Shinsuke Niwa

List of Publications by Year
in descending order

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28 papers	3,726 citations	516710 16 h-index	501196 28 g-index
37 all docs	37 docs citations	37 times ranked	5254 citing authors

#	Article	IF	Citations
1	Kinesin superfamily motor proteins and intracellular transport. Nature Reviews Molecular Cell Biology, 2009, 10, 682-696.	37.0	1,457
2	Molecular Motors in Neurons: Transport Mechanisms and Roles in Brain Function, Development, and Disease. Neuron, 2010, 68, 610-638.	8.1	940
3	KIF1BÎ²- and KIF1A-mediated axonal transport of presynaptic regulator Rab3 occurs in a GTP-dependent manner through DENN/MADD. Nature Cell Biology, 2008, 10, 1269-1279.	10.3	185
4	Preferential binding of a kinesin-1 motor to GTP-tubulinâ€“rich microtubules underlies polarized vesicle transport. Journal of Cell Biology, 2011, 194, 245-255.	5.2	137
5	KIF19A Is a Microtubule-Depolymerizing Kinesin for Ciliary Length Control. Developmental Cell, 2012, 23, 1167-1175.	7.0	128
6	A Combinatorial MAP Code Dictates Polarized Microtubule Transport. Developmental Cell, 2020, 53, 60-72.e4.	7.0	106
7	Autoinhibition of a Neuronal Kinesin UNC-104/KIF1A Regulates the Size and Density of Synapses. Cell Reports, 2016, 16, 2129-2141.	6.4	105
8	Disease-associated mutations hyperactivate KIF1A motility and anterograde axonal transport of synaptic vesicle precursors. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18429-18434.	7.1	89
9	Î²-Tubulin mutations that cause severe neuropathies disrupt axonal transport. EMBO Journal, 2013, 32, 1352-1364.	7.8	85
10	BORC Regulates the Axonal Transport of Synaptic Vesicle Precursors by Activating ARL-8. Current Biology, 2017, 27, 2569-2578.e4.	3.9	72
11	The Molecular Motor KIF1A Transports the TrkA Neurotrophin Receptor and Is Essential for Sensory Neuron Survival and Function. Neuron, 2016, 90, 1215-1229.	8.1	67
12	Going Too Far Is the Same as Falling Shortâ€: Kinesin-3 Family Members in Hereditary Spastic Paraplegia. Frontiers in Cellular Neuroscience, 2019, 13, 419.	3.7	52
13	Structural basis for CRMP2-induced axonal microtubule formation. Scientific Reports, 2017, 7, 10681.	3.3	50
14	Synergistic autoinhibition and activation mechanisms control kinesin-1 motor activity. Cell Reports, 2022, 39, 110900.	6.4	32
15	A highly conserved 3 ₁₀ helix within the kinesin motor domain is critical for kinesin function and human health. Science Advances, 2021, 7, .	10.3	31
16	Characterizing KIF16B in Neurons Reveals a Novel Intramolecular â€œStalk Inhibitionâ€•Mechanism That Regulates Its Capacity to Potentiate the Selective Somatodendritic Localization of Early Endosomes. Journal of Neuroscience, 2015, 35, 5067-5086.	3.6	30
17	Non-invasive force measurement reveals the number of active kinesins on a synaptic vesicle precursor in axonal transport regulated by ARL-8. Physical Chemistry Chemical Physics, 2018, 20, 3403-3410.	2.8	25
18	KIF1BÎ² mutations detected in hereditary neuropathy impair IGF1R transport and axon growth. Journal of Cell Biology, 2018, 217, 3480-3496.	5.2	23

#	Article	IF	Citations
19	An <scp>ALS</scp>â€associated <scp>KIF5A</scp> mutant forms oligomers and aggregates and induces neuronal toxicity. Genes To Cells, 2022, 27, 421-435.	1.2	22
20	The nephronophthisis-related gene ift-139 is required for ciliogenesis in Caenorhabditis elegans. Scientific Reports, 2016, 6, 31544.	3.3	18
21	Streptothricin acetyl transferase 2 (Sat2): A dominant selection marker for Caenorhabditis elegans genome editing. PLoS ONE, 2018, 13, e0197128.	2.5	18
22	Immobilization of Caenorhabditis elegans to Analyze Intracellular Transport in Neurons. Journal of Visualized Experiments, 2017, , .	0.3	8
23	Physical parameters describing neuronal cargo transport by kinesin UNC-104. Biophysical Reviews, 2019, 11, 471-482.	3.2	8
24	Analyzing the Impact of Gene Mutations on Axonal Transport in Caenorhabditis Elegans. Methods in Molecular Biology, 2022, 2431, 465-479.	0.9	6
25	Effects of dynein inhibitor on the number of motor proteins transporting synaptic cargos. Biophysical Journal, 2021, 120, 1605-1614.	0.5	5
26	Vital roles of PCNA K165 modification during C. elegans gametogenesis and embryogenesis. DNA Repair, 2019, 82, 102688.	2.8	3
27	Neural and behavioral control in Caenorhabditis elegans by a yellow-lightâ€“activatable caged compound. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	2
28	Japan-US symposium on cytoskeletal motor proteins and their associated proteins. Biophysics and Physicobiology, 2021, 18, 241-243.	1.0	2