

Christine Holt

List of Publications by Year in descending order

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110
papers

16,784
citations

20817

60
h-index

24258

110
g-index

145
all docs

145
docs citations

145
times ranked

13393
citing authors

#	ARTICLE	IF	CITATIONS
1	Receptor-Ribosome Coupling: A Link Between Extrinsic Signals and mRNA Translation in Neuronal Compartments. <i>Annual Review of Neuroscience</i> , 2022, 45, .	10.7	5
2	Axonal mRNA translation in neurological disorders. <i>RNA Biology</i> , 2021, 18, 936-961.	3.1	21
3	The structure and global distribution of the endoplasmic reticulum network are actively regulated by lysosomes. <i>Science Advances</i> , 2020, 6, .	10.3	58
4	Axon microdissection and transcriptome profiling reveals the in vivo RNA content of fully differentiated myelinated motor axons. <i>Rna</i> , 2020, 26, 595-612.	3.5	13
5	A Protocol for Single-Molecule Translation Imaging in <i>Xenopus</i> Retinal Ganglion Cells. <i>Neuromethods</i> , 2020, , 295-308.	0.3	0
6	Local translation in neurons: visualization and function. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 557-566.	8.2	355
7	On-Site Ribosome Remodeling by Locally Synthesized Ribosomal Proteins in Axons. <i>Cell Reports</i> , 2019, 29, 3605-3619.e10.	6.4	103
8	Noncanonical Modulation of the eIF2 Pathway Controls an Increase in Local Translation during Neural Wiring. <i>Molecular Cell</i> , 2019, 73, 474-489.e5.	9.7	70
9	Late Endosomes Act as mRNA Translation Platforms and Sustain Mitochondria in Axons. <i>Cell</i> , 2019, 176, 56-72.e15.	28.9	300
10	Rapid changes in tissue mechanics regulate cell behaviour in the developing embryonic brain. <i>ELife</i> , 2019, 8, .	6.0	101
11	Receptor-specific interactome as a hub for rapid cue-induced selective translation in axons. <i>ELife</i> , 2019, 8, .	6.0	48
12	Axon-Axon Interactions Regulate Topographic Optic Tract Sorting via CYFIP2-Dependent WAVE Complex Function. <i>Neuron</i> , 2018, 97, 1078-1093.e6.	8.1	59
13	FUS Phase Separation Is Modulated by a Molecular Chaperone and Methylation of Arginine Cation- π Interactions. <i>Cell</i> , 2018, 173, 720-734.e15.	28.9	662
14	Molecular control of local translation in axon development and maintenance. <i>Current Opinion in Neurobiology</i> , 2018, 51, 86-94.	4.2	125
15	Axon-TRAP-RiboTag: Affinity Purification of Translated mRNAs from Neuronal Axons in Mouse In Vivo. <i>Methods in Molecular Biology</i> , 2018, 1649, 85-94.	0.9	20
16	Growth Cone Tctp Is Dynamically Regulated by Guidance Cues. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 399.	2.9	14
17	Cue-Polarized Transport of β -actin mRNA Depends on 3'UTR and Microtubules in Live Growth Cones. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 300.	3.7	20
18	Single-molecule analysis of endogenous β -actin mRNA trafficking reveals a mechanism for compartmentalized mRNA localization in axons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9697-E9706.	7.1	69

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19	Rapid Cue-Specific Remodeling of the Nascent Axonal Proteome. <i>Neuron</i> , 2018, 99, 29-46.e4.	8.1	136
20	Targeted Electroporation in the CNS in <i>Xenopus</i> Embryos. <i>Methods in Molecular Biology</i> , 2018, 1865, 119-131.	0.9	21
21	miR-182 Regulates Slit2-Mediated Axon Guidance by Modulating the Local Translation of a Specific mRNA. <i>Cell Reports</i> , 2017, 18, 1171-1186.	6.4	82
22	Single Molecule Translation Imaging Visualizes the Dynamics of Local β -Actin Synthesis in Retinal Axons. <i>Scientific Reports</i> , 2017, 7, 709.	3.3	53
23	RNA Docking and Local Translation Regulate Site-Specific Axon Remodeling In Vivo. <i>Neuron</i> , 2017, 95, 852-868.e8.	8.1	163
24	Tctp in Neuronal Circuitry Assembly. <i>Results and Problems in Cell Differentiation</i> , 2017, 64, 201-215.	0.7	4
25	Filopodyan: An open-source pipeline for the analysis of filopodia. <i>Journal of Cell Biology</i> , 2017, 216, 3405-3422.	5.2	46
26	ESCRT-II controls retinal axon growth by regulating DCC receptor levels and local protein synthesis. <i>Open Biology</i> , 2016, 6, 150218.	3.6	45
27	Mechanosensing is critical for axon growth in the developing brain. <i>Nature Neuroscience</i> , 2016, 19, 1592-1598.	14.8	478
28	Hermes Regulates Axon Sorting in the Optic Tract by Post-Transcriptional Regulation of Neuropilin 1. <i>Journal of Neuroscience</i> , 2016, 36, 12697-12706.	3.6	18
29	Dynamic Axonal Translation in Developing and Mature Visual Circuits. <i>Cell</i> , 2016, 166, 181-192.	28.9	385
30	Tumor protein Tctp regulates axon development in the embryonic visual system. <i>Development (Cambridge)</i> , 2016, 143, 1134-48.	2.5	45
31	Differential requirement of F-actin and microtubule cytoskeleton in cue-induced local protein synthesis in axonal growth cones. <i>Neural Development</i> , 2015, 10, 3.	2.4	53
32	ALS/FTD Mutation-Induced Phase Transition of FUS Liquid Droplets and Reversible Hydrogels into Irreversible Hydrogels Impairs RNP Granule Function. <i>Neuron</i> , 2015, 88, 678-690.	8.1	716
33	NF-Protocadherin Regulates Retinal Ganglion Cell Axon Behaviour in the Developing Visual System. <i>PLoS ONE</i> , 2015, 10, e0141290.	2.5	11
34	Protein Synthesis Dependence of Growth Cone Collapse Induced by Different Nogo-A-Domains. <i>PLoS ONE</i> , 2014, 9, e86820.	2.5	10
35	RNA-binding protein Vg1RBP regulates terminal arbor formation but not long-range axon navigation in the developing visual system. <i>Developmental Neurobiology</i> , 2014, 74, 303-318.	3.0	23
36	Introduction to the special issue on local protein synthesis in axons. <i>Developmental Neurobiology</i> , 2014, 74, 207-209.	3.0	8

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37	Rab5 and Rab4 Regulate Axon Elongation in the <i>Xenopus</i> Visual System. <i>Journal of Neuroscience</i> , 2014, 34, 373-391.	3.6	53
38	Remote Control of Gene Function by Local Translation. <i>Cell</i> , 2014, 157, 26-40.	28.9	273
39	RNA-Binding Protein Hermes/RBPMS Inversely Affects Synapse Density and Axon Arbor Formation in Retinal Ganglion Cells In Vivo. <i>Journal of Neuroscience</i> , 2013, 33, 10384-10395.	3.6	50
40	The Central Dogma Decentralized: New Perspectives on RNA Function and Local Translation in Neurons. <i>Neuron</i> , 2013, 80, 648-657.	8.1	473
41	RNA-based mechanisms underlying axon guidance. <i>Journal of Cell Biology</i> , 2013, 202, 991-999.	5.2	32
42	Coupling of NF-protocadherin signaling to axon guidance by cue-induced translation. <i>Nature Neuroscience</i> , 2013, 16, 166-173.	14.8	70
43	Role of microRNAs in Semaphorin function and neural circuit formation. <i>Seminars in Cell and Developmental Biology</i> , 2013, 24, 146-155.	5.0	24
44	RNA-binding proteins and translational regulation in axons and growth cones. <i>Frontiers in Neuroscience</i> , 2013, 7, 81.	2.8	65
45	Differing Semaphorin 3A Concentrations Trigger Distinct Signaling Mechanisms in Growth Cone Collapse. <i>Journal of Neuroscience</i> , 2012, 32, 8554-8559.	3.6	47
46	Local Translation of Extranuclear Lamin B Promotes Axon Maintenance. <i>Cell</i> , 2012, 148, 752-764.	28.9	244
47	miR-124 acts through CoREST to control onset of Sema3A sensitivity in navigating retinal growth cones. <i>Nature Neuroscience</i> , 2012, 15, 29-38.	14.8	107
48	Axonal mRNA localization and local protein synthesis in nervous system assembly, maintenance and repair. <i>Nature Reviews Neuroscience</i> , 2012, 13, 308-324.	10.2	424
49	14 β proteins regulate retinal axon growth by modulating ADF/cofilin activity. <i>Developmental Neurobiology</i> , 2012, 72, 600-614.	3.0	19
50	Translational regulation in growth cones. <i>Current Opinion in Genetics and Development</i> , 2011, 21, 458-464.	3.3	31
51	Local translation of mRNAs in neural development. <i>Wiley Interdisciplinary Reviews RNA</i> , 2011, 2, 153-165.	6.4	28
52	Regulation of chemotropic guidance of nerve growth cones by microRNA. <i>Molecular Brain</i> , 2011, 4, 40.	2.6	28
53	Transcriptome analysis of embryonic and adult sensory axons reveals changes in mRNA repertoire localization. <i>Rna</i> , 2011, 17, 85-98.	3.5	343
54	Subcellular Profiling Reveals Distinct and Developmentally Regulated Repertoire of Growth Cone mRNAs. <i>Journal of Neuroscience</i> , 2010, 30, 15464-15478.	3.6	299

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55	E3 Ligase Nedd4 Promotes Axon Branching by Downregulating PTEN. <i>Neuron</i> , 2010, 65, 341-357.	8.1	220
56	Local Translation and mRNA Trafficking in Axon Pathfinding. <i>Results and Problems in Cell Differentiation</i> , 2009, 48, 108-138.	0.7	44
57	Cytoplasmic polyadenylation and cytoplasmic polyadenylation element-dependent mRNA regulation are involved in <i>Xenopus</i> retinal axon development. <i>Neural Development</i> , 2009, 4, 8.	2.4	47
58	Extracellular Engrailed Participates in the Topographic Guidance of Retinal Axons In Vivo. <i>Neuron</i> , 2009, 64, 355-366.	8.1	105
59	A functional equivalent of endoplasmic reticulum and Golgi in axons for secretion of locally synthesized proteins. <i>Molecular and Cellular Neurosciences</i> , 2009, 40, 128-142.	2.2	148
60	Axonal mRNAs: Characterisation and role in the growth and regeneration of dorsal root ganglion axons and growth cones. <i>Molecular and Cellular Neurosciences</i> , 2009, 42, 102-115.	2.2	81
61	Subcellular mRNA Localization in Animal Cells and Why It Matters. <i>Science</i> , 2009, 326, 1212-1216.	12.6	352
62	Live visualization of protein synthesis in axonal growth cones by microinjection of photoconvertible Kaede into <i>Xenopus</i> embryos. <i>Nature Protocols</i> , 2008, 3, 1318-1327.	12.0	49
63	Function and regulation of local axonal translation. <i>Current Opinion in Neurobiology</i> , 2008, 18, 60-68.	4.2	131
64	A Cytoskeletal Platform for Local Translation in Axons. <i>Science Signaling</i> , 2008, 1, pe11.	3.6	17
65	A role for S1P signalling in axon guidance in the <i>Xenopus</i> visual system. <i>Development (Cambridge)</i> , 2008, 135, 333-342.	2.5	45
66	NF-Protocadherin and TAF1 Regulate Retinal Axon Initiation and Elongation In Vivo. <i>Journal of Neuroscience</i> , 2008, 28, 100-105.	3.6	66
67	Ena/VASP function in retinal axons is required for terminal arborization but not pathway navigation. <i>Development (Cambridge)</i> , 2007, 134, 2137-2146.	2.5	62
68	Electroporation of cDNA/Morpholinos to targeted areas of embryonic CNS in <i>Xenopus</i> . <i>BMC Developmental Biology</i> , 2007, 7, 107.	2.1	95
69	Local translation and directional steering in axons. <i>EMBO Journal</i> , 2007, 26, 3729-3736.	7.8	169
70	The Role of Cyclic Nucleotides in Axon Guidance. <i>Advances in Experimental Medicine and Biology</i> , 2007, 621, 134-143.	1.6	33
71	Signaling Mechanisms Underlying Slit2-Induced Collapse of <i>Xenopus</i> Retinal Growth Cones. <i>Neuron</i> , 2006, 49, 215-228.	8.1	275
72	Asymmetrical β -actin mRNA translation in growth cones mediates attractive turning to netrin-1. <i>Nature Neuroscience</i> , 2006, 9, 1247-1256.	14.8	443

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73	Development. Current Opinion in Neurobiology, 2006, 16, 1-4.	4.2	86
74	A Molecular Mechanism for the Heparan Sulfate Dependence of Slit-Robo Signaling. Journal of Biological Chemistry, 2006, 281, 39693-39698.	3.4	99
75	Endocytosis-dependent desensitization and protein synthesis-dependent resensitization in retinal growth cone adaptation. Nature Neuroscience, 2005, 8, 179-186.	14.8	161
76	SFRP1 regulates the growth of retinal ganglion cell axons through the Fz2 receptor. Nature Neuroscience, 2005, 8, 1301-1309.	14.8	132
77	The transcription factor Engrailed-2 guides retinal axons. Nature, 2005, 438, 94-98.	27.8	243
78	Axonal Protein Synthesis and Degradation Are Necessary for Efficient Growth Cone Regeneration. Journal of Neuroscience, 2005, 25, 331-342.	3.6	391
79	Sugar Codes for Axons?. Neuron, 2005, 46, 169-172.	8.1	102
80	Retinal axon guidance: novel mechanisms for steering. Current Opinion in Neurobiology, 2004, 14, 61-66.	4.2	55
81	Dedication to Friedrich Bonhoeffer. Journal of Neurobiology, 2004, 59, 1-2.	3.6	0
82	RNA TRANSLATION IN AXONS. Annual Review of Cell and Developmental Biology, 2004, 20, 505-523.	9.4	189
83	New views on retinal axon development: a navigation guide. International Journal of Developmental Biology, 2004, 48, 957-964.	0.6	57
84	B-type Eph receptors and ephrins induce growth cone collapse through distinct intracellular pathways. Journal of Neurobiology, 2003, 57, 323-336.	3.6	86
85	Apoptotic Pathway and MAPKs Differentially Regulate Chemotropic Responses of Retinal Growth Cones. Neuron, 2003, 37, 939-952.	8.1	271
86	Chondroitin sulfate disrupts axon pathfinding in the optic tract and alters growth cone dynamics. Journal of Neurobiology, 2002, 53, 330-342.	3.6	37
87	Specific heparan sulfate structures involved in retinal axon targeting. Development (Cambridge), 2002, 129, 61-70.	2.5	90
88	Chemotropic Responses of Retinal Growth Cones Mediated by Rapid Local Protein Synthesis and Degradation. Neuron, 2001, 32, 1013-1026.	8.1	754
89	Semaphorin 3A Elicits Stage-Dependent Collapse, Turning, and Branching in <i>Xenopus</i> Retinal Growth Cones. Journal of Neuroscience, 2001, 21, 8538-8547.	3.6	187
90	Receptor protein tyrosine phosphatases regulate retinal ganglion cell axon outgrowth in the developing <i>Xenopus</i> visual system. Journal of Neurobiology, 2001, 49, 99-117.	3.6	45

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91	Control of retinal growth and axon divergence at the chiasm: lessons from <i>Xenopus</i> . <i>BioEssays</i> , 2001, 23, 319-326.	2.5	31
92	<i>Xenopus</i> Sprouty2 inhibits FGF-mediated gastrulation movements but does not affect mesoderm induction and patterning. <i>Genes and Development</i> , 2001, 15, 1152-1166.	5.9	141
93	The multiple decisions made by growth cones of RGCs as they navigate from the retina to the tectum in <i>Xenopus</i> embryos. <i>Journal of Neurobiology</i> , 2000, 44, 246-259.	3.6	49
94	The multiple decisions made by growth cones of RGCs as they navigate from the retina to the tectum in <i>Xenopus</i> embryos. <i>Journal of Neurobiology</i> , 2000, 44, 246.	3.6	3
95	Growth-cone attraction to netrin-1 is converted to repulsion by laminin-1. <i>Nature</i> , 1999, 401, 69-73.	27.8	465
96	Fibroblast growth factor receptor signaling in <i>Xenopus</i> retinal axon extension. <i>Journal of Neurobiology</i> , 1998, 37, 633-641.	3.6	65
97	A critical window for cooperation and competition among developing retinotectal synapses. <i>Nature</i> , 1998, 395, 37-44.	27.8	815
98	Overexpression of c-src and n-src in the Developing <i>Xenopus</i> Retina Differentially Impairs Axonogenesis. <i>Molecular and Cellular Neurosciences</i> , 1997, 9, 276-292.	2.2	7
99	Turning of Retinal Growth Cones in a Netrin-1 Gradient Mediated by the Netrin Receptor DCC. <i>Neuron</i> , 1997, 19, 1211-1224.	8.1	284
100	cAMP-Dependent Growth Cone Guidance by Netrin-1. <i>Neuron</i> , 1997, 19, 1225-1235.	8.1	542
101	Growth factors: a role in guiding axons?. <i>Trends in Cell Biology</i> , 1997, 7, 424-430.	7.9	17
102	Inhibition of FGF Receptor Activity in Retinal Ganglion Cell Axons Causes Errors in Target Recognition. <i>Neuron</i> , 1996, 17, 245-254.	8.1	137
103	Cadherin Function Is Required for Axon Outgrowth in Retinal Ganglion Cells In Vivo. <i>Neuron</i> , 1996, 17, 837-848.	8.1	266
104	Expression and herbimycin A-sensitive localization of pp125FAK in retinal growth cones. <i>NeuroReport</i> , 1996, 7, 1133-1137.	1.2	9
105	FGF signaling and target recognition in the developing <i>xenopus</i> visual system. <i>Neuron</i> , 1995, 15, 1017-1028.	8.1	168
106	Position, guidance, and mapping in the developing visual system. <i>Journal of Neurobiology</i> , 1993, 24, 1400-1422.	3.6	117
107	Navigational errors made by growth cones without filopodia in the embryonic <i>xenopus</i> brain. <i>Neuron</i> , 1993, 11, 237-251.	8.1	264
108	Lipofection of cDNAs in the embryonic vertebrate central nervous system. <i>Neuron</i> , 1990, 4, 203-214.	8.1	259

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109	Effects of intraocular tetrodotoxin on the development of the retinocollicular pathway in the syrian hamster. <i>Journal of Comparative Neurology</i> , 1989, 282, 371-388.	1.6	69
110	Cellular determination in the xenopus retina is independent of lineage and birth date. <i>Neuron</i> , 1988, 1, 15-26.	8.1	624