

Erika L F Holzbaur

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108
papers

9,308
citations

51
h-index

96
g-index

125
ext. papers

11,496
ext. citations

11.7
avg, IF

7
L-index

#	Paper	IF	Citations
108	Brain-derived autophagosome profiling reveals the engulfment of nucleoid-enriched mitochondrial fragments by basal autophagy in neurons.. <i>Neuron</i> , 2022 ,	13.9	5
107	Live Imaging of Autophagosome Biogenesis and Maturation in Primary Neurons. <i>Neuromethods</i> , 2022 , 23-40	0.4	
106	Proteomic profiling shows mitochondrial nucleoids are autophagy cargo in neurons: implications for neuron maintenance and neurodegenerative disease.. <i>Autophagy</i> , 2022 , 1-3	10.2	
105	ALS-associated KIF5A mutations abolish autoinhibition resulting in a toxic gain of function.. <i>Cell Reports</i> , 2022 , 39, 110598	10.6	4
104	Microtubule dynamics influence the retrograde biased motility of kinesin-4 motor teams in neuronal dendrites. <i>Molecular Biology of the Cell</i> , 2021 , mbce21100480	3.5	1
103	Actin cables and comet tails organize mitochondrial networks in mitosis. <i>Nature</i> , 2021 , 591, 659-664	50.4	23
102	Cega: a single particle segmentation algorithm to identify moving particles in a noisy system. <i>Molecular Biology of the Cell</i> , 2021 , 32, 931-941	3.5	3
101	Cytoskeletal regulation guides neuronal trafficking to effectively supply the synapse. <i>Current Biology</i> , 2021 , 31, R633-R650	6.3	8
100	Sequential dynein effectors regulate axonal autophagosome motility in a maturation-dependent pathway. <i>Journal of Cell Biology</i> , 2021 , 220,	7.3	21
99	Increased LRRK2 kinase activity alters neuronal autophagy by disrupting the axonal transport of autophagosomes. <i>Current Biology</i> , 2021 , 31, 2140-2154.e6	6.3	29
98	Hyperactive LRRK2 kinase impairs the trafficking of axonal autophagosomes. <i>Autophagy</i> , 2021 , 17, 2043-2045	10.5	2
97	ALS- and FTD-associated missense mutations in TBK1 differentially disrupt mitophagy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	14
96	Mitochondrial dynamics: Shaping and remodeling an organelle network. <i>Current Opinion in Cell Biology</i> , 2021 , 68, 28-36	9	26
95	NIX initiates mitochondrial fragmentation via DRP1 to drive epidermal differentiation. <i>Cell Reports</i> , 2021 , 34, 108689	10.6	10
94	Mitochondrial adaptor TRAK2 activates and functionally links opposing kinesin and dynein motors. <i>Nature Communications</i> , 2021 , 12, 4578	17.4	14
93	Structural basis for membrane recruitment of ATG16L1 by WIPI2 in autophagy. <i>ELife</i> , 2021 , 10,	8.9	9
92	Lysosomal degradation of depolarized mitochondria is rate-limiting in OPTN-dependent neuronal mitophagy. <i>Autophagy</i> , 2020 , 16, 962-964	10.2	10

91	Presynaptic Homeostatic Plasticity Staves off Neurodegenerative Pathophysiology up to a Tipping Point. <i>Neuron</i> , 2020 , 107, 6-8	13.9	
90	Degradation of engulfed mitochondria is rate-limiting in Optineurin-mediated mitophagy in neurons. <i>ELife</i> , 2020 , 9,	8.9	41
89	mutations result in both glial and neuronal degeneration in an H-ABC leukodystrophy mouse model. <i>ELife</i> , 2020 , 9,	8.9	7
88	Mentoring in the time of Coronavirus. <i>Molecular Biology of the Cell</i> , 2020 , 31, 2761-2762	3.5	
87	Neuronal autophagy declines substantially with age and is rescued by overexpression of WIPI2. <i>Autophagy</i> , 2020 , 16, 371-372	10.2	8
86	A tunable LIC1-adaptor interaction modulates dynein activity in a cargo-specific manner. <i>Nature Communications</i> , 2020 , 11, 5695	17.4	17
85	ToolBox: Live Imaging of intracellular organelle transport in induced pluripotent stem cell-derived neurons. <i>Traffic</i> , 2020 , 21, 138-155	5.7	15
84	Quality Control in Neurons: Mitophagy and Other Selective Autophagy Mechanisms. <i>Journal of Molecular Biology</i> , 2020 , 432, 240-260	6.5	33
83	Dynein activators and adaptors at a glance. <i>Journal of Cell Science</i> , 2019 , 132,	5.3	86
82	Autophagy and mitophagy in ALS. <i>Neurobiology of Disease</i> , 2019 , 122, 35-40	7.5	78
81	Autophagy in Neurons. <i>Annual Review of Cell and Developmental Biology</i> , 2019 , 35, 477-500	12.6	69
80	Axonal transport: Driving synaptic function. <i>Science</i> , 2019 , 366,	33.3	92
79	Expression of WIPI2B counteracts age-related decline in autophagosome biogenesis in neurons. <i>ELife</i> , 2019 , 8,	8.9	32
78	Vesicular degradation pathways in neurons: at the crossroads of autophagy and endo-lysosomal degradation. <i>Current Opinion in Neurobiology</i> , 2019 , 57, 94-101	7.6	10
77	The adaptor proteins HAP1a and GRIP1 collaborate to activate the kinesin-1 isoform KIF5C. <i>Journal of Cell Science</i> , 2019 , 132,	5.3	20
76	The ADP/ATP translocase drives mitophagy independent of nucleotide exchange. <i>Nature</i> , 2019 , 575, 375-379	50.4	77
75	Imaging the Dynamics of Mitophagy in Live Cells. <i>Methods in Molecular Biology</i> , 2019 , 1880, 601-610	1.4	
74	Kinesin-3 Responds to Local Microtubule Dynamics to Target Synaptic Cargo Delivery to the Presynapse. <i>Current Biology</i> , 2019 , 29, 268-282.e8	6.3	65

73	Dynein activator Hook1 is required for trafficking of BDNF-signaling endosomes in neurons. <i>Journal of Cell Biology</i> , 2019 , 218, 220-233	7.3	43
72	Axonal autophagy: Mini-review for autophagy in the CNS. <i>Neuroscience Letters</i> , 2019 , 697, 17-23	3.3	35
71	A conserved interaction of the dynein light intermediate chain with dynein-dynactin effectors necessary for processivity. <i>Nature Communications</i> , 2018 , 9, 986	17.4	43
70	Mitochondrial-cytoskeletal interactions: dynamic associations that facilitate network function and remodeling. <i>Current Opinion in Physiology</i> , 2018 , 3, 94-100	2.6	33
69	Opposing Kinesin and Myosin-I Motors Drive Membrane Deformation and Tubulation along Engineered Cytoskeletal Networks. <i>Current Biology</i> , 2018 , 28, 236-248.e5	6.3	12
68	Cytoplasmic dynein dysfunction and neurodegenerative disease 2018 , 286-315		4
67	Walking Forward with Kinesin. <i>Trends in Neurosciences</i> , 2018 , 41, 555-556	13.3	12
66	What Doesn't Kill You Makes You Stronger. <i>Developmental Cell</i> , 2018 , 47, 402-403	10.2	1
65	Amyotrophic lateral sclerosis-linked mutations increase the viscosity of liquid-like TDP-43 RNP granules in neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E2466-E2475	11.5	133
64	Angular measurements of the dynein ring reveal a stepping mechanism dependent on a flexible stalk. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E4564-E4573	11.5	22
63	The impact of cytoskeletal organization on the local regulation of neuronal transport. <i>Nature Reviews Neuroscience</i> , 2017 , 18, 585-597	13.5	55
62	CDK5-dependent activation of dynein in the axon initial segment regulates polarized cargo transport in neurons. <i>Traffic</i> , 2017 , 18, 808-824	5.7	29
61	Dynein efficiently navigates the dendritic cytoskeleton to drive the retrograde trafficking of BDNF/TrkB signaling endosomes. <i>Molecular Biology of the Cell</i> , 2017 , 28, 2543-2554	3.5	23
60	Activity-Dependent Regulation of Distinct Transport and Cytoskeletal Remodeling Functions of the Dendritic Kinesin KIF21B. <i>Neuron</i> , 2016 , 92, 857-872	13.9	39
59	Dynamic actin cycling through mitochondrial subpopulations locally regulates the fission-fusion balance within mitochondrial networks. <i>Nature Communications</i> , 2016 , 7, 12886	17.4	111
58	Compartment-Specific Regulation of Autophagy in Primary Neurons. <i>Journal of Neuroscience</i> , 2016 , 36, 5933-45	6.6	168
57	Dynamic recruitment and activation of ALS-associated TBK1 with its target optineurin are required for efficient mitophagy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E3349-58	11.5	183
56	β-Tubulin Tyrosination and CLIP-170 Phosphorylation Regulate the Initiation of Dynein-Driven Transport in Neurons. <i>Cell Reports</i> , 2016 , 14, 2637-52	10.6	113

55	Hook Adaptors Induce Unidirectional Processive Motility by Enhancing the Dynein-Dynactin Interaction. <i>Journal of Biological Chemistry</i> , 2016 , 291, 18239-51	5.4	75
54	The Kinesin KIF21B Regulates Microtubule Dynamics and Is Essential for Neuronal Morphology, Synapse Function, and Learning and Memory. <i>Cell Reports</i> , 2016 , 15, 968-977	10.6	51
53	The Dynamic Localization of Cytoplasmic Dynein in Neurons Is Driven by Kinesin-1. <i>Neuron</i> , 2016 , 90, 1000-15	13.9	67
52	Methods for Assessing Nuclear Rotation and Nuclear Positioning in Developing Skeletal Muscle Cells. <i>Methods in Molecular Biology</i> , 2016 , 1411, 269-90	1.4	2
51	Spatiotemporal dynamics of autophagy receptors in selective mitophagy. <i>Autophagy</i> , 2016 , 12, 1956-1957	6.2	24
50	WHAMM Directs the Arp2/3 Complex to the ER for Autophagosome Biogenesis through an Actin Comet Tail Mechanism. <i>Current Biology</i> , 2015 , 25, 1791-7	6.3	77
49	Stress-Induced CDK5 Activation Disrupts Axonal Transport via Lis1/Ndel1/Dynein. <i>Cell Reports</i> , 2015 , 12, 462-73	10.6	47
48	Autophagosome dynamics in neurodegeneration at a glance. <i>Journal of Cell Science</i> , 2015 , 128, 1259-67	5.3	97
47	Temporal dynamics of PARK2/parkin and OPTN/optineurin recruitment during the mitophagy of damaged mitochondria. <i>Autophagy</i> , 2015 , 11, 422-4	10.2	66
46	Nesprins anchor kinesin-1 motors to the nucleus to drive nuclear distribution in muscle cells. <i>Development (Cambridge)</i> , 2015 , 142, 218-28	6.6	106
45	Optogenetic control of organelle transport using a photocaged chemical inducer of dimerization. <i>Current Biology</i> , 2015 , 25, R407-R408	6.3	59
44	Control of the initiation and termination of kinesin-1-driven transport by myosin-Ic and nonmuscle tropomyosin. <i>Current Biology</i> , 2015 , 25, 523-9	6.3	24
43	Long-distance axonal transport of AAV9 is driven by dynein and kinesin-2 and is trafficked in a highly motile Rab7-positive compartment. <i>Molecular Therapy</i> , 2014 , 22, 554-566	11.7	57
42	Adeno-associated virus serotypes 1, 8, and 9 share conserved mechanisms for anterograde and retrograde axonal transport. <i>Human Gene Therapy</i> , 2014 , 25, 705-20	4.8	89
41	Dynactin functions as both a dynamic tether and brake during dynein-driven motility. <i>Nature Communications</i> , 2014 , 5, 4807	17.4	69
40	Axonal transport: cargo-specific mechanisms of motility and regulation. <i>Neuron</i> , 2014 , 84, 292-309	13.9	402
39	Trim58 degrades Dynein and regulates terminal erythropoiesis. <i>Developmental Cell</i> , 2014 , 30, 688-700	10.2	58
38	Autophagosome biogenesis in primary neurons follows an ordered and spatially regulated pathway. <i>Developmental Cell</i> , 2014 , 30, 71-85	10.2	217

37	Integrated regulation of motor-driven organelle transport by scaffolding proteins. <i>Trends in Cell Biology</i> , 2014 , 24, 564-74	18.3	182
36	The regulation of autophagosome dynamics by huntingtin and HAP1 is disrupted by expression of mutant huntingtin, leading to defective cargo degradation. <i>Journal of Neuroscience</i> , 2014 , 34, 1293-305	6.6	256
35	LC3 binding to the scaffolding protein JIP1 regulates processive dynein-driven transport of autophagosomes. <i>Developmental Cell</i> , 2014 , 29, 577-590	10.2	140
34	Optineurin is an autophagy receptor for damaged mitochondria in parkin-mediated mitophagy that is disrupted by an ALS-linked mutation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E4439-48	11.5	506
33	Local cytoskeletal and organelle interactions impact molecular-motor- driven early endosomal trafficking. <i>Current Biology</i> , 2013 , 23, 1173-80	6.3	90
32	Ordered recruitment of dynactin to the microtubule plus-end is required for efficient initiation of retrograde axonal transport. <i>Journal of Neuroscience</i> , 2013 , 33, 13190-203	6.6	122
31	JIP1 regulates the directionality of APP axonal transport by coordinating kinesin and dynein motors. <i>Journal of Cell Biology</i> , 2013 , 202, 495-508	7.3	171
30	Dynein interacts with the neural cell adhesion molecule (NCAM180) to tether dynamic microtubules and maintain synaptic density in cortical neurons. <i>Journal of Biological Chemistry</i> , 2013 , 288, 27812-24	5.4	31
29	Dynactin is required for transport initiation from the distal axon. <i>Neuron</i> , 2012 , 74, 331-43	13.9	135
28	Synaptic vesicle distribution by conveyor belt. <i>Cell</i> , 2012 , 148, 849-51	56.2	10
27	SnapShot: axonal transport. <i>Cell</i> , 2012 , 149, 950-950.e1	56.2	12
26	Force-dependent detachment of kinesin-2 biases track switching at cytoskeletal filament intersections. <i>Biophysical Journal</i> , 2012 , 103, 48-58	2.9	61
25	Autophagosomes initiate distally and mature during transport toward the cell soma in primary neurons. <i>Journal of Cell Biology</i> , 2012 , 196, 407-17	7.3	429
24	Autophagosome assembly and cargo capture in the distal axon. <i>Autophagy</i> , 2012 , 8, 858-60	10.2	52
23	Force measurements on cargoes in living cells reveal collective dynamics of microtubule motors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 18447-52	11.5	134
22	Huntingtin coordinates the dynein-mediated dynamic positioning of endosomes and lysosomes. <i>Molecular Biology of the Cell</i> , 2011 , 22, 478-92	3.5	83
21	Motor coordination via a tug-of-war mechanism drives bidirectional vesicle transport. <i>Current Biology</i> , 2010 , 20, 697-702	6.3	313
20	Axonal transport: CDKs as traffic signals for motor-ists along the axon?. <i>Current Biology</i> , 2010 , 20, R641-3	6.3	4

19	Coordination of molecular motors: from in vitro assays to intracellular dynamics. <i>Current Opinion in Cell Biology</i> , 2010 , 22, 4-13	9	99
18	3SA1-03 Modeling Cytoskeletal and Motor Dynamics In Vitro : Insights into Motor Function in a Complex Cellular Environment(3SA1 From protein motors to cell motility : regulation, coordination and integration,The 47th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2009 , 49, S17	0	
17	Microtubule plus-end tracking by CLIP-170 requires EB1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 492-7	11.5	157
16	A switch in retrograde signaling from survival to stress in rapid-onset neurodegeneration. <i>Journal of Neuroscience</i> , 2009 , 29, 9903-17	6.6	147
15	Huntingtin as an essential integrator of intracellular vesicular trafficking. <i>Trends in Cell Biology</i> , 2009 , 19, 147-55	18.3	194
14	Differential regulation of dynein and kinesin motor proteins by tau. <i>Science</i> , 2008 , 319, 1086-9	33.3	696
13	Lysosomal proliferation and distal degeneration in motor neurons expressing the G59S mutation in the p150Glued subunit of dynactin. <i>Human Molecular Genetics</i> , 2008 , 17, 1946-55	5.6	68
12	Huntingtin facilitates dynein/dynactin-mediated vesicle transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 10045-50	11.5	221
11	A motor neuron disease-associated mutation in p150Glued perturbs dynactin function and induces protein aggregation. <i>Journal of Cell Biology</i> , 2006 , 172, 733-45	7.3	152
10	Microtubule binding proteins CLIP-170, EB1, and p150Glued form distinct plus-end complexes. <i>FEBS Letters</i> , 2006 , 580, 1327-32	3.8	37
9	Processive bidirectional motion of dynein-dynactin complexes in vitro. <i>Nature Cell Biology</i> , 2006 , 8, 562-70	23.4	238
8	Cytoplasmic dynein nomenclature. <i>Journal of Cell Biology</i> , 2005 , 171, 411-3	7.3	154
7	Mutant dynactin in motor neuron disease. <i>Nature Genetics</i> , 2003 , 33, 455-6	36.3	779
6	The microtubule plus-end proteins EB1 and dynactin have differential effects on microtubule polymerization. <i>Molecular Biology of the Cell</i> , 2003 , 14, 1405-17	3.5	152
5	Sequential dynein effectors regulate axonal autophagosome motility in a maturation-dependent pathway		2
4	Kinesin-4 Motor Teams Effectively Navigate Dendritic Microtubule Arrays Through Track Switching and Regulation of Microtubule Dynamics		1
3	ALS and FTD-associated missense mutations in TBK1 differentially disrupt mitophagy		1
2	Spatiotemporal analysis of axonal autophagosome-lysosome dynamics reveals limited fusion events trigger two-step maturation		1

1 Selective motor activation in organelle transport along axons. *Nature Reviews Molecular Cell Biology*,

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