Bingwei Lu

List of Publications by Year
in descending order

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		50170	56606
86	11,495	46	83
papers	citations	h-index	g-index

89	89	89	17365
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	4.3	3,122
2	Mitochondrial pathology and muscle and dopaminergic neuron degeneration caused by inactivation of Drosophila Pink1 is rescued by Parkin. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10793-10798.	3.3	717
3	Pink1 regulates mitochondrial dynamics through interaction with the fission/fusion machinery. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7070-7075.	3.3	485
4	Phosphorylation of 4E-BP by LRRK2 affects the maintenance of dopaminergic neurons in Drosophila. EMBO Journal, 2008, 27, 2432-2443.	3.5	392
5	Pathogenic LRRK2 negatively regulates microRNA-mediated translational repression. Nature, 2010, 466, 637-641.	13.7	353
6	Parkin Suppresses Dopaminergic Neuron-Selective Neurotoxicity Induced by Pael-R in Drosophila. Neuron, 2003, 37, 911-924.	3.8	350
7	Inactivation of Drosophila DJ-1 leads to impairments of oxidative stress response and phosphatidylinositol 3-kinase/Akt signaling. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13670-13675.	3.3	325
8	Parkinson's Diseaseâ€“Associated Kinase PINK1 Regulates Miro Protein Level and Axonal Transport of Mitochondria. PLoS Genetics, 2012, 8, e1002537.	1.5	325
9	PAR-1 Kinase Plays an Initiator Role in a Temporally Ordered Phosphorylation Process that Confers Tau Toxicity in Drosophila. Cell, 2004, 116, 671-682.	13.5	323
10	PAR-1 is a Dishevelled-associated kinase and a positive regulator of Wnt signalling. Nature Cell Biology, 2001, 3, 628-636.	4.6	233
11	Adherens junctions inhibit asymmetric division in the Drosophila epithelium. Nature, 2001, 409, 522-525.	13.7	223
12	Drosophila Models of Neurodegenerative Diseases. Annual Review of Pathology: Mechanisms of Disease, 2009, 4, 315-342.	9.6	204
13	Partner of Numb Colocalizes with Numb during Mitosis and Directs Numb Asymmetric Localization in Drosophila Neural and Muscle Progenitors. Cell, 1998, 95, 225-235.	13.5	191
14	The PINK1/Parkin pathway regulates mitochondrial dynamics and function in mammalian hippocampal and dopaminergic neurons. Human Molecular Genetics, 2011, 20, 3227-3240.	1.4	191
15	PINK1 and Parkin Control Localized Translation of Respiratory Chain Component mRNAs on Mitochondria Outer Membrane. Cell Metabolism, 2015, 21, 95-108.	7.2	175
16	Leucine-rich repeat kinase 2 interacts with Parkin, DJ-1 and PINK-1 in a Drosophila melanogaster model of Parkinson's disease. Human Molecular Genetics, 2009, 18, 4390-4404.	1.4	170
17	Altered ERâ€“mitochondria contact impacts mitochondria calcium homeostasis and contributes to neurodegeneration in vivo in disease models. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8844-E8853.	3.3	166
18	Pink1 regulates the oxidative phosphorylation machinery via mitochondrial fission. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12920-12924.	3.3	163

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19	Polo inhibits progenitor self-renewal and regulates Numb asymmetry by phosphorylating Pon. Nature, 2007, 449, 96-100.	13.7	159
20	HSP induction mediates selective clearance of tau phosphorylated at prolineâ€directed Ser/Thr sites but not KXGS (MARK) sites. FASEB Journal, 2006, 20, 753-755.	0.2	157
21	Mechanisms and roles of mitophagy in neurodegenerative diseases. CNS Neuroscience and Therapeutics, 2019, 25, 859-875.	1.9	145
22	Atypical Cadherins Dachsous and Fat Control Dynamics of Noncentrosomal Microtubules in Planar Cell Polarity. Developmental Cell, 2010, 19, 389-401.	3.1	134
23	Drosophila par-1 is required for oocyte differentiation and microtubule organization. Current Biology, 2001, 11, 75-87.	1.8	131
24	Loss of Axonal Mitochondria Promotes Tau-Mediated Neurodegeneration and Alzheimer's Diseaseâ€"Related Tau Phosphorylation Via PAR-1. PLoS Genetics, 2012, 8, e1002918.	1.5	122
25	Control of Cell Divisions in the Nervous System: Symmetry and Asymmetry. Annual Review of Neuroscience, 2000, 23, 531-556.	5.0	121
26	Flamingo controls the planar polarity of sensory bristles and asymmetric division of sensory organ precursors in Drosophila. Current Biology, 1999, 9, 1247-S1.	1.8	110
27	LRRK2 Kinase Regulates Synaptic Morphology through Distinct Substrates at the Presynaptic and Postsynaptic Compartments of theDrosophilaNeuromuscular Junction. Journal of Neuroscience, 2010, 30, 16959-16969.	1.7	110
28	Reduction of Protein Translation and Activation of Autophagy Protect against PINK1 Pathogenesis in Drosophila melanogaster. PLoS Genetics, 2010, 6, e1001237.	1.5	103
29	Zinc Binding Directly Regulates Tau Toxicity Independent of Tau Hyperphosphorylation. Cell Reports, 2014, 8, 831-842.	2.9	101
30	A critical role for the PAR-1/MARK-tau axis in mediating the toxic effects of AÎ² on synapses and dendritic spines. Human Molecular Genetics, 2012, 21, 1384-1390.	1.4	94
31	Polo Kinase Phosphorylates Miro to Control ER-Mitochondria Contact Sites and Mitochondrial Ca 2+ Homeostasis in Neural Stem Cell Development. Developmental Cell, 2016, 37, 174-189.	3.1	93
32	Modes of Protein Movement that Lead to the Asymmetric Localization of Partner of Numb during Drosophila Neuroblast Division. Molecular Cell, 1999, 4, 883-891.	4.5	90
33	Roles of PINK1, mTORC2, and mitochondria in preserving brain tumor-forming stem cells in a noncanonical Notch signaling pathway. Genes and Development, 2013, 27, 2642-2647.	2.7	86
34	Activation of FoxO by LRRK2 induces expression of proapoptotic proteins and alters survival of postmitotic dopaminergic neuron in Drosophila. Human Molecular Genetics, 2010, 19, 3747-3758.	1.4	84
35	Activation of PAR-1 Kinase and Stimulation of Tau Phosphorylation by Diverse Signals Require the Tumor Suppressor Protein LKB1. Journal of Neuroscience, 2007, 27, 574-581.	1.7	77
36	PAR-1 Kinase Phosphorylates Dlg and Regulates Its Postsynaptic Targeting at the Drosophila Neuromuscular Junction. Neuron, 2007, 53, 201-215.	3.8	74

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37	The Loss of PGAM5 Suppresses the Mitochondrial Degeneration Caused by Inactivation of PINK1 in Drosophila. PLoS Genetics, 2010, 6, e1001229.	1.5	72
38	A single nuclear gene specifies the abundance and extent of RNA editing of a plant mitochondrial transcript. Nucleic Acids Research, 1992, 20, 5699-5703.	6.5	69
39	Regulation of cell growth by Notch signaling and its differential requirement in normal vs. tumor-forming stem cells inDrosophila. Genes and Development, 2011, 25, 2644-2658.	2.7	68
40	Quantitative Assessment of Eye Phenotypes for Functional Genetic Studies UsingDrosophila melanogaster. G3: Genes, Genomes, Genetics, 2016, 6, 1427-1437.	0.8	67
41	Mitochondrial dynamics and neurodegeneration. Current Neurology and Neuroscience Reports, 2009, 9, 212-219.	2.0	65
42	Ubiquitination of ABCE1 by NOT4 in Response to Mitochondrial Damage Links Co-translational Quality Control to PINK1-Directed Mitophagy. Cell Metabolism, 2018, 28, 130-144.e7.	7.2	61
43	Drosophila taoControls Mushroom Body Development and Ethanol-Stimulated Behavior throughpar-1. Journal of Neuroscience, 2011, 31, 1139-1148.	1.7	59
44	Mitochondrial dynamics and mitophagy in Parkinson's disease: disordered cellular power plant becomes a big deal in a major movement disorder. Current Opinion in Neurobiology, 2011, 21, 935-941.	2.0	56
45	MISTERMINATE Mechanistically Links Mitochondrial Dysfunction with Proteostasis Failure. Molecular Cell, 2019, 75, 835-848.e8.	4.5	56
46	Asymmetric cell division: lessons from flies and worms. Current Opinion in Genetics and Development, 1998, 8, 392-399.	1.5	54
47	Grape skin extract improves muscle function and extends lifespan of a Drosophila model of Parkinson's disease through activation of mitophagy. Experimental Gerontology, 2018, 113, 10-17.	1.2	50
48	Phospho-dependent ubiquitination and degradation of PAR-1 regulates synaptic morphology and tau-mediated AÎ² toxicity in Drosophila. Nature Communications, 2012, 3, 1312.	5.8	49
49	Autophagy regulates the apoptosis of bone marrowâ€derived mesenchymal stem cells under hypoxic condition via AMPâ€activated protein kinase/mammalian target of rapamycin pathway. Cell Biology International, 2016, 40, 671-685.	1.4	47
50	Tricornered/NDR kinase signaling mediates PINK1-directed mitochondrial quality control and tissue maintenance. Genes and Development, 2013, 27, 157-162.	2.7	45
51	Quality-control mechanisms targeting translationally stalled and C-terminally extended poly(GR) associated with ALS/FTD. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25104-25115.	3.3	39
52	Interaction of Notch Signaling Modulator Numb with Î±-Adaptin Regulates Endocytosis of Notch Pathway Components and Cell Fate Determination of Neural Stem Cells. Journal of Biological Chemistry, 2012, 287, 17716-17728.	1.6	38
53	The myriad roles of Miro in the nervous system: axonal transport of mitochondria and beyond. Frontiers in Cellular Neuroscience, 2014, 8, 330.	1.8	38
54	PINK1 and Parkin are genetic modifiers for FUS-induced neurodegeneration. Human Molecular Genetics, 2016, 25, ddw310.	1.4	36

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55	Altered MICOS Morphology and Mitochondrial Ion Homeostasis Contribute to Poly(GR) Toxicity Associated with C9-ALS/FTD. Cell Reports, 2020, 32, 107989.	2.9	32
56	Dronc caspase exerts a non-apoptotic function to restrain phospho-Numb-induced ectopic neuroblast formation in Drosophila. Development (Cambridge), 2011, 138, 2185-2196.	1.2	31
57	Recent advances in using Drosophila to model neurodegenerative diseases. Apoptosis: an International Journal on Programmed Cell Death, 2009, 14, 1008-1020.	2.2	28
58	Inefficient quality control of ribosome stalling during APP synthesis generates CAT-tailed species that precipitate hallmarks of Alzheimerâ€™s disease. Acta Neuropathologica Communications, 2021, 9, 169.	2.4	28
59	Mechanisms Linking Mitochondrial Dysfunction and Proteostasis Failure. Trends in Cell Biology, 2020, 30, 317-328.	3.6	27
60	Ischemic Stroke and SARS-CoV-2 Infection: The Bidirectional Pathology and Risk Morbidities. Neurology International, 2022, 14, 391-405.	1.3	25
61	The synaptic function of LRRK2. Biochemical Society Transactions, 2012, 40, 1047-1051.	1.6	24
62	Regulation of reverse electron transfer at mitochondrial complex I by unconventional Notch action in cancer stem cells. Developmental Cell, 2022, 57, 260-276.e9.	3.1	22
63	Mitochondrial Morphogenesis, Distribution, and Parkinson Disease. Journal of Neuropathology and Experimental Neurology, 2009, 68, 953-963.	0.9	21
64	Genetic and genomic studies of pathogenic EXOSC2 mutations in the newly described disease SHRF implicate the autophagy pathway in disease pathogenesis. Human Molecular Genetics, 2020, 29, 541-553.	1.4	21
65	A zebrafish screen reveals Renin-angiotensin system inhibitors as neuroprotective via mitochondrial restoration in dopamine neurons. ELife, 2021, 10, .	2.8	21
66	Molecular chaperones protect against JNK- and Nmnat-regulated axon degeneration in Drosophila. Journal of Cell Science, 2012, 126, 838-49.	1.2	18
67	Closing the gap between clinic and cage: Sensori-motor and cognitive behavioural testing regimens in neurotoxin-induced animal models of Parkinson's disease. Neuroscience and Biobehavioral Reviews, 2012, 36, 2305-2324.	2.9	18
68	The bantam microRNA acts through Numb to exert cell growth control and feedback regulation of Notch in tumor-forming stem cells in the Drosophila brain. PLoS Genetics, 2017, 13, e1006785.	1.5	17
69	RNA metabolism in the pathogenesis of Parkinson×³s disease. Brain Research, 2014, 1584, 105-115.	1.1	16
70	Outcomes of ultrasound-guided percutaneous microwave ablation versus surgical resection for symptomatic large hepatic hemangiomas. International Journal of Hyperthermia, 2019, 36, 631-638.	1.1	15
71	Smaller Sized Inhaled Anesthetics have More Potency on Senescence-Accelerated Prone-8 Mice Compared with Senescence-Resistant-1 Mice. Journal of Alzheimer's Disease, 2014, 39, 29-34.	1.2	9
72	Pantothenate kinase 2 interacts with PINK1 to regulate mitochondrial quality control via acetyl-CoA metabolism. Nature Communications, 2022, 13, 2412.	5.8	8

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73	Cognitive deficits and memory impairments after COVID-19 (Covishield) vaccination. Brain, Behavior, & Immunity - Health, 2022, 22, 100463.	1.3	8
74	dp53 Restrains Ectopic Neural Stem Cell Formation in the Drosophila Brain in a Non-Apoptotic Mechanism Involving Archipelago and Cyclin E. PLoS ONE, 2011, 6, e28098.	1.1	7
75	Synergistic contribution of SMAD signaling blockade and high localized cell density in the differentiation of neuroectoderm from H9 cells. Biochemical and Biophysical Research Communications, 2014, 452, 895-900.	1.0	7
76	Protein products of nonstop mRNA disrupt nucleolar homeostasis. Cell Stress and Chaperones, 2021, 26, 549-561.	1.2	7
77	Targeting PINK1 and MQC in brain tumors. Oncotarget, 2014, 5, 2864-2865.	0.8	4
78	Neuronal Mitophagy: Long-Distance Delivery or Eating Locally?. Current Biology, 2014, 24, R1006-R1008.	1.8	3
79	Putting a PARKINg brake on neurodegeneration. Molecular Psychiatry, 2004, 9, 6-7.	4.1	2
80	RNA Interference Technologies for Understanding and Treating Neurodegenerative Diseases. NeuroMolecular Medicine, 2005, 6, 001-012.	1.8	2
81	Actin-microtubule crosslinker Pod-1 tunes PAR-1 signaling to control synaptic development and tau-mediated synaptic toxicity. Neurobiology of Aging, 2020, 90, 93-98.	1.5	2
82	Kinase Signaling Dysfunction in Parkinson's Disease: A Reverse Genetic Approach inDrosophila. Journal of Neurogenetics, 2012, 26, 158-167.	0.6	1
83	<scp>LRRK</scp> 2 directing <scp>ER</scp> â€toâ€•<scp>G</scp> olgi transport? (<scp>ER</scp>)y <scp>ES</scp> !. EMBO Journal, 2014, 33, 2279-2280.	3.5	1
84	Understanding and treating neurodegeneration: insights from the flies. Age, 2005, 27, 225-239.	3.0	0
85	Miro (Mitochondrial Rho). , 2016, , 1-4.		0
86	Miro (Mitochondrial Rho). , 2018, , 3127-3130.		0