David H Hall

List of Publications by Year
in descending order

92 papers	7,912 citations	81839 39 h-index	60583 81 g-index
110 all docs	110 docs citations	110 times ranked	7459 citing authors

#	Article	IF	Citations
1	Kinesin-3 mediated axonal delivery of presynaptic neurexin stabilizes dendritic spines and postsynaptic components. PLoS Genetics, 2022, 18, e1010016.	1.5	11
2	A multi-scale brain map derived from whole-brain volumetric reconstructions. Nature, 2021, 591, 105-110.	13.7	58
3	A genetic screen identifies new steps in oocyte maturation that enhance proteostasis in the immortal germ lineage. ELife, 2021, 10, .	2.8	11
4	The Prop1-like homeobox gene unc-42 specifies the identity of synaptically connected neurons. ELife, 2021, 10, .	2.8	27
5	The initial expansion of the C. elegans syncytial germ line is coupled to incomplete primordial germ cell cytokinesis. Development (Cambridge), 2021, 148, .	1.2	10
6	Announcement of WormAtlas partnership with the Journal of Nematology. Journal of Nematology, 2021, 53, 1-2.	0.4	1
7	The connectome of the <scp>Caenorhabditis elegans</scp> pharynx. Journal of Comparative Neurology, 2020, 528, 2767-2784.	0.9	26
8	Opposing effects of an F-box protein and the HSP90 chaperone network on microtubule stability and neurite growth in Caenorhabditis elegans. Development (Cambridge), 2020, 147, .	1.2	11
9	Terminal web and vesicle trafficking proteins mediate nematode single-cell tubulogenesis. Journal of Cell Biology, 2020, 219, .	2.3	6
10	Direct glia-to-neuron transdifferentiation gives rise to a pair of male-specific neurons that ensure nimble male mating. ELife, 2020, 9, .	2.8	23
11	Ciliary Rab28 and the BBSome negatively regulate extracellular vesicle shedding. ELife, 2020, 9, .	2.8	46
12	A multi-layered and dynamic apical extracellular matrix shapes the vulva lumen in Caenorhabditis elegans. ELife, 2020, 9, .	2.8	37
13	Whole-animal connectomes of both Caenorhabditis elegans sexes. Nature, 2019, 571, 63-71.	13.7	534
14	The marginal cells of the Caenorhabditis elegans pharynx scavenge cholesterol and other hydrophobic small molecules. Nature Communications, 2019, 10, 3938.	5.8	14
15	Distinct functions and temporal regulation of methylated histone H3 during early embryogenesis. Development (Cambridge), 2019, 146, .	1.2	13
16	Axon-Dependent Patterning and Maintenance of Somatosensory Dendritic Arbors. Developmental Cell, 2019, 48, 229-244.e4.	3.1	21
17	Cell typeâ€specific structural plasticity of the ciliary transition zone in C. elegans. Biology of the Cell, 2019, 111, 95-107.	0.7	21
18	Conserved role for Ataxinâ€2 in mediating endoplasmic reticulum dynamics. Traffic, 2019, 20, 436-447.	1.3	17

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19	The role of gap junctions in the C. elegans connectome. Neuroscience Letters, 2019, 695, 12-18.	1.0	9
20	Caenorhabditis elegansDBL-1/BMP Regulates Lipid Accumulation via Interaction with Insulin Signaling. G3: Genes, Genomes, Genetics, 2018, 8, 343-351.	0.8	33
21	Tubular Excretory Canal Structure Depends on Intermediate Filaments EXC-2 and IFA-4 in Caenorhabditis elegans. Genetics, 2018, 210, 637-652.	1.2	14
22	The AFF-1 exoplasmic fusogen is required for endocytic scission and seamless tube elongation. Nature Communications, 2018, 9, 1741.	5.8	17
23	Regulated nuclear accumulation of a histone methyltransferase times the onset of heterochromatin formation in C. elegans embryos. Science Advances, 2018, 4, eaat6224.	4.7	55
24	Glial loss of the metallo Î²-lactamase domain containing protein, SWIP-10, induces age- and glutamate-signaling dependent, dopamine neuron degeneration. PLoS Genetics, 2018, 14, e1007269.	1.5	17
25	C. elegans neurons jettison protein aggregates and mitochondria under neurotoxic stress. Nature, 2017, 542, 367-371.	13.7	301
26	Cell-Specific Î±-Tubulin Isotype Regulates Ciliary Microtubule Ultrastructure, Intraflagellar Transport, and Extracellular Vesicle Biology. Current Biology, 2017, 27, 968-980.	1.8	67
27	Distinct effects of tubulin isotype mutations on neurite growth inCaenorhabditis elegans. Molecular Biology of the Cell, 2017, 28, 2786-2801.	0.9	29
28	Highâ€resolution imaging of muscle attachment structures in Caenorhabditis elegans. Cytoskeleton, 2017, 74, 426-442.	1.0	17
29	Glutamylation Regulates Transport, Specializes Function, and Sculpts the Structure of Cilia. Current Biology, 2017, 27, 3430-3441.e6.	1.8	67
30	Novel functions for the RNA-binding protein ETR-1 in Caenorhabditis elegans reproduction and engulfment of germline apoptotic cell corpses. Developmental Biology, 2017, 429, 306-320.	0.9	14
31	Gap junctions in C. elegans: Their roles in behavior and development. Developmental Neurobiology, 2017, 77, 587-596.	1.5	40
32	Actomyosin contractility regulators stabilize the cytoplasmic bridge between the two primordial germ cells during Caenorhabditis elegans embryogenesis. Molecular Biology of the Cell, 2017, 28, 3789-3800.	0.9	14
33	Cover Image, Volume 74, Issue 11. Cytoskeleton, 2017, 74, C1.	1.0	1
34	Decreased function of survival motor neuron protein impairs endocytic pathways. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4377-86.	3.3	45
35	KIF1A/UNC-104 Transports ATG-9 to Regulate Neurodevelopment and Autophagy at Synapses. Developmental Cell, 2016, 38, 171-185.	3.1	165
36	Transorganogenesis and transdifferentiation in C. elegans are dependent on differentiated cell identity. Developmental Biology, 2016, 420, 136-147.	0.9	19

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37	Facilitation of Endosomal Recycling by an IRG Protein Homolog Maintains Apical Tubule Structure in Caenorhabditis elegans. Genetics, 2016, 203, 1789-1806.	1.2	11
38	Syndapin/SDPN-1 is required for endocytic recycling and endosomal actin association in theCaenorhabditis elegansintestine. Molecular Biology of the Cell, 2016, 27, 3746-3756.	0.9	20
39	Age-Related Phasic Patterns of Mitochondrial Maintenance in AdultCaenorhabditis elegansNeurons. Journal of Neuroscience, 2016, 36, 1373-1385.	1.7	79
40	Digital development: a database of cell lineage differentiation inC. eleganswith lineage phenotypes, cell-specific gene functions and a multiscale model. Nucleic Acids Research, 2016, 44, D781-D785.	6.5	16
41	The Apoptotic Engulfment Machinery Regulates Axonal Degeneration in C.Âelegans Neurons. Cell Reports, 2016, 14, 1673-1683.	2.9	37
42	Integrity of Narrow Epithelial Tubes in the C. elegans Excretory System Requires a Transient Luminal Matrix. PLoS Genetics, 2016, 12, e1006205.	1.5	44
43	FLCN and AMPK Confer Resistance to Hyperosmotic Stress via Remodeling of Glycogen Stores. PLoS Genetics, 2015, 11, e1005520.	1.5	46
44	A cellular and regulatory map of the cholinergic nervous system of C. elegans. ELife, 2015, 4, .	2.8	279
45	Myristoylated CIL-7 regulates ciliary extracellular vesicle biogenesis. Molecular Biology of the Cell, 2015, 26, 2823-2832.	0.9	53
46	A novel function for theCaenorhabditis eleganstorsin OOC-5 in nucleoporin localization and nuclear import. Molecular Biology of the Cell, 2015, 26, 1752-1763.	0.9	68
47	Cell-Specific Transcriptional Profiling of Ciliated Sensory Neurons Reveals Regulators of Behavior and Extracellular Vesicle Biogenesis. Current Biology, 2015, 25, 3232-3238.	1.8	75
48	Glia-derived neurons are required for sex-specific learning in C. elegans. Nature, 2015, 526, 385-390.	13.7	110
49	Electron Tomography Methods for C. elegans. Methods in Molecular Biology, 2015, 1327, 141-158.	0.4	4
50	Cilia and Extracellular Vesicles are signaling organelles. FASEB Journal, 2015, 29, 82.1.	0.2	0
51	Folliculin Regulates Ampk-Dependent Autophagy and Metabolic Stress Survival. PLoS Genetics, 2014, 10, e1004273.	1.5	102
52	The nphp-2 and arl-13 Genetic Modules Interact to Regulate Ciliogenesis and Ciliary Microtubule Patterning in C. elegans. PLoS Genetics, 2014, 10, e1004866.	1.5	28
53	Two Classes of Gap Junction Channels Mediate Soma-Germline Interactions Essential for Germline Proliferation and Gametogenesis in Caenorhabditis elegans. Genetics, 2014, 198, 1127-1153.	1.2	66
54	Ciliopathy proteins establish a bipartite signaling compartment in a C. elegans thermosensory neuron. Journal of Cell Science, 2014, 127, 5317-30.	1.2	37

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55	C.Âelegans Ciliated Sensory Neurons Release Extracellular Vesicles that Function in Animal Communication. Current Biology, 2014, 24, 519-525.	1.8	196
56	B-LINK: A Hemicentin, Plakin, and Integrin-Dependent Adhesion System that Links Tissues by Connecting Adjacent Basement Membranes. Developmental Cell, 2014, 31, 319-331.	3.1	65
57	Shigella flexneri Infection in Caenorhabditis elegans: Cytopathological Examination and Identification of Host Responses. PLoS ONE, 2014, 9, e106085.	1.1	15
58	Intracellular lumen extension requires ERM-1-dependent apical membrane expansionÂandÂAQP-8-mediated flux. Nature Cell Biology, 2013, 15, 143-156.	4.6	89
59	Computer Assisted Assembly of Connectomes from Electron Micrographs: Application to Caenorhabditis elegans. PLoS ONE, 2013, 8, e54050.	1.1	50
60	Extracellular leucine-rich repeat proteins are required to organize the apical extracellular matrix and maintain epithelial junction integrity in C. elegans. Development (Cambridge), 2012, 139, 979-990.	1.2	58
61	Modern Electron Microscopy Methods for C. elegans. Methods in Cell Biology, 2012, 107, 93-149.	0.5	89
62	The Connectome of a Decision-Making Neural Network. Science, 2012, 337, 437-444.	6.0	403
63	Genetically Separable Functions of the MEC-17 Tubulin Acetyltransferase Affect Microtubule Organization. Current Biology, 2012, 22, 1057-1065.	1.8	135
64	How does morphology relate to function in sensory arbors?. Trends in Neurosciences, 2011, 34, 443-451.	4.2	44
65	Notch and Ras promote sequential steps of excretory tube development inC. elegans. Development (Cambridge), 2011, 138, 3545-3555.	1.2	48
66	Structural Properties of the Caenorhabditis elegans Neuronal Network. PLoS Computational Biology, 2011, 7, e1001066.	1.5	701
67	The Fusogen EFF-1 Controls Sculpting of Mechanosensory Dendrites. Science, 2010, 328, 1285-1288.	6.0	155
68	Lipocalin signaling controls unicellular tube development in the Caenorhabditis elegans excretory system. Developmental Biology, 2009, 329, 201-211.	0.9	56
69	Developmental genetics of the C. eleganspharyngeal neurons NSML and NSMR. BMC Developmental Biology, 2008, 8, 38.	2.1	34
70	Teaching Nematode Anatomy Online: WormAtlas and Slidable Worm. FASEB Journal, 2008, 22, 769.10.	0.2	1
71	Nematode Neurons: Anatomy and Anatomical Methods in Caenorhabditis elegans. International Review of Neurobiology, 2005, 69, 1-35.	0.9	14
72	The Nematode Caenorhabditis elegans A Model Animal â€œMade for Microscopyâ€• Microscopy Today, 2004, 12, 8-13.	0.2	0

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73	EFF-1 Is Sufficient to Initiate and Execute Tissue-Specific Cell Fusion in C. elegans. Current Biology, 2004, 14, 1587-1591.	1.8	91
74	Lumen Morphogenesis in C. elegans Requires the Membrane-Cytoskeleton Linker erm-1. Developmental Cell, 2004, 6, 865-873.	3.1	149
75	The role of the ELAV homologue EXC-7 in the developmentof the Caenorhabditis elegans excretory canals. Developmental Biology, 2003, 256, 290-301.	0.9	34
76	A C. elegans CLIC-like Protein Required for Intracellular Tube Formation and Maintenance. Science, 2003, 302, 2134-2137.	6.0	146
77	A putative GDPâ€“GTP exchange factor is required for development of the excretory cell in Caenorhabditis elegans. EMBO Reports, 2001, 2, 530-535.	2.0	35
78	Cooperative regulation of AJM-1 controls junctional integrity in Caenorhabditis elegans epithelia. Nature Cell Biology, 2001, 3, 983-991.	4.6	280
79	Evidence that RME-1, a conserved C. elegans EH-domain protein, functions in endocytic recycling. Nature Cell Biology, 2001, 3, 573-579.	4.6	248
80	The Caenorhabditis elegans autosomal dominant polycystic kidney disease gene homologs lov-1 and pkd-2 act in the same pathway. Current Biology, 2001, 11, 1341-1346.	1.8	293
81	mua-3, a gene required for mechanical tissue integrity in Caenorhabditis elegans, encodes a novel transmembrane protein of epithelial attachment complexes. Journal of Cell Biology, 2001, 154, 415-426.	2.3	54
82	Immuno-EM Localization of GFP-tagged Yolk Proteins inC. ElegansUsing Microwave Fixation. Journal of Histochemistry and Cytochemistry, 2001, 49, 949-956.	1.3	47
83	Soma/Germline Interactions In Caenorhabditis Elegans Gonad. Microscopy and Microanalysis, 1999, 5, 1072-1073.	0.2	0
84	Morphogenesis of theCaenorhabditis elegansMale Tail Tip. Developmental Biology, 1999, 207, 86-106.	0.9	69
85	Ultrastructural Features of the Adult Hermaphrodite Gonad of Caenorhabditis elegans: Relations between the Germ Line and Soma. Developmental Biology, 1999, 212, 101-123.	0.9	278
86	Cystic Canal Mutants in Caenorhabditis elegans Are Defective in the Apical Membrane Domain of the Renal (Excretory) Cell. Developmental Biology, 1999, 214, 227-241.	0.9	127
87	Chapter 17 Electron Microscopy and Three-Dimensional Image Reconstruction. Methods in Cell Biology, 1995, 48, 395-436.	0.5	92
88	The unc-5, unc-6, and unc-40 genes guide circumferential migrations of pioneer axons and mesodermal cells on the epidermis in C. elegans. Neuron, 1990, 4, 61-85.	3.8	841
89	Freeze-Fracture and Freeze-Etch Studies of the Nematode Caenorhabditis elegans. Annals of the New York Academy of Sciences, 1987, 494, 215-217.	1.8	7
90	Gap junctions and septate-like junctions between neurons of the opisthobranch molluscNavanax inermis. Journal of Neurocytology, 1983, 12, 831-846.	1.6	14

#	Article	IF	Citations
91	WormAtlas Hermaphrodite Handbook - Alimentary System - Pharynx. , 0, , .		12
92	WormAtlas Anatomical Methods - OTO Fixation for SEM Blockface Imaging. , 0, , .		7