

Erika L F Holzbaur

List of Publications by Citations

Source: <https://exaly.com/author-pdf/186170/erika-l-f-holzbaur-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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 | Mutant dynactin in motor neuron disease. <i>Nature Genetics</i> , 2003 , 33, 455-6 | 36.3 | 779 |
| 107 | Differential regulation of dynein and kinesin motor proteins by tau. <i>Science</i> , 2008 , 319, 1086-9 | 33.3 | 696 |
| 106 | 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 |
| 105 | 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 |
| 104 | Axonal transport: cargo-specific mechanisms of motility and regulation. <i>Neuron</i> , 2014 , 84, 292-309 | 13.9 | 402 |
| 103 | Motor coordination via a tug-of-war mechanism drives bidirectional vesicle transport. <i>Current Biology</i> , 2010 , 20, 697-702 | 6.3 | 313 |
| 102 | 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 |
| 101 | Processive bidirectional motion of dynein-dynactin complexes in vitro. <i>Nature Cell Biology</i> , 2006 , 8, 562-70 | 7.4 | 238 |
| 100 | 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 |
| 99 | Autophagosome biogenesis in primary neurons follows an ordered and spatially regulated pathway. <i>Developmental Cell</i> , 2014 , 30, 71-85 | 10.2 | 217 |
| 98 | Huntingtin as an essential integrator of intracellular vesicular trafficking. <i>Trends in Cell Biology</i> , 2009 , 19, 147-55 | 18.3 | 194 |
| 97 | 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 |
| 96 | Integrated regulation of motor-driven organelle transport by scaffolding proteins. <i>Trends in Cell Biology</i> , 2014 , 24, 564-74 | 18.3 | 182 |
| 95 | 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 |
| 94 | Compartment-Specific Regulation of Autophagy in Primary Neurons. <i>Journal of Neuroscience</i> , 2016 , 36, 5933-45 | 6.6 | 168 |
| 93 | 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 |
| 92 | Cytoplasmic dynein nomenclature. <i>Journal of Cell Biology</i> , 2005 , 171, 411-3 | 7.3 | 154 |

| | | | |
|----|--|------|-----|
| 91 | 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 |
| 90 | 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 |
| 89 | 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 |
| 88 | 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 |
| 87 | Dynactin is required for transport initiation from the distal axon. <i>Neuron</i> , 2012 , 74, 331-43 | 13.9 | 135 |
| 86 | 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 |
| 85 | 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 |
| 84 | 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 |
| 83 | 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 |
| 82 | 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 |
| 81 | 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 |
| 80 | Coordination of molecular motors: from in vitro assays to intracellular dynamics. <i>Current Opinion in Cell Biology</i> , 2010 , 22, 4-13 | 9 | 99 |
| 79 | Autophagosome dynamics in neurodegeneration at a glance. <i>Journal of Cell Science</i> , 2015 , 128, 1259-67 | 5.3 | 97 |
| 78 | Axonal transport: Driving synaptic function. <i>Science</i> , 2019 , 366, | 33.3 | 92 |
| 77 | Local cytoskeletal and organelle interactions impact molecular-motor-driven early endosomal trafficking. <i>Current Biology</i> , 2013 , 23, 1173-80 | 6.3 | 90 |
| 76 | 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 |
| 75 | Dynein activators and adaptors at a glance. <i>Journal of Cell Science</i> , 2019 , 132, | 5.3 | 86 |
| 74 | 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 |

| | | | |
|----|---|------|----|
| 73 | Autophagy and mitophagy in ALS. <i>Neurobiology of Disease</i> , 2019 , 122, 35-40 | 7.5 | 78 |
| 72 | 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 |
| 71 | The ADP/ATP translocase drives mitophagy independent of nucleotide exchange. <i>Nature</i> , 2019 , 575, 375-379 | 50.4 | 77 |
| 70 | 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 |
| 69 | Autophagy in Neurons. <i>Annual Review of Cell and Developmental Biology</i> , 2019 , 35, 477-500 | 12.6 | 69 |
| 68 | Dynactin functions as both a dynamic tether and brake during dynein-driven motility. <i>Nature Communications</i> , 2014 , 5, 4807 | 17.4 | 69 |
| 67 | 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 |
| 66 | The Dynamic Localization of Cytoplasmic Dynein in Neurons Is Driven by Kinesin-1. <i>Neuron</i> , 2016 , 90, 1000-15 | 13.9 | 67 |
| 65 | 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 |
| 64 | 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 |
| 63 | Force-dependent detachment of kinesin-2 biases track switching at cytoskeletal filament intersections. <i>Biophysical Journal</i> , 2012 , 103, 48-58 | 2.9 | 61 |
| 62 | Optogenetic control of organelle transport using a photocaged chemical inducer of dimerization. <i>Current Biology</i> , 2015 , 25, R407-R408 | 6.3 | 59 |
| 61 | Trim58 degrades Dynein and regulates terminal erythropoiesis. <i>Developmental Cell</i> , 2014 , 30, 688-700 | 10.2 | 58 |
| 60 | 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 |
| 59 | The impact of cytoskeletal organization on the local regulation of neuronal transport. <i>Nature Reviews Neuroscience</i> , 2017 , 18, 585-597 | 13.5 | 55 |
| 58 | Autophagosome assembly and cargo capture in the distal axon. <i>Autophagy</i> , 2012 , 8, 858-60 | 10.2 | 52 |
| 57 | 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 |
| 56 | Stress-Induced CDK5 Activation Disrupts Axonal Transport via Lis1/Ndel1/Dynein. <i>Cell Reports</i> , 2015 , 12, 462-73 | 10.6 | 47 |

| | | | |
|----|--|------|----|
| 55 | 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 |
| 54 | 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 |
| 53 | Degradation of engulfed mitochondria is rate-limiting in Optineurin-mediated mitophagy in neurons. <i>ELife</i> , 2020 , 9, | 8.9 | 41 |
| 52 | 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 |
| 51 | Microtubule binding proteins CLIP-170, EB1, and p150Glued form distinct plus-end complexes. <i>FEBS Letters</i> , 2006 , 580, 1327-32 | 3.8 | 37 |
| 50 | Axonal autophagy: Mini-review for autophagy in the CNS. <i>Neuroscience Letters</i> , 2019 , 697, 17-23 | 3.3 | 35 |
| 49 | Mitochondrial-cytoskeletal interactions: dynamic associations that facilitate network function and remodeling. <i>Current Opinion in Physiology</i> , 2018 , 3, 94-100 | 2.6 | 33 |
| 48 | Quality Control in Neurons: Mitophagy and Other Selective Autophagy Mechanisms. <i>Journal of Molecular Biology</i> , 2020 , 432, 240-260 | 6.5 | 33 |
| 47 | Expression of WIPI2B counteracts age-related decline in autophagosome biogenesis in neurons. <i>ELife</i> , 2019 , 8, | 8.9 | 32 |
| 46 | 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 |
| 45 | 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 |
| 44 | 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 |
| 43 | Mitochondrial dynamics: Shaping and remodeling an organelle network. <i>Current Opinion in Cell Biology</i> , 2021 , 68, 28-36 | 9 | 26 |
| 42 | 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 |
| 41 | Spatiotemporal dynamics of autophagy receptors in selective mitophagy. <i>Autophagy</i> , 2016 , 12, 1956-1957 | 7.2 | 24 |
| 40 | 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 |
| 39 | Actin cables and comet tails organize mitochondrial networks in mitosis. <i>Nature</i> , 2021 , 591, 659-664 | 50.4 | 23 |
| 38 | 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 |

| | | | |
|----|--|------|----|
| 37 | Sequential dynein effectors regulate axonal autophagosome motility in a maturation-dependent pathway. <i>Journal of Cell Biology</i> , 2021 , 220, | 7.3 | 21 |
| 36 | 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 |
| 35 | A tunable LIC1-adaptor interaction modulates dynein activity in a cargo-specific manner. <i>Nature Communications</i> , 2020 , 11, 5695 | 17.4 | 17 |
| 34 | ToolBox: Live Imaging of intracellular organelle transport in induced pluripotent stem cell-derived neurons. <i>Traffic</i> , 2020 , 21, 138-155 | 5.7 | 15 |
| 33 | 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 |
| 32 | Mitochondrial adaptor TRAK2 activates and functionally links opposing kinesin and dynein motors. <i>Nature Communications</i> , 2021 , 12, 4578 | 17.4 | 14 |
| 31 | 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 |
| 30 | Walking Forward with Kinesin. <i>Trends in Neurosciences</i> , 2018 , 41, 555-556 | 13.3 | 12 |
| 29 | SnapShot: axonal transport. <i>Cell</i> , 2012 , 149, 950-950.e1 | 56.2 | 12 |
| 28 | Lysosomal degradation of depolarized mitochondria is rate-limiting in OPTN-dependent neuronal mitophagy. <i>Autophagy</i> , 2020 , 16, 962-964 | 10.2 | 10 |
| 27 | Synaptic vesicle distribution by conveyor belt. <i>Cell</i> , 2012 , 148, 849-51 | 56.2 | 10 |
| 26 | 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 |
| 25 | NIX initiates mitochondrial fragmentation via DRP1 to drive epidermal differentiation. <i>Cell Reports</i> , 2021 , 34, 108689 | 10.6 | 10 |
| 24 | Structural basis for membrane recruitment of ATG16L1 by WIPI2 in autophagy. <i>ELife</i> , 2021 , 10, | 8.9 | 9 |
| 23 | Neuronal autophagy declines substantially with age and is rescued by overexpression of WIPI2. <i>Autophagy</i> , 2020 , 16, 371-372 | 10.2 | 8 |
| 22 | Cytoskeletal regulation guides neuronal trafficking to effectively supply the synapse. <i>Current Biology</i> , 2021 , 31, R633-R650 | 6.3 | 8 |
| 21 | mutations result in both glial and neuronal degeneration in an H-ABC leukodystrophy mouse model. <i>ELife</i> , 2020 , 9, | 8.9 | 7 |
| 20 | Brain-derived autophagosome profiling reveals the engulfment of nucleoid-enriched mitochondrial fragments by basal autophagy in neurons.. <i>Neuron</i> , 2022 , | 13.9 | 5 |

| | | | |
|----|---|-------|---|
| 19 | Cytoplasmic dynein dysfunction and neurodegenerative disease 2018 , 286-315 | | 4 |
| 18 | Axonal transport: CDKs as traffic signals for motor-ists along the axon?. <i>Current Biology</i> , 2010 , 20, R641-R63 | | 4 |
| 17 | ALS-associated KIF5A mutations abolish autoinhibition resulting in a toxic gain of function.. <i>Cell Reports</i> , 2022 , 39, 110598 | 10.6 | 4 |
| 16 | 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 |
| 15 | Selective motor activation in organelle transport along axons. <i>Nature Reviews Molecular Cell Biology</i> , | 48.7 | 3 |
| 14 | Sequential dynein effectors regulate axonal autophagosome motility in a maturation-dependent pathway | | 2 |
| 13 | Hyperactive LRRK2 kinase impairs the trafficking of axonal autophagosomes. <i>Autophagy</i> , 2021 , 17, 2043-2045 | 10.45 | 2 |
| 12 | 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 |
| 11 | 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 |
| 10 | Kinesin-4 Motor Teams Effectively Navigate Dendritic Microtubule Arrays Through Track Switching and Regulation of Microtubule Dynamics | | 1 |
| 9 | ALS and FTD-associated missense mutations in TBK1 differentially disrupt mitophagy | | 1 |
| 8 | What Doesn't Kill You Makes You Stronger. <i>Developmental Cell</i> , 2018 , 47, 402-403 | 10.2 | 1 |
| 7 | Spatiotemporal analysis of axonal autophagosome-lysosome dynamics reveals limited fusion events trigger two-step maturation | | 1 |
| 6 | Presynaptic Homeostatic Plasticity Staves off Neurodegenerative Pathophysiology up to a Tipping Point. <i>Neuron</i> , 2020 , 107, 6-8 | 13.9 | |
| 5 | 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 | |
| 4 | Mentoring in the time of Coronavirus. <i>Molecular Biology of the Cell</i> , 2020 , 31, 2761-2762 | 3.5 | |
| 3 | Imaging the Dynamics of Mitophagy in Live Cells. <i>Methods in Molecular Biology</i> , 2019 , 1880, 601-610 | 1.4 | |
| 2 | Live Imaging of Autophagosome Biogenesis and Maturation in Primary Neurons. <i>Neuromethods</i> , 2022 , 23-40 | 0.4 | |

1 Proteomic profiling shows mitochondrial nucleoids are autophagy cargo in neurons: implications for neuron maintenance and neurodegenerative disease.. *Autophagy*, **2022**, 1-3

10.2