Roger Dj Pocock

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5036285/publications.pdf

Version: 2024-02-01

58 papers	1,938 citations	331670 21 h-index	276875 41 g-index
71 all docs	71 docs citations	71 times ranked	2790 citing authors

#	Article	IF	Citations
1	Brain Energy and Oxygen Metabolism: Emerging Role in Normal Function and Disease. Frontiers in Molecular Neuroscience, 2018, 11, 216.	2.9	237
2	DVC1 (C1orf124) is a DNA damageâ€“targeting p97 adaptor that promotes ubiquitin-dependent responses to replication blocks. Nature Structural and Molecular Biology, 2012, 19, 1084-1092.	8.2	153
3	PIE-scope, integrated cryo-correlative light and FIB/SEM microscopy. ELife, 2019, 8, .	6.0	108
4	Hypoxia activates a latent circuit for processing gustatory information in C. elegans. Nature Neuroscience, 2010, 13, 610-614.	14.8	106
5	Lateralized Gustatory Behavior of C. elegans Is Controlled by Specific Receptor-Type Guanylyl Cyclases. Current Biology, 2009, 19, 996-1004.	3.9	101
6	Oxygen levels affect axon guidance and neuronal migration in Caenorhabditis elegans. Nature Neuroscience, 2008, 11, 894-900.	14.8	96
7	Transmembrane proteoglycans control stretch-activated channels to set cytosolic calcium levels. Journal of Cell Biology, 2015, 210, 1199-1211.	5.2	88
8	Invited review: decoding the microRNA response to hypoxia. Pflugers Archiv European Journal of Physiology, 2011, 461, 307-315.	2.8	75
9	An Epidermal MicroRNA Regulates Neuronal Migration Through Control of the Cellular Glycosylation State. Science, 2013, 341, 1404-1408.	12.6	73
10	Neuronal Responses to Physiological Stress. Frontiers in Genetics, 2012, 3, 222.	2.3	62
11	MicroRNAs: Not â€œFine-Tunersâ€•but Key Regulators of Neuronal Development and Function. Frontiers in Neurology, 2015, 6, 245.	2.4	62
12	Microbeam Irradiation of the C. elegans Nematode. Journal of Radiation Research, 2009, 50, A49-A54.	1.6	57
13	Hub connectivity, neuronal diversity, and gene expression in the Caenorhabditis elegans connectome. PLoS Computational Biology, 2018, 14, e1005989.	3.2	56
14	Functional dissection of the C. elegans cell adhesion molecule SAX-7, a homologue of human L1. Molecular and Cellular Neurosciences, 2008, 37, 56-68.	2.2	54
15	Specific microRNAs Regulate Heat Stress Responses in Caenorhabditis elegans. Scientific Reports, 2015, 5, 8866.	3.3	52
16	Cell-extracellular matrix and cell-cell adhesion are linked by syndecan-4. Matrix Biology, 2017, 60-61, 57-69.	3.6	47
17	A Novel Eph Receptor-Interacting IgSF Protein Provides C. elegans MotoneuronsÂwith Midline Guidepost Function. Current Biology, 2006, 16, 1871-1883.	3.9	46
18	A regulatory network of T-box genes and the even-skippedhomologue vab-7 controls patterning and morphogenesis in C. elegans. Development (Cambridge), 2004, 131, 2373-2385.	2.5	40

#	Article	IF	Citations
19	A Single Gene Target of an ETS-Family Transcription Factor Determines Neuronal CO2-Chemosensitivity. PLoS ONE, 2012, 7, e34014.	2.5	38
20	The ETS-5 transcription factor regulates activity states in Caenorhabditis elegans by controlling satiety. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1651-E1658.	7.1	37
21	EGL-13/SoxD Specifies Distinct O2 and CO2 Sensory Neuron Fates in Caenorhabditis elegans. PLoS Genetics, 2013, 9, e1003511.	3.5	25
22	Interferon-Î²-induced miR-1 alleviates toxic protein accumulation by controlling autophagy. ELife, 2019, 8, .	6.0	23
23	Neuronal function of Tbx20 conserved from nematodes to vertebrates. Developmental Biology, 2008, 317, 671-685.	2.0	22
24	Glycan Mimetics from Natural Products: New Therapeutic Opportunities for Neurodegenerative Disease. Molecules, 2019, 24, 4604.	3.8	20
25	A Novel Role for the Zinc-Finger Transcription Factor EGL-46 in the Differentiation of Gas-Sensing Neurons in Caenorhabditis elegans. Genetics, 2015, 199, 157-163.	2.9	19
26	microRNA regulation of the embryonic hypoxic response in Caenorhabditis elegans. Scientific Reports, 2015, 5, 11284.	3.3	18
27	Caenorhabditis elegans hub genes that respond to amyloid beta are homologs of genes involved in human Alzheimerâ€™s disease. PLoS ONE, 2019, 14, e0219486.	2.5	16
28	In silico analysis of the transcriptional regulatory logic of neuronal identity specification throughout the C. elegans nervous system. ELife, 2021, 10, .	6.0	16
29	Control of Neuropeptide Expression by Parallel Activity-dependent Pathways in Caenorhabditis elegans. Scientific Reports, 2017, 7, 38734.	3.3	14
30	Automated three-dimensional reconstruction of the Caenorhabditis elegans germline. Developmental Biology, 2017, 432, 222-228.	2.0	14
31	Reliable reference miRNAs for quantitative gene expression analysis of stress responses in Caenorhabditis elegans. BMC Genomics, 2014, 15, 222.	2.8	13
32	IFNB/interferon-Î² regulates autophagy via a MIR1-TBC1D15-RAB7 pathway. Autophagy, 2020, 16, 767-769.	9.1	13
33	Regulation of Axonal Midline Guidance by Prolyl 4-Hydroxylation inCaenorhabditis elegans. Journal of Neuroscience, 2014, 34, 16348-16357.	3.6	12
34	A Protein Disulfide Isomerase Controls Neuronal Migration through Regulation of Wnt Secretion. Cell Reports, 2019, 26, 3183-3190.e5.	6.4	12
35	A somatic proteoglycan controls Notch-directed germ cell fate. Nature Communications, 2021, 12, 6708.	12.8	12
36	Distinct CED-10/Rac1 domains confer context-specific functions in development. PLoS Genetics, 2018, 14, e1007670.	3.5	11

#	Article	IF	Citations
37	Transcriptional landscape of the embryonic chicken MÃ¼llerian duct. BMC Genomics, 2020, 21, 688.	2.8	10
38	LIN-32/Atonal Controls Oxygen Sensing Neuron Development in Caenorhabditis elegans. Scientific Reports, 2017, 7, 7294.	3.3	7
39	mir-234 controls neuropeptide release at the Caenorhabditis elegans neuromuscular junction. Molecular and Cellular Neurosciences, 2019, 98, 70-81.	2.2	7
40	Atypical TGF-Î² signaling controls neuronal guidance in Caenorhabditis elegans. IScience, 2022, 25, 103791.	4.1	7
41	Diet-responsive transcriptional regulation of insulin in a single neuron controls systemic metabolism. PLoS Biology, 2022, 20, e3001655.	5.6	7
42	Harmonization of L1CAM expression facilitates axon outgrowth and guidance of a motor neuron. Development (Cambridge), 2020, 147, .	2.5	6
43	Redefining the role of syndecans inC. elegansbiology. Worm, 2016, 5, e1142042.	1.0	5
44	Transcription Factors That Control Behaviorâ€"Lessons From C. elegans. Frontiers in Neuroscience, 2021, 15, 745376.	2.8	5
45	The UNC-4 homeobox protein represses mab-9 expression in DA motor neurons in Caenorhabditis elegans. Mechanisms of Development, 2011, 128, 49-58.	1.7	4
46	Computational Analysis of the Caenorhabditis elegans Germline to Study the Distribution of Nuclei, Proteins, and the Cytoskeleton. Journal of Visualized Experiments, 2018, , .	0.3	4
47	Functions of the extracellular matrix in development: Lessons from Caenorhabditis elegans. Cellular Signalling, 2021, 84, 110006.	3.6	4
48	Neuronal cell fate decisions. Worm, 2013, 2, e27284.	1.0	3
49	Proteomic Characterization of Caenorhabditis elegans Larval Development. Proteomics, 2018, 18, 1700238.	2.2	3
50	The UIG-1/CDC-42 guanine nucleotide exchange factor acts in parallel to CED-10/Rac1 during axon outgrowth in Caenorhabditis elegans. Small GTPases, 2021, 12, 60-66.	1.6	3
51	Functional recovery of the germ line following splicing collapse. Cell Death and Differentiation, 2022, 29, 772-787.	11.2	3
52	Developmental Wiring of Specific Neurons Is Regulated by RET-1/Nogo-A in Caenorhabditis elegans. Genetics, 2017, 205, 295-302.	2.9	2
53	New deletion alleles for Hedgehog pathway-related genes and. MicroPublication Biology, 2019, 2019, .	0.1	2
54	Rac GTPases: domain-specific functions in neuronal development. Neural Regeneration Research, 2019, 14, 1367.	3.0	2

#	Article	IF	Citations
55	Behavioral Assays to Study Oxygen and Carbon Dioxide Sensing in Caenorhabditis elegans. Bio-protocol, 2018, 8, .	0.4	1
56	Transcriptional control of satiety in Caenorhabditis elegans. Communicative and Integrative Biology, 2017, 10, e1325978.	1.4	0
57	A Protein Disulfide Isomerase Controls Neuronal Migration Through Regulation of Wnt Secretion. SSRN Electronic Journal, 0, , .	0.4	0
58	A single amino acid change in the EGL-46 transcription factor causes defects in BAG neuron specification. MicroPublication Biology, 2020, 2020, .	0.1	0