Catherine A Collins

List of Publications by Year
in descending order

35 papers	3,262 citations	279798 23 h-index	395702 33 g-index
39 all docs	39 docs citations	39 times ranked	3830 citing authors

#	Article	IF	Citations
1	Increased Expression of the Drosophila Vesicular Glutamate Transporter Leads to Excess Glutamate Release and a Compensatory Decrease in Quantal Content. Journal of Neuroscience, 2004, 24, 10466-10474.	3.6	563
2	Highwire Restrains Synaptic Growth by Attenuating a MAP Kinase Signal. Neuron, 2006, 51, 57-69.	8.1	311
3	Protein turnover of the Wallenda/DLK kinase regulates a retrograde response to axonal injury. Journal of Cell Biology, 2010, 191, 211-223.	5.2	238
4	Synaptic development: insights from Drosophila. Current Opinion in Neurobiology, 2007, 17, 35-42.	4.2	229
5	Visualizing glutamatergic cell bodies and synapses in <i>Drosophila</i> larval and adult CNS. Journal of Comparative Neurology, 2008, 508, 131-152.	1.6	168
6	Activation of Hsp70 reduces neurotoxicity by promoting polyglutamine protein degradation. Nature Chemical Biology, 2013, 9, 112-118.	8.0	166
7	A Single Vesicular Glutamate Transporter Is Sufficient to Fill a Synaptic Vesicle. Neuron, 2006, 49, 11-16.	8.1	162
8	The Highwire Ubiquitin Ligase Promotes Axonal Degeneration by Tuning Levels of Nmnat Protein. PLoS Biology, 2012, 10, e1001440.	5.6	161
9	The question remains: is the spliceosome a ribozyme?. , 2000, 7, 850-854.		141
10	Control of a Kinesin-Cargo Linkage Mechanism by JNK Pathway Kinases. Current Biology, 2007, 17, 1313-1317.	3.9	140
11	Mutations in <i>VPS13D</i> lead to a new recessive ataxia with spasticity and mitochondrial defects. Annals of Neurology, 2018, 83, 1075-1088.	5.3	122
12	Allele-specific genetic interactions between Prp8 and RNA active site residues suggest a function for Prp8 at the catalytic core of the spliceosome. Genes and Development, 1999, 13, 1970-1982.	5.9	109
13	Highwire Function at the Drosophila Neuromuscular Junction: Spatial, Structural, and Temporal Requirements. Journal of Neuroscience, 2005, 25, 9557-9566.	3.6	104
14	Microfluidic Chips for In Vivo Imaging of Cellular Responses to Neural Injury in Drosophila Larvae. PLoS ONE, 2012, 7, e29869.	2.5	90
15	A Conditioning Lesion Protects Axons from Degeneration via the Wallenda/DLK MAP Kinase Signaling Cascade. Journal of Neuroscience, 2012, 32, 610-615.	3.6	80
16	An evolutionarily conserved mechanism for cAMP elicited axonal regeneration involves direct activation of the dual leucine zipper kinase DLK. ELife, 2016, 5, .	6.0	59
17	An axonal stress response pathway: degenerative and regenerative signaling by DLK. Current Opinion in Neurobiology, 2018, 53, 110-119.	4.2	49
18	Independent Pathways Downstream of the Wnd/DLK MAPKKK Regulate Synaptic Structure, Axonal Transport, and Injury Signaling. Journal of Neuroscience, 2013, 33, 12764-12778.	3.6	37

#	Article	IF	Citations
19	Sodium and Potassium Currents Influence Wallerian Degeneration of Injured<i>Drosophila</i>Axons. Journal of Neuroscience, 2013, 33, 18728-18739.	3.6	35
20	Bimodal Control of Dendritic and Axonal Growth by the Dual Leucine Zipper Kinase Pathway. PLoS Biology, 2013, 11, e1001572.	5.6	34
21	Restraint of presynaptic protein levels by Wnd/DLK signaling mediates synaptic defects associated with the kinesin-3 motor Unc-104. ELife, 2017, 6, .	6.0	32
22	Mitochondria and Caspases Tune Nmnat-Mediated Stabilization to Promote Axon Regeneration. PLoS Genetics, 2016, 12, e1006503.	3.5	29
23	New Approaches for Studying Synaptic Development, Function, and Plasticity Using<i>Drosophila</i>as a Model System. Journal of Neuroscience, 2013, 33, 17560-17568.	3.6	28
24	A high affinity RIM-binding protein/Aplip1 interaction prevents the formation of ectopic axonal active zones. ELife, 2015, 4, .	6.0	26
25	Diminished MTORC1-Dependent JNK Activation Underlies the Neurodevelopmental Defects Associated with Lysosomal Dysfunction. Cell Reports, 2015, 12, 2009-2020.	6.4	25
26	Intrinsic mechanisms for axon regeneration: insights from injured axons in Drosophila. Current Opinion in Genetics and Development, 2017, 44, 84-91.	3.3	25
27	Regulation of longevity by depolarization-induced activation of PLC-Î²â€“IP ₃ R signaling in neurons. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21
28	Using Microfluidics Chips for Live Imaging and Study of Injury Responses in Drosophila Larvae. Journal of Visualized Experiments, 2014, , e50998.	0.3	20
29	Degeneration of Injured Axons and Dendrites Requires Restraint of a Protective JNK Signaling Pathway by the Transmembrane Protein Raw. Journal of Neuroscience, 2019, 39, 8457-8470.	3.6	11
30	An NAD+/NMN balancing act by SARM1 and NMNAT2 controls axonal degeneration. Neuron, 2021, 109, 1067-1069.	8.1	10
31	Stac protein regulates release of neuropeptides. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29914-29924.	7.1	9
32	Mitochondrial fission, integrity and completion of mitophagy require separable functions of Vps13D in Drosophila neurons. PLoS Genetics, 2021, 17, e1009731.	3.5	8
33	On chip cryo-anesthesia of Drosophila larvae for high resolution in vivo imaging applications. Lab on A Chip, 2017, 17, 2303-2322.	6.0	8
34	Coordinating Synaptic Growth without Being a Nervous Wreck. Neuron, 2004, 41, 489-491.	8.1	5
35	Mechanisms of Axonal Degeneration and Regeneration. , 0, , 575-592.		1