Leon Avery

List of Publications by Year
in descending order

59 papers	6,470 citations	81900 39 h-index	138484 58 g-index
61 all docs	61 docs citations	61 times ranked	7083 citing authors

#	Article	IF	Citations
1	A Keller-Segel model for C elegans L1 aggregation. PLoS Computational Biology, 2021, 17, e1009231.	3.2	0
2	The FMRFamide Neuropeptide FLP-20 Acts as a Systemic Signal for Starvation Responses in Caenorhabditis elegans. Molecules and Cells, 2021, 44, 529-537.	2.6	4
3	Modelling the ballistic-to-diffusive transition in nematode motility reveals variation in exploratory behaviour across species. Journal of the Royal Society Interface, 2019, 16, 20190174.	3.4	7
4	Starvation-induced collective behavior in C. elegans. Scientific Reports, 2015, 5, 10647.	3.3	40
5	An opioid-like system regulating feeding behavior in C. elegans. ELife, 2015, 4, .	6.0	42
6	Regulation of Synaptic Transmission at theCaenorhabditis elegansM4 Neuromuscular Junction by an Antagonistic Relationship Between Two Calcium Channels. G3: Genes, Genomes, Genetics, 2014, 4, 2535-2543.	1.8	7
7	A Model of the Effect of Uncertainty on the C elegans L2/L2d Decision. PLoS ONE, 2014, 9, e100580.	2.5	13
8	NSBP-1 mediates the effects of cholesterol on insulin/IGF-1 signaling in Caenorhabditis elegans. Cellular and Molecular Life Sciences, 2013, 70, 1623-1636.	5.4	13
9	Succinylated Octopamine Ascarosides and a New Pathway of Biogenic Amine Metabolism in Caenorhabditis elegans. Journal of Biological Chemistry, 2013, 288, 18778-18783.	3.4	71
10	The Jaw of the Worm: GTPase-activating Protein EAT-17 Regulates Grinder Formation in Caenorhabditis elegans. Genetics, 2013, 195, 115-125.	2.9	12
11	The Geometry of Locomotive Behavioral States in C. elegans. PLoS ONE, 2013, 8, e59865.	2.5	79
12	Recognition of familiar food activates feeding via an endocrine serotonin signal in Caenorhabditis elegans. ELife, 2013, 2, e00329.	6.0	70
13	Serotonin Activates Overall Feeding by Activating Two Separate Neural Pathways inCaenorhabditis elegans. Journal of Neuroscience, 2012, 32, 1920-1931.	3.6	96
14	Laser Microsurgery in Caenorhabditis elegans. Methods in Cell Biology, 2012, 107, 177-206.	1.1	105
15	WormBook. WormBook, 2012, , 1-23.	5.3	123
16	Hox and a Newly Identified E2F Co-repress Cell Death in Caenorhabditis elegans. Genetics, 2011, 188, 897-905.	2.9	21
17	Caenorhabditis elegansbehavioral genetics: where are the knobs?. BMC Biology, 2010, 8, 69.	3.8	12
18	Deathâ€associated protein kinase (DAPK) and signal transduction: fineâ€tuning of autophagy in Caenorhabditisâ€ƒelegans homeostasis. FEBS Journal, 2010, 277, 66-73.	4.7	20

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19	Systemic regulation of autophagy inCaenorhabditis elegans. Autophagy, 2009, 5, 565-566.	9.1	15
20	Two size-selective mechanisms specifically trap bacteria-sized food particles in Caenorhabditis elegans. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20093-20096.	7.1	101
21	Systemic regulation of starvation response in Caenorhabditis elegans. Genes and Development, 2009, 23, 12-17.	5.9	60
22	Latrophilin Signaling Links Anterior-Posterior Tissue Polarity and Oriented Cell Divisions in the C.Âelegans Embryo. Developmental Cell, 2009, 17, 494-504.	7.0	142
23	Insulin, cGMP, and TGF-Î² Signals Regulate Food Intake and Quiescence in C. elegans: A Model for Satiety. Cell Metabolism, 2008, 7, 249-257.	16.2	249
24	To be or not to be, the level of autophagy is the question: Dual roles of autophagy in the survival response to starvation. Autophagy, 2008, 4, 82-84.	9.1	101
25	The EGL-4 PKG Acts With KIN-29 Salt-Inducible Kinase and Protein Kinase A to Regulate Chemoreceptor Gene Expression and Sensory Behaviors in Caenorhabditis elegans. Genetics, 2008, 180, 1475-1491.	2.9	47
26	Dual roles of autophagy in the survival of Caenorhabditis elegans during starvation. Genes and Development, 2007, 21, 2161-2171.	5.9	245
27	Tripeptidyl peptidase II promotes fat formation in a conserved fashion. EMBO Reports, 2007, 8, 1183-1189.	4.5	32
28	Starvation activates MAP kinase through the muscarinic acetylcholine pathway in Caenorhabditis elegans pharynx. Cell Metabolism, 2006, 3, 237-245.	16.2	85
29	Evolution of pharyngeal behaviors and neuronal functions in free-living soil nematodes. Journal of Experimental Biology, 2006, 209, 1859-1873.	1.7	81
30	Dietary choice behavior in Caenorhabditis elegans. Journal of Experimental Biology, 2006, 209, 89-102.	1.7	373
31	The C. elegans T-type calcium channel CCA-1 boosts neuromuscular transmission. Journal of Experimental Biology, 2005, 208, 2191-2203.	1.7	68
32	CCA-1, EGL-19 and EXP-2 currents shape action potentials in the Caenorhabditis elegans pharynx. Journal of Experimental Biology, 2005, 208, 2177-2190.	1.7	86
33	eat-2 and eat-18 Are Required for Nicotinic Neurotransmission in the Caenorhabditis elegans Pharynx. Genetics, 2004, 166, 161-169.	2.9	143
34	The GAR-3 Muscarinic Receptor Cooperates With Calcium Signals to Regulate Muscle Contraction in the Caenorhabditis elegans Pharynx. Genetics, 2004, 167, 633-643.	2.9	62
35	LIM homeobox gene-dependent expression of biogenic amine receptors in restricted regions of the C. elegans nervous system. Developmental Biology, 2003, 263, 81-102.	2.0	215
36	C. elegans. Developmental Cell, 2003, 4, 131-142.	7.0	269

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37	Food transport in theC. eleganspharynx. Journal of Experimental Biology, 2003, 206, 2441-2457.	1.7	228
38	Serotonin regulates repolarization of theC. elegansphar yngeal muscle. Journal of Experimental Biology, 2003, 206, 223-231.	1.7	111
39	Mechanosensory Inputs Influence Caenorhabditis elegans Pharyngeal Activity via Ivermectin Sensitivity Genes. Genetics, 2003, 164, 153-162.	2.9	54
40	Social feeding in Caenorhabditis elegans is induced by neurons that detect aversive stimuli. Nature, 2002, 419, 899-903.	27.8	229
41	Isolation and Characterization of pmk-(1â€“3): Three p38 Homologs in Caenorhabditis elegans. Molecular Cell Biology Research Communications: MCBRC: Part B of Biochemical and Biophysical Research Communications, 2001, 4, 337-344.	1.6	54
42	kin-18, a C. elegans protein kinase involved in feeding. Gene, 2001, 279, 137-147.	2.2	12
43	eat-11 encodes GPB-2, a Gî²5 ortholog that interacts with Goî± and Gqî± to regulate C. elegans behavior. Current Biology, 2001, 11, 288-293.	3.9	69
44	A Caenorhabditis elegans MAP kinase kinase, MEK-1, is involved in stress responses. EMBO Journal, 2000, 19, 5148-5156.	7.8	87
45	Ultrafast Inactivation Causes Inward Rectification in a Voltage-Gated K⁺Channel fromCaenorhabditis elegans. Journal of Neuroscience, 2000, 20, 511-520.	3.6	15
46	EAT-4, a Homolog of a Mammalian Sodium-Dependent Inorganic Phosphate Cotransporter, Is Necessary for Glutamatergic Neurotransmission inCaenorhabditis elegans. Journal of Neuroscience, 1999, 19, 159-167.	3.6	328
47	Policing rogue genes. Nature, 1999, 402, 128-129.	27.8	14
48	A Mutation in the C. elegans EXP-2 Potassium Channel That Alters Feeding Behavior. Science, 1999, 286, 2501-2504.	12.6	58
49	Active Currents Regulate Sensitivity and Dynamic Range in C. elegans Neurons. Neuron, 1998, 20, 763-772.	8.1	340
50	avr-15 encodes a chloride channel subunit that mediates inhibitory glutamatergic neurotransmission and ivermectin sensitivity in Caenorhabditis elegans. EMBO Journal, 1997, 16, 5867-5879.	7.8	313
51	Mutations in a C. elegans Gqî± Gene Disrupt Movement, Egg Laying, and Viability. Neuron, 1996, 16, 999-1009.	8.1	187
52	Chapter 10 Laser Killing of Cells in Caenorhabditis elegans. Methods in Cell Biology, 1995, 48, 225-250.	1.1	249
53	Electrical activity and behavior in the pharynx of caenorhabditis elegans. Neuron, 1994, 12, 483-495.	8.1	210
54	Pharyngeal pumping continues after laser killing of the pharyngeal nervous system of C. elegans. Neuron, 1989, 3, 473-485.	8.1	341

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55	A cell that dies during wild-type C. elegans development can function as a neuron in a ced-3 mutant. Cell, 1987, 51, 1071-1078.	28.9	281
56	In situ transposon replacement and isolation of a spontaneous tandem genetic duplication. Molecular Genetics and Genomics, 1983, 191, 99-109.	2.4	134
57	Construction of tandem genetic duplications with defined endpoints in Myxococcus xanthus. Molecular Genetics and Genomics, 1983, 191, 110-117.	2.4	20
58	RECOMBINATION IN THE VICINITY OF INSERTIONS OF TRANSPOSON Tn5 IN MYXOCOCCUS XANTHUS. Genetics, 1983, 105, 281-291.	2.9	13
59	A numerical method for finding the concentrations of chemicals in equilibrium. Journal of Chemical Physics, 1982, 76, 3242-3248.	3.0	14