegans</i> . <i>Journal of Cell Biology</i> , 1999, 147, 519-530.	2.3	276
124	Functional reconstitution of a heteromeric cyclic nucleotide-gated channel of <i>Caenorhabditis elegans</i> in cultured cells. <i>Brain Research</i> , 1999, 821, 160-168.	1.1	102
125	A Complex Sensory Map for Pheromones. <i>Neuron</i> , 1999, 22, 640-642.	3.8	4
126	Lateral Signaling Mediated by Axon Contact and Calcium Entry Regulates Asymmetric Odorant Receptor Expression in <i>C. elegans</i> . <i>Cell</i> , 1999, 99, 387-398.	13.5	261

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127	Making memories stick?. Nature, 1998, 391, 435-436.	13.7	3
128	The G α Protein ODR-3 Mediates Olfactory and Nociceptive Function and Controls Cilium Morphogenesis in <i>C. elegans</i> Olfactory Neurons. Neuron, 1998, 20, 55-67.	3.8	295
129	UNC-115, a Conserved Protein with Predicted LIM and Actin-Binding Domains, Mediates Axon Guidance in <i>C. elegans</i> . Neuron, 1998, 21, 385-392.	3.8	87
130	The Conserved Immunoglobulin Superfamily Member SAX-3/Robo Directs Multiple Aspects of Axon Guidance in <i>C. elegans</i> . Cell, 1998, 92, 217-227.	13.5	275
131	Odorant Receptor Localization to Olfactory Cilia Is Mediated by ODR-4, a Novel Membrane-Associated Protein. Cell, 1998, 93, 455-466.	13.5	230
132	Natural Variation in a Neuropeptide Y Receptor Homolog Modifies Social Behavior and Food Response in <i>C. elegans</i> . Cell, 1998, 94, 679-689.	13.5	737
133	SIGNAL TRANSDUCTION IN THE CAENORHABDITIS ELEGANS NERVOUS SYSTEM. Annual Review of Neuroscience, 1998, 21, 279-308.	5.0	136
134	Neurobiology of the <i>Caenorhabditis elegans</i> Genome. , 1998, 282, 2028-2033.		810
135	The <i>Caenorhabditis elegans</i> seven-transmembrane protein ODR-10 functions as an odorant receptor in mammalian cells. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 12162-12167.	3.3	105
136	Reprogramming Chemotaxis Responses: Sensory Neurons Define Olfactory Preferences in <i>C. elegans</i> . Cell, 1997, 91, 161-169.	13.5	404
137	Olfactory Receptors, Vomeronasal Receptors, and the Organization of Olfactory Information. Cell, 1997, 90, 585-587.	13.5	91
138	OSM-9, A Novel Protein with Structural Similarity to Channels, Is Required for Olfaction, Mechanosensation, and Olfactory Adaptation in <i>Caenorhabditis elegans</i> . Journal of Neuroscience, 1997, 17, 8259-8269.	1.7	574
139	A dynamin GTPase mutation causes a rapid and reversible temperature-inducible locomotion defect in <i>C. elegans</i> . Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 10438-10443.	3.3	119
140	odr-10 Encodes a Seven Transmembrane Domain Olfactory Receptor Required for Responses to the Odorant Diacetyl. Cell, 1996, 84, 899-909.	13.5	511
141	A Putative Cyclic Nucleotide-Gated Channel Is Required for Sensory Development and Function in <i>C. elegans</i> . Neuron, 1996, 17, 695-706.	3.8	421
142	Cell fate specification and differentiation in the nervous system of <i>Caenorhabditis elegans</i> . , 1996, 18, 73-80.		19
143	From the nose to the brain. Nature, 1996, 384, 512-513.	13.7	9
144	Chapter 10 Laser Killing of Cells in <i>Caenorhabditis elegans</i> . Methods in Cell Biology, 1995, 48, 225-250.	0.5	249

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145	Mechanosensory signalling in <i>C. elegans</i> mediated by the GLR-1 glutamate receptor. <i>Nature</i> , 1995, 378, 78-81.	13.7	322
146	Odorant-specific adaptation pathways generate olfactory plasticity in <i>C. elegans</i> . <i>Neuron</i> , 1995, 14, 803-812.	3.8	311
147	Divergent seven transmembrane receptors are candidate chemosensory receptors in <i>C. elegans</i> . <i>Cell</i> , 1995, 83, 207-218.	13.5	656
148	The <i>C. elegans</i> gene <i>odr-7</i> encodes an olfactory-specific member of the nuclear receptor superfamily. <i>Cell</i> , 1994, 79, 971-980.	13.5	195
149	Chronic intestinal inflammation: An unexpected outcome in cytokine or T cell receptor mutant mice. <i>Cell</i> , 1994, 78, 729-731.	13.5	24
150	Odorant-selective genes and neurons mediate olfaction in <i>C. elegans</i> . <i>Cell</i> , 1993, 74, 515-527.	13.5	1,081
151	Genetic and Cellular Analysis of Behavior in <i>C. Elegans</i> . <i>Annual Review of Neuroscience</i> , 1993, 16, 47-71.	5.0	147
152	The Cellular and Genetic Basis of Olfactory Responses in <i>Caenorhabditis Elegans</i> . <i>Novartis Foundation Symposium</i> , 1993, 179, 235-250.	1.2	7
153	cDNA sequencing: a report from the worm front. <i>Nature Genetics</i> , 1992, 1, 79-80.	9.4	3
154	Chemosensory neurons with overlapping functions direct chemotaxis to multiple chemicals in <i>C. elegans</i> . <i>Neuron</i> , 1991, 7, 729-742.	3.8	650
155	Death from natural and unnatural causes. <i>Current Biology</i> , 1991, 1, 388-390.	1.8	5
156	Control of larval development by chemosensory neurons in <i>Caenorhabditis elegans</i> . <i>Science</i> , 1991, 251, 1243-1246.	6.0	399
157	Multiple independent activations of the <i>neu</i> oncogene by a point mutation altering the transmembrane domain of p185. <i>Cell</i> , 1986, 45, 649-657.	13.5	1,034
158	The <i>neu</i> oncogene encodes an epidermal growth factor receptor-related protein. <i>Nature</i> , 1986, 319, 226-230.	13.7	1,090