Oliver Hobert

List of Publications by Citations

199 papers	15,124 citations	66 h-index	119 g-index
336 ext. papers	18,354 ext. citations	12.2 avg, IF	7.22 L-index

#	Paper	IF	Citations
199	Gene regulation by transcription factors and microRNAs. *Science*, **2008**, 319, 1785-6	33.3	692
198	A microRNA controlling left/right neuronal asymmetry in Caenorhabditis elegans. *Nature*, **2003**, 426, 845-9	50.4	634
197	PCR fusion-based approach to create reporter gene constructs for expression analysis in transgenic C. elegans. *BioTechniques*, **2002**, 32, 728-30	2.5	514
196	Ezh2 controls B cell development through histone H3 methylation and Igh rearrangement. *Nature Immunology*, **2003**, 4, 124-31	19.1	476
195	Functions of LIM-homeobox genes. *Trends in Genetics*, **2000**, 16, 75-83	8.5	392
194	Perfect seed pairing is not a generally reliable predictor for miRNA-target interactions. *Nature Structural and Molecular Biology*, **2006**, 13, 849-51	17.6	368
193	Starvation-induced transgenerational inheritance of small RNAs in C. elegans. *Cell*, **2014**, 158, 277-287	56.2	327
192	MicroRNAs act sequentially and asymmetrically to control chemosensory laterality in the nematode. *Nature*, **2004**, 430, 785-9	50.4	298
191	Functional mapping of neurons that control locomotory behavior in Caenorhabditis elegans. *Journal of Neurobiology*, **2003**, 56, 178-97		281
190	The molecular diversity of glycosaminoglycans shapes animal development. *Annual Review of Cell and Developmental Biology*, **2006**, 22, 375-407	12.6	276
189	Ultrastructural features of the adult hermaphrodite gonad of Caenorhabditis elegans: relations between the germ line and soma. *Developmental Biology*, **1999**, 212, 101-23	3.1	246
188	The taxonomy of developmental control in Caenorhabditis elegans. *Science*, **1998**, 282, 2033-41	33.3	243
187	Transgenerational inheritance of an acquired small RNA-based antiviral response in C. elegans. *Cell*, **2011**, 147, 1248-56	56.2	238
186	Whole-animal connectomes of both Caenorhabditis elegans sexes. *Nature*, **2019**, 571, 63-71	50.4	234
185	MicroRNAs acting in a double-negative feedback loop to control a neuronal cell fate decision. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 12449-54	11.5	229
184	Regulation of interneuron function in the C. elegans thermoregulatory pathway by the ttx-3 LIM homeobox gene. *Neuron*, **1997**, 19, 345-57	13.9	219
183	A regulatory cascade of three homeobox genes, ceh-10, ttx-3 and ceh-23, controls cell fate specification of a defined interneuron class in C. elegans. *Development (Cambridge)*, **2001**, 128, 1951-1969	6.6	213

182	Differential sulfations and epimerization define heparan sulfate specificity in nervous system development. *Neuron*, **2004**, 41, 723-36	13.9	212
181	Regulatory logic of neuronal diversity: terminal selector genes and selector motifs. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 20067-71	11.5	186
180	Genomic cis-regulatory architecture and trans-acting regulators of a single interneuron-specific gene battery in C. elegans. *Developmental Cell*, **2004**, 6, 757-70	10.2	185
179	Left-right asymmetry in the nervous system: the Caenorhabditis elegans model. *Nature Reviews Neuroscience*, **2002**, 3, 629-40	13.5	183
178	Caenorhabditis elegans mutant allele identification by whole-genome sequencing. *Nature Methods*, **2008**, 5, 865-7	21.6	182
177	Gene regulatory logic of dopamine neuron differentiation. *Nature*, **2009**, 458, 885-9	50.4	180
176	LIM homeobox gene-dependent expression of biogenic amine receptors in restricted regions of the C. elegans nervous system. *Developmental Biology*, **2003**, 263, 81-102	3.1	179
175	New insights into the diversity and function of neuronal immunoglobulin superfamily molecules. *Annual Review of Neuroscience*, **2003**, 26, 207-38	17	178
174	Modular control of glutamatergic neuronal identity in C. elegans by distinct homeodomain proteins. *Cell*, **2013**, 155, 659-73	56.2	177
173	CloudMap: a cloud-based pipeline for analysis of mutant genome sequences. *Genetics*, **2012**, 192, 1249-69	4	175
172	A conserved LIM protein that affects muscular adherens junction integrity and mechanosensory function in Caenorhabditis elegans. *Journal of Cell Biology*, **1999**, 144, 45-57	7.3	174
171	Direct conversion of C. elegans germ cells into specific neuron types. *Science*, **2011**, 331, 304-8	33.3	173
170	Common logic of transcription factor and microRNA action. *Trends in Biochemical Sciences*, **2004**, 29, 462-8	10.3	171
169	A cellular and regulatory map of the cholinergic nervous system of C. elegans. *ELife*, **2015**, 4,	8.9	157
168	C. elegans mutant identification with a one-step whole-genome-sequencing and SNP mapping strategy. *PLoS ONE*, **2010**, 5, e15435	3.7	153
167	Regulation of terminal differentiation programs in the nervous system. *Annual Review of Cell and Developmental Biology*, **2011**, 27, 681-96	12.6	149
166	Molecular architecture of a miRNA-regulated 3RUTR. *Rna*, **2008**, 14, 1297-317	5.8	140
165	Heparan sulfate proteoglycan-dependent induction of axon branching and axon misrouting by the Kallmann syndrome gene kal-1. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 6346-51	11.5	139

164	A toolkit and robust pipeline for the generation of fosmid-based reporter genes in C. elegans. *PLoS ONE*, **2009**, 4, e4625	3.7	136
163	A transcriptional regulatory cascade that controls left/right asymmetry in chemosensory neurons of C. elegans. *Genes and Development*, **2003**, 17, 2123-37	12.6	135
162	The neuronal genome of Caenorhabditis elegans. *WormBook*, **2013**, 1-106		132
161	A C. elegans CLIC-like protein required for intracellular tube formation and maintenance. *Science*, **2003**, 302, 2134-7	33.3	130
160	The molecular signature and cis-regulatory architecture of a C. elegans gustatory neuron. *Genes and Development*, **2007**, 21, 1653-74	12.6	125
159	Behavioral plasticity in C. elegans: paradigms, circuits, genes. *Journal of Neurobiology*, **2003**, 54, 203-23		124
158	Maintenance of postmitotic neuronal cell identity. *Nature Neuroscience*, **2014**, 17, 899-907	25.5	117
157	Coordinated regulation of cholinergic motor neuron traits through a conserved terminal selector gene. *Nature Neuroscience*, **2011**, 15, 205-14	25.5	114
156	Terminal Selectors of Neuronal Identity. *Current Topics in Developmental Biology*, **2016**, 116, 455-75	5.3	112
155	Control of neural development and function in a thermoregulatory network by the LIM homeobox gene lin-11. *Journal of Neuroscience*, **1998**, 18, 2084-96	6.6	108
154	A conserved postsynaptic transmembrane protein affecting neuromuscular signaling in Caenorhabditis elegans. *Journal of Neuroscience*, **2004**, 24, 2191-201	6.6	100
153	Immunoglobulin-domain proteins required for maintenance of ventral nerve cord organization. *Science*, **2002**, 295, 686-90	33.3	98
152	A cellular and regulatory map of the GABAergic nervous system of. *ELife*, **2016**, 5,	8.9	89
151	Removal of Polycomb repressive complex 2 makes C. elegans germ cells susceptible to direct conversion into specific somatic cell types. *Cell Reports*, **2012**, 2, 1178-86	10.6	87
150	The molecular and gene regulatory signature of a neuron. *Trends in Neurosciences*, **2010**, 33, 435-45	13.3	86
149	Searching for neuronal left/right asymmetry: genomewide analysis of nematode receptor-type guanylyl cyclases. *Genetics*, **2006**, 173, 131-49	4	86
148	Regulatory Logic of Pan-Neuronal Gene Expression in C. elegans. *Neuron*, **2015**, 87, 733-50	13.9	84
147	Hypoxia activates a latent circuit for processing gustatory information in C. elegans. *Nature Neuroscience*, **2010**, 13, 610-4	25.5	83

146	Reporter gene fusions. *WormBook*, **2006**, 1-23		81
145	Lateralized gustatory behavior of C. elegans is controlled by specific receptor-type guanylyl cyclases. *Current Biology*, **2009**, 19, 996-1004	6.3	80
144	Differential functions of the C. elegans FGF receptor in axon outgrowth and maintenance of axon position. *Neuron*, **2004**, 42, 367-74	13.9	78
143	MAQGene: software to facilitate C. elegans mutant genome sequence analysis. *Nature Methods*, **2009**, 6, 549	21.6	77
142	An interneuronal chemoreceptor required for olfactory imprinting in C. elegans. *Science*, **2005**, 309, 787-90	33.3	76
141	Oxygen levels affect axon guidance and neuronal migration in Caenorhabditis elegans. *Nature Neuroscience*, **2008**, 11, 894-900	25.5	74
140	Early embryonic programming of neuronal left/right asymmetry in C. elegans. *Current Biology*, **2006** , 16, 2279-92	6.3	74
139	Two neuronal, nuclear-localized RNA binding proteins involved in synaptic transmission. *Current Biology*, **2003**, 13, 1317-23	6.3	73
138	Analysis of multiple ethyl methanesulfonate-mutagenized Caenorhabditis elegans strains by whole-genome sequencing. *Genetics*, **2010**, 185, 417-30	4	72
137	Plasticity of the Electrical Connectome of C.elegans. *Cell*, **2019**, 176, 1174-1189.e16	56.2	70
136	Neurogenesis in the nematode Caenorhabditis elegans. *WormBook*, **2010**, 1-24		69
135	Sex-specific pruning of neuronal synapses in Caenorhabditis elegans. *Nature*, **2016**, 533, 206-11	50.4	68
134	The LIM and POU homeobox genes ttx-3 and unc-86 act as terminal selectors in distinct cholinergic and serotonergic neuron types. *Development (Cambridge)*, **2014**, 141, 422-35	6.6	66
133	Caenorhabditis elegans ABL-1 antagonizes p53-mediated germline apoptosis after ionizing irradiation. *Nature Genetics*, **2004**, 36, 906-12	36.3	66
132	Linking asymmetric cell division to the terminal differentiation program of postmitotic neurons in C. elegans. *Developmental Cell*, **2009**, 16, 563-75	10.2	65
131	miRNAs play a tune. *Cell*, **2007**, 131, 22-4	56.2	64
130	Chloride intracellular channel 4 is involved in endothelial proliferation and morphogenesis in vitro. *Angiogenesis*, **2009**, 12, 209-20	10.6	63
129	Automated screening for mutants affecting dopaminergic-neuron specification in C. elegans. *Nature Methods*, **2008**, 5, 869-72	21.6	62

128	Isolation and developmental expression analysis of Enx-1, a novel mouse Polycomb group gene. *Mechanisms of Development*, **1996**, 55, 171-84	1.7	62
127	The lin-11 LIM homeobox gene specifies olfactory and chemosensory neuron fates in C. elegans. *Development (Cambridge)*, **2001**, 128, 3269-3281	6.6	62
126	Neuronal identity control by terminal selectors in worms, flies, and chordates. *Current Opinion in Neurobiology*, **2019**, 56, 97-105	7.6	59
125	Embryonic priming of a miRNA locus predetermines postmitotic neuronal left/right asymmetry in C. elegans. *Cell*, **2012**, 151, 1229-42	56.2	58
124	Revisiting Neuronal Cell Type Classification in Caenorhabditis elegans. *Current Biology*, **2016**, 26, R1197-R1203	8.3	55
123	A combinatorial regulatory signature controls terminal differentiation of the dopaminergic nervous system in C. elegans. *Genes and Development*, **2013**, 27, 1391-405	12.6	54
122	Architecture of a microRNA-controlled gene regulatory network that diversifies neuronal cell fates. *Cold Spring Harbor Symposia on Quantitative Biology*, **2006**, 71, 181-8	3.9	54
121	Specification of the nervous system. *WormBook*, **2005**, 1-19		54
120	Extracellular sugar modifications provide instructive and cell-specific information for axon-guidance choices. *Current Biology*, **2008**, 18, 1978-85	6.3	53
119	Genetic screens for Caenorhabditis elegans mutants defective in left/right asymmetric neuronal fate specification. *Genetics*, **2007**, 176, 2109-30	4	52
118	Cis-regulatory mechanisms of left/right asymmetric neuron-subtype specification in C. elegans. *Development (Cambridge)*, **2009**, 136, 147-60	6.6	51
117	Transcriptional control of the terminal fate of monoaminergic neurons. *Annual Review of Neuroscience*, **2011**, 34, 153-84	17	50
116	Temporal and spatial regulation of microRNA activity with photoactivatable cantimirs. *ACS Chemical Biology*, **2011**, 6, 1332-8	4.9	49
115	Coordinated control of terminal differentiation and restriction of cellular plasticity. *ELife*, **2017**, 6,	8.9	48
114	Development of left/right asymmetry in the Caenorhabditis elegans nervous system: from zygote to postmitotic neuron. *Genesis*, **2014**, 52, 528-43	1.9	47
113	An unusual Zn-finger/FH2 domain protein controls a left/right asymmetric neuronal fate decision in C. elegans. *Development (Cambridge)*, **2006**, 133, 3317-28	6.6	47
112	A map of terminal regulators of neuronal identity in Caenorhabditis elegans. *Wiley Interdisciplinary Reviews: Developmental Biology*, **2016**, 5, 474-98	5.9	46
111	Functional dissection of the C. elegans cell adhesion molecule SAX-7, a homologue of human L1. *Molecular and Cellular Neurosciences*, **2008**, 37, 56-68	4.8	45

110	An atlas of Caenorhabditis elegans chemoreceptor expression. *PLoS Biology*, **2018**, 16, e2004218	9.7	44
109	PHYTOCHROME C is an essential light receptor for photoperiodic flowering in the temperate grass, Brachypodium distachyon. *Genetics*, **2014**, 198, 397-408	4	44
108	Characterization of Caenorhabditis elegans homologs of the Down syndrome candidate gene DYRK1A. *Genetics*, **2003**, 163, 571-80	4	44
107	Neurexin controls plasticity of a mature, sexually dimorphic neuron. *Nature*, **2018**, 553, 165-170	50.4	42
106	Molecular topography of an entire nervous system. *Cell*, **2021**, 184, 4329-4347.e23	56.2	42
105	Diversification of C.elegans Motor Neuron Identity via Selective Effector Gene Repression. *Neuron*, **2017**, 93, 80-98	13.9	41
104	Vector-free DNA constructs improve transgene expression in C. elegans. *Nature Methods*, **2008**, 5, 3	21.6	41
103	Sexually Dimorphic Differentiation of a C.elegans Hub Neuron Is Cell Autonomously Controlled by a Conserved Transcription Factor. *Current Biology*, **2017**, 27, 199-209	6.3	40
102	Transcriptional coordination of synaptogenesis and neurotransmitter signaling. *Current Biology*, **2015**, 25, 1282-95	6.3	40
101	The impact of whole genome sequencing on model system genetics: get ready for the ride. *Genetics* , **2010**, 184, 317-9	4	40
100	Mapping functional domains of chloride intracellular channel (CLIC) proteins in vivo. *Journal of Molecular Biology*, **2006**, 359, 1316-33	6.5	40
99	Spatiotemporal control of a novel synaptic organizer molecule. *Nature*, **2015**, 523, 83-7	50.4	38
98	Comparing platforms for C. elegans mutant identification using high-throughput whole-genome sequencing. *PLoS ONE*, **2008**, 3, e4012	3.7	38
97	NeuroPAL: A Multicolor Atlas for Whole-Brain Neuronal Identification in C.elegans. *Cell*, **2021**, 184, 272-288.e11	56.2	38
96	Diverse functions of microRNAs in nervous system development. *Current Topics in Developmental Biology*, **2012**, 99, 115-43	5.3	37
95	A novel Eph receptor-interacting IgSF protein provides C. elegans motoneurons with midline guidepost function. *Current Biology*, **2006**, 16, 1871-83	6.3	37
94	A novel C. elegans zinc finger transcription factor, lsy-2, required for the cell type-specific expression of the lsy-6 microRNA. *Development (Cambridge)*, **2005**, 132, 5451-60	6.6	37
93	Unique homeobox codes delineate all the neuron classes of C.elegans. *Nature*, **2020**, 584, 595-601	50.4	37

92	BRN3-type POU Homeobox Genes Maintain the Identity of Mature Postmitotic Neurons in Nematodes and Mice. *Current Biology*, **2018**, 28, 2813-2823.e2	6.3	35
91	The neurexin superfamily of Caenorhabditis elegans. *Gene Expression Patterns*, **2011**, 11, 144-50	1.5	34
90	The C. elegans Tailless/TLX transcription factor nhr-67 controls neuronal identity and left/right asymmetric fate diversification. *Development (Cambridge)*, **2009**, 136, 2933-44	6.6	34
89	A Genome-Wide RNAi Screen for Factors Involved in Neuronal Specification in Caenorhabditis elegans. *PLoS Genetics*, **2011**, 7, e1002109	6	33
88	Lineage programming: navigating through transient regulatory states via binary decisions. *Current Opinion in Genetics and Development*, **2010**, 20, 362-8	4.9	33
87	Atypical Transcriptional Activation by TCF via a Zic Transcription Factor in C.elegans Neuronal Precursors. *Developmental Cell*, **2015**, 33, 737-45	10.2	32
86	The CeNGEN Project: The Complete Gene Expression Map of an Entire Nervous System. *Neuron*, **2018**, 99, 430-433	13.9	30
85	A Neurotransmitter Atlas of the Male Nervous System Reveals Sexually Dimorphic Neurotransmitter Usage. *Genetics*, **2017**, 206, 1251-1269	4	29
84	CisOrtho: a program pipeline for genome-wide identification of transcription factor target genes using phylogenetic footprinting. *BMC Bioinformatics*, **2004**, 5, 27	3.6	29
83	Expression profiling of the mature C. elegans nervous system by single-cell RNA-Sequencing		29
82	Defining specificity determinants of cGMP mediated gustatory sensory transduction in Caenorhabditis elegans. *Genetics*, **2013**, 194, 885-901	4	28
81	Evolution of neuronal anatomy and circuitry in two highly divergent nematode species. *ELife*, **2019**, 8,	8.9	28
80	Looking beyond development: maintaining nervous system architecture. *Current Topics in Developmental Biology*, **2009**, 87, 175-94	5.3	27
79	Cis-regulatory mutations in the Caenorhabditis elegans homeobox gene locus cog-1 affect neuronal development. *Genetics*, **2009**, 181, 1679-86	4	27
78	Development and maintenance of neuronal architecture at the ventral midline of C. elegans. *Current Opinion in Neurobiology*, **2003**, 13, 70-8	7.6	27
77	The SWI/SNF chromatin remodeling complex selectively affects multiple aspects of serotonergic neuron differentiation. *Genetics*, **2013**, 194, 189-98	4	26
76	The Groucho ortholog UNC-37 interacts with the short Groucho-like protein LSY-22 to control developmental decisions in C. elegans. *Development (Cambridge)*, **2010**, 137, 1799-805	6.6	26
75	DIG-1, a novel giant protein, non-autonomously mediates maintenance of nervous system architecture. *Development (Cambridge)*, **2006**, 133, 3329-40	6.6	26

74	A competition mechanism for a homeotic neuron identity transformation in C. elegans. *Developmental Cell*, **2015**, 34, 206-19	10.2	25
73	Expansion microscopy of. *ELife*, **2020**, 9,	8.9	25
72	Postmitotic diversification of olfactory neuron types is mediated by differential activities of the HMG-box transcription factor SOX-2. *EMBO Journal*, **2015**, 34, 2574-89	13	24
71	Identification of spatial and temporal cues that regulate postembryonic expression of axon maintenance factors in the C. elegans ventral nerve cord. *Development (Cambridge)*, **2003**, 130, 599-610	6.6	24
70	From genes to function: the C. elegans genetic toolbox. *Wiley Interdisciplinary Reviews: Developmental Biology*, **2012**, 1, 114-37	5.9	23
69	Timing mechanism of sexually dimorphic nervous system differentiation. *ELife*, **2019**, 8,	8.9	23
68	Gene regulation: enhancers stepping out of the shadow. *Current Biology*, **2010**, 20, R697-9	6.3	22
67	Sexually Dimorphic unc-6/Netrin Expression Controls Sex-Specific Maintenance of Synaptic Connectivity. *Current Biology*, **2018**, 28, 623-629.e3	6.3	21
66	Homeotic Transformations of Neuronal Cell Identities. *Trends in Neurosciences*, **2015**, 38, 751-762	13.3	21
65	Notch-dependent induction of left/right asymmetry in C. elegans interneurons and motoneurons. *Current Biology*, **2011**, 21, 1225-31	6.3	21
64	A genetic screen for neurite outgrowth mutants in Caenorhabditis elegans reveals a new function for the F-box ubiquitin ligase component LIN-23. *Genetics*, **2004**, 166, 1253-67	4	21
63	Unconventional function of an Achaete-Scute homolog as a terminal selector of nociceptive neuron identity. *PLoS Biology*, **2018**, 16, e2004979	9.7	20
62	Progressive degeneration of dopaminergic neurons through TRP channel-induced cell death. *Journal of Neuroscience*, **2014**, 34, 5738-46	6.6	20
61	The small, secreted immunoglobulin protein ZIG-3 maintains axon position in Caenorhabditis elegans. *Genetics*, **2009**, 183, 917-27	4	20
60	C. elegans SoxB genes are dispensable for embryonic neurogenesis but required for terminal differentiation of specific neuron types. *Development (Cambridge)*, **2015**, 142, 2464-77	6.6	19
59	Two distinct types of neuronal asymmetries are controlled by the Caenorhabditis elegans zinc finger transcription factor die-1. *Genes and Development*, **2014**, 28, 34-43	12.6	19
58	Silencing of Repetitive DNA Is Controlled by a Member of an Unusual Gene Family. *Genetics*, **2017**, 207, 529-545	4	19
57	Maintenance of neuronal laterality in Caenorhabditis elegans through MYST histone acetyltransferase complex components LSY-12, LSY-13 and LIN-49. *Genetics*, **2010**, 186, 1497-502	4	19

56	The secreted immunoglobulin domain proteins ZIG-5 and ZIG-8 cooperate with L1CAM/SAX-7 to maintain nervous system integrity. *PLoS Genetics*, **2012**, 8, e1002819	6	18
55	Past experience shapes sexually dimorphic neuronal wiring through monoaminergic signalling. *Nature*, **2018**, 561, 117-121	50.4	17
54	Pax genes in Caenorhabditis elegans: a new twist. *Trends in Genetics*, **1999**, 15, 214-6	8.5	17
53	Neuron-type specific regulation of a 3′UTR through redundant and combinatorially acting cis-regulatory elements. *Rna*, **2010**, 16, 349-63	5.8	16
52	Developmental control of lateralized neuron size in the nematode Caenorhabditis elegans. *Neural Development*, **2010**, 5, 33	3.9	16
51	An intersectional gene regulatory strategy defines subclass diversity of motor neurons. *ELife*, **2017**, 6,	8.9	15
50	NeuroPAL: A Neuronal Polychromatic Atlas of Landmarks for Whole-Brain Imaging in C. elegans		15
49	Transcription factor autoregulation is required for acquisition and maintenance of neuronal identity. *Development (Cambridge)*, **2019**, 146,	6.6	14
48	Maintaining a memory by transcriptional autoregulation. *Current Biology*, **2011**, 21, R146-7	6.3	13
47	TargetOrtho: a phylogenetic footprinting tool to identify transcription factor targets. *Genetics*, **2014**, 197, 61-76	4	10
46	Questions over the scientific basis of epigenome project. *Nature*, **2010**, 464, 487	50.4	9
45	A left/right asymmetric neuronal differentiation program is controlled by the Caenorhabditis elegans lsy-27 zinc-finger transcription factor. *Genetics*, **2011**, 188, 753-9	4	9
44	Developmental regulation of whole cell capacitance and membrane current in identified interneurons in C. elegans. *Journal of Neurophysiology*, **2006**, 95, 3665-73	3.2	9
43	Uses of GFP in Caenorhabditis elegans. *Methods of Biochemical Analysis*, **2006**, 47, 203-26		9
42	Morphological Diversity of C. elegans Sensory Cilia Instructed by the Differential Expression of an Immunoglobulin Domain Protein. *Current Biology*, **2017**, 27, 1782-1790.e5	6.3	9
41	Restriction of Cellular Plasticity of Differentiated Cells Mediated by Chromatin Modifiers, Transcription Factors and Protein Kinases. *G3: Genes, Genomes, Genetics*, **2019**, 9, 2287-2302	3.2	8
40	The connectome of the Caenorhabditis elegans pharynx. *Journal of Comparative Neurology*, **2020**, 528, 2767-2784	3.4	8
39	Brn3/POU-IV-type POU homeobox genes-Paradigmatic regulators of neuronal identity across phylogeny. *Wiley Interdisciplinary Reviews: Developmental Biology*, **2020**, 9, e374	5.9	8

38	Temporal, Spatial, Sexual and Environmental Regulation of the Master Regulator of Sexual Differentiation in C.elegans. *Current Biology*, **2020**, 30, 3604-3616.e3	6.3	8
37	Microbeam irradiation of C. elegans nematode in microfluidic channels. *Radiation and Environmental Biophysics*, **2013**, 52, 531-7	2	7
36	Modular Organization of -regulatory Control Information of Neurotransmitter Pathway Genes in. *Genetics*, **2020**, 215, 665-681	4	7
35	The Prop1-like homeobox gene specifies the identity of synaptically connected neurons. *ELife*, **2021**, 10,	8.9	7
34	SLC17A6/7/8 Vesicular Glutamate Transporter Homologs in Nematodes. *Genetics*, **2020**, 214, 163-178	4	6
33	The immunoglobulin superfamily in Caenorhabditis elegans and Drosophila melanogaster. *Development (Cambridge)*, **2004**, 131, 2237-8; author reply 2238-40	6.6	5
32	DAF-16/FoxO and DAF-12/VDR control cellular plasticity both cell-autonomously and via interorgan signaling. *PLoS Biology*, **2021**, 19, e3001204	9.7	5
31	Homeobox genes and the specification of neuronal identity. *Nature Reviews Neuroscience*, **2021**, 22, 627-636	33	5
30	Small Immunoglobulin Domain Proteins at Synapses and the Maintenance of Neuronal Features. *Neuron*, **2016**, 89, 239-41	13.9	4
29	Introduction: behavioral genetics--the third century. *Journal of Neurobiology*, **2003**, 54, 1-3		4
28	A panel of fluorophore-tagged alleles. *MicroPublication Biology*, **2020**, 2020,	0.8	4
27	Ubiquitin-dependent regulation of a conserved DMRT protein controls sexually dimorphic synaptic connectivity and behavior. *ELife*, **2020**, 9,	8.9	4
26	In silico analysis of the transcriptional regulatory logic of neuronal identity specification throughout the nervous system. *ELife*, **2021**, 10,	8.9	4
25	Demixing Calcium Imaging Data in C. elegans via Deformable Non-negative Matrix Factorization. *Lecture Notes in Computer Science*, **2020**, 14-24	0.9	3
24	Molecular topography of an entire nervous system		3
23	Nervous System Development: Flies and Worms Converging on Neuron Identity Control. *Current Biology*, **2018**, 28, R1154-R1157	6.3	3
22	A Zinc Finger Transcription Factor, , Required for the Specification of a Dopamine Neuron-Producing Lineage. *G3: Genes, Genomes, Genetics*, **2018**, 8, 17-26	3.2	2
21	MicroRNAs: all gone and then what?. *Current Biology*, **2005**, 15, R387-9	6.3	2

20	An isoform-specific allele of the locus. *MicroPublication Biology*, **2019**, 2019,	0.8	2
19	An antibody staining protocol variation for nematodes that adds heat-induced antigen retrieval (HIAR). *MicroPublication Biology*, **2019**, 2019,	0.8	2
18	Unlike Drosophila elav, the elav orthologue is not panneuronally expressed. *MicroPublication Biology*, **2019**, 2019,	0.8	2
17	Piecemeal regulation of convergent neuronal lineages by bHLH transcription factors in Caenorhabditis elegans. *Development (Cambridge)*, **2021**, 148,	6.6	2
16	Olfactory Imprinting: A WormR Memory of Things Past. *Current Biology*, **2017**, 27, R1108-R1110	6.3	1
15	Neuronal identity specification in the nematode Caenorhabditis elegans **2020**, 599-616		1
14	A novel null allele of gene. *MicroPublication Biology*, **2018**, 2018,	0.8	1
13	The bHLH-PAS gene is expressed in the AVH, not AVJ interneurons. *MicroPublication Biology*, **2021**, 2021,	0.8	1
12	Temporal transitions in the post-mitotic nervous system of Caenorhabditis elegans. *Nature*, **2021**, 600, 93-99	50.4	1
11	Molecular Mechanisms of Sexually Dimorphic Nervous System Patterning in Flies and Worms. *Annual Review of Cell and Developmental Biology*, **2021**, 37, 519-547	12.6	1
10	Statistical Atlas of C. elegans Neurons. *Lecture Notes in Computer Science*, **2020**, 119-129	0.9	1
9	Visualizing the organization and differentiation of the male-specific nervous system ofC. elegans		1
8	Nematode nuclear receptors as integrators of sensory information. *Current Biology*, **2021**, 31, 4361-4366e2	6.3	1
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