

# Mitochondrial fusion/fission dynamics in neurodegeneration

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Mitochondrial Dysfunction in Lysosomal Storage Disorders. <i>Diseases</i> (Basel, Switzerland), 2016, 4, 31.	1.0	45
2	Neuroprotective effects of the immunomodulatory drug FK506 in a model of HIV1-gp120 neurotoxicity. <i>Journal of Neuroinflammation</i> , 2016, 13, 120.	3.1	34
3	Mitochondrial fission and fusion. <i>Biochemical Society Transactions</i> , 2016, 44, 1725-1735.	1.6	153
4	Alterations of mitochondrial dynamics allow retrograde propagation of locally initiated axonal insults. <i>Scientific Reports</i> , 2016, 6, 32777.	1.6	10
5	OPA1 processing in cell death and disease – the long and short of it. <i>Journal of Cell Science</i> , 2016, 129, 2297-306.	1.2	306
6	Controlling quality and amount of mitochondria by mitophagy: insights into the role of ubiquitination and deubiquitination. <i>Biological Chemistry</i> , 2016, 397, 637-647.	1.2	21
7	A $\beta$ -Induced Drp1 phosphorylation through Akt activation promotes excessive mitochondrial fission leading to neuronal apoptosis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 2820-2834.	1.9	137
8	Mitochondrial dynamics during cell cycling. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2016, 21, 1327-1335.	2.2	193
9	Loss of Msp1p in <i>Schizosaccharomyces pombe</i> induces a ROS-dependent nuclear mutator phenotype that affects mitochondrial fission genes. <i>FEBS Letters</i> , 2016, 590, 3544-3558.	1.3	7
10	Low-level laser therapy for beta amyloid toxicity in rat hippocampus. <i>Neurobiology of Aging</i> , 2017, 49, 165-182.	1.5	111
11	Rapid degradation of mutant SLC25A46 by the ubiquitin-proteasome system results in MFN1/2-mediated hyperfusion of mitochondria. <i>Molecular Biology of the Cell</i> , 2017, 28, 600-612.	0.9	61
12	Pathological consequences of MICU1 mutations on mitochondrial calcium signalling and bioenergetics. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 1009-1017.	1.9	47
13	Metformin restores the mitochondrial network and reverses mitochondrial dysfunction in Down syndrome cells. <i>Human Molecular Genetics</i> , 2017, 26, ddx016.	1.4	70
14	Alpha-synuclein prevents the formation of spherical mitochondria and apoptosis under oxidative stress. <i>Scientific Reports</i> , 2017, 7, 42942.	1.6	68
15	Postmortem studies on mitochondria in schizophrenia. <i>Schizophrenia Research</i> , 2017, 187, 17-25.	1.1	71
16	Connecting mitochondrial dynamics and life-or-death events via Bcl-2 family proteins. <i>Neurochemistry International</i> , 2017, 109, 141-161.	1.9	70
17	Membrane Lipid Replacement for chronic illnesses, aging and cancer using oral glycerolphospholipid formulations with fructooligosaccharides to restore phospholipid function in cellular membranes, organelles, cells and tissues. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 1704-1724.	1.4	49
18	Measuring Mitochondrial Shape with ImageJ. <i>Neuromethods</i> , 2017, , 31-48.	0.2	38

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19	Amplifying mitochondrial function rescues adult neurogenesis in a mouse model of Alzheimer's disease. <i>Neurobiology of Disease</i> , 2017, 102, 113-124.	2.1	31
20	Review: Placental mitochondrial function and structure in gestational disorders. <i>Placenta</i> , 2017, 54, 2-9.	0.7	151
21	Inhibition of Drp1-mediated mitochondrial fission improves mitochondrial dynamics and bioenergetics stimulating neurogenesis in hippocampal progenitor cells from a Down syndrome mouse model. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 3117-3127.	1.8	37
22	Mutations in DNM1L, as in OPA1, result in dominant optic atrophy despite opposite effects on mitochondrial fusion and fission. <i>Brain</i> , 2017, 140, 2586-2596.	3.7	100
23	A membrane-inserted structural model of the yeast mitofusin Fzo1. <i>Scientific Reports</i> , 2017, 7, 10217.	1.6	25
24	<i>in vivo</i> imaging reveals mitophagy independence in the maintenance of axonal mitochondria during normal aging. <i>Aging Cell</i> , 2017, 16, 1180-1190.	3.0	32
25	Sericin improves heart and liver mitochondrial architecture in hypercholesterolaemic rats and maintains pancreatic and adrenal cell biosynthesis. <i>Experimental Cell Research</i> , 2017, 358, 301-314.	1.2	22
26	Developmental neurogenesis in mouse and <i>Xenopus</i> is impaired in the absence of Nosip. <i>Developmental Biology</i> , 2017, 429, 200-212.	0.9	10
27	mitoLUHMES: An Engineered Neuronal Cell Line for the Analysis of the Motility of Mitochondria. <i>Cellular and Molecular Neurobiology</i> , 2017, 37, 1055-1066.	1.7	8
28	Relationship Between $\beta^2$ -Amyloid and Mitochondrial Dynamics. <i>Cellular and Molecular Neurobiology</i> , 2017, 37, 955-968.	1.7	17
29	A Mitocentric View of Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2017, 54, 6046-6060.	1.9	45
30	OPA1 haploinsufficiency induces a BNIP3-dependent decrease in mitophagy in neurons: relevance to Dominant Optic Atrophy. <i>Journal of Neurochemistry</i> , 2017, 140, 485-494.	2.1	29
31	L-3-n-Butylphthalide Protects HSPB8 K141N Mutation-Induced Oxidative Stress by Modulating the Mitochondrial Apoptotic and Nrf2 Pathways. <i>Frontiers in Neuroscience</i> , 2017, 11, 402.	1.4	19
32	The Truncated C-terminal Fragment of Mutant ATXN3 Disrupts Mitochondria Dynamics in Spinocerebellar Ataxia Type 3 Models. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 196.	1.4	33
33	Mitochondrial Dynamics: In Cell Reprogramming as It Is in Cancer. <i>Stem Cells International</i> , 2017, 2017, 1-11.	1.2	30
34	Slower Dynamics and Aged Mitochondria in Sporadic Alzheimer's Disease. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-14.	1.9	95
35	Bovine and murine models highlight novel roles for SLC25A46 in mitochondrial dynamics and metabolism, with implications for human and animal health. <i>PLoS Genetics</i> , 2017, 13, e1006597.	1.5	18
36	ROS as Regulators of Mitochondrial Dynamics in Neurons. <i>Cellular and Molecular Neurobiology</i> , 2018, 38, 995-1007.	1.7	74

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37	Mitochondrial Perturbation Contributing to Cognitive Decline in Streptozotocin-Induced Type 1 Diabetic Rats. <i>Cellular Physiology and Biochemistry</i> , 2018, 46, 1668-1682.	1.1	27
38	Mitochondrial dynamics and protective effects of a mitochondrial division inhibitor, Mdivi-1, in lipopolysaccharide-induced brain damage. <i>Biochemical and Biophysical Research Communications</i> , 2018, 496, 865-871.	1.0	27
39	Protective effect of mitochondrial-targeted antioxidant MitoQ against iron ion <sup>56</sup> Fe radiation induced brain injury in mice. <i>Toxicology and Applied Pharmacology</i> , 2018, 341, 1-7.	1.3	22
40	Nuclear-Encoded Mitochondrial mRNAs: A Powerful Force in Axonal Growth and Development. <i>Neuroscientist</i> , 2018, 24, 142-155.	2.6	18
41	Alpha Lipoamide Ameliorates Motor Deficits and Mitochondrial Dynamics in the Parkinson's Disease Model Induced by 6-Hydroxydopamine. <i>Neurotoxicity Research</i> , 2018, 33, 759-767.	1.3	15
42	<sc>DLP</sc> 1â€dependent mitochondrial fragmentation and redistribution mediate prionâ€associated mitochondrial dysfunction and neuronal death. <i>Aging Cell</i> , 2018, 17, e12693.	3.0	29
43	Regulation of mitochondrial dynamics in astrocytes: Mechanisms, consequences, and unknowns. <i>Glia</i> , 2018, 66, 1213-1234.	2.5	103
44	After Treatment with Methylene Blue is Effective against Delayed Encephalopathy after Acute Carbon Monoxide Poisoning. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2018, 122, 470-480.	1.2	15
45	The ever-growing complexity of the mitochondrial fission machinery. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 355-374.	2.4	157
46	Adaptive effect of sericin on hepatic mitochondrial conformation through its regulation of apoptosis, autophagy and energy maintenance: a proteomics approach. <i>Scientific Reports</i> , 2018, 8, 14943.	1.6	18
47	Mitochondrial Abnormalities in Down Syndrome: Pathogenesis, Effects and Therapeutic Approaches. , 0, , .		0
48	Mitofusin gain and loss of function drive pathogenesis in <i>Drosophila</i> models of <sc>CMT</sc> 2A neuropathy. <i>EMBO Reports</i> , 2018, 19, .	2.0	62
49	The intracellular domain of the leptin receptor prevents mitochondrial depolarization and mitophagy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2018, 1865, 1312-1325.	1.9	7
50	Recurrent nonsevere hypoglycemia exacerbates imbalance of mitochondrial homeostasis leading to synapse injury and cognitive deficit in diabetes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E973-E986.	1.8	33
51	Role of Astrocytic Mitochondria in Limiting Ischemic Brain Injury?. <i>Physiology</i> , 2018, 33, 99-112.	1.6	15
52	Hypoxia-dependent mitochondrial fission regulates endothelial progenitor cell migration, invasion, and tube formation. <i>Korean Journal of Physiology and Pharmacology</i> , 2018, 22, 203.	0.6	21
53	Photobiomodulation Therapy Attenuates Hypoxic-Ischemic Injury in a Neonatal Rat Model. <i>Journal of Molecular Neuroscience</i> , 2018, 65, 514-526.	1.1	39
54	Ketogenic Diet Improves Brain Ischemic Tolerance and Inhibits NLRP3 Inflammasome Activation by Preventing Drp1-Mediated Mitochondrial Fission and Endoplasmic Reticulum Stress. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 86.	1.4	93

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55	Mitochondrial dysfunction in protein conformational disorders. <i>Journal of Genetics</i> , 2018, 97, 703-713.	0.4	1
56	Discrete mitochondrial aberrations in the spinal cord of sporadic ALS patients. <i>Journal of Neuroscience Research</i> , 2018, 96, 1353-1366.	1.3	18
57	Docosahexaenoic Acid Alleviates Oxidative Stress-Based Apoptosis Via Improving Mitochondrial Dynamics in Early Brain Injury After Subarachnoid Hemorrhage. <i>Cellular and Molecular Neurobiology</i> , 2018, 38, 1413-1423.	1.7	55
58	AMPK activation negatively regulates GDAP1, which influences metabolic processes and circadian gene expression in skeletal muscle. <i>Molecular Metabolism</i> , 2018, 16, 12-23.	3.0	17
59	UBIAD1 protects against oxygen-glucose deprivation/reperfusion-induced multiple subcellular organelles injury through PI3K/AKT pathway in N2A cells. <i>Journal of Cellular Physiology</i> , 2018, 233, 7480-7496.	2.0	18
60	DRP-1 functions independently of mitochondrial structural perturbations to facilitate BH3 mimetic-mediated apoptosis. <i>Cell Death Discovery</i> , 2019, 5, 117.	2.0	19
61	Alterations of complex IV in the tissues of a septic mouse model. <i>Mitochondrion</i> , 2019, 49, 89-96.	1.6	7
62	Arsenic trioxide or/and copper sulfate co-exposure induce glandular stomach of chicken injury via destruction of the mitochondrial dynamics and activation of apoptosis as well as autophagy. <i>Ecotoxicology and Environmental Safety</i> , 2019, 185, 109678.	2.9	22
63	Current Progress of Mitochondrial Quality Control Pathways Underlying the Pathogenesis of Parkinson's Disease. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-11.	1.9	27
64	Moringin Pretreatment Inhibits the Expression of Genes Involved in Mitophagy in the Stem Cell of the Human Periodontal Ligament. <i>Molecules</i> , 2019, 24, 3217.	1.7	20
65	A Molecular Perspective on Mitochondrial Membrane Fusion: From the Key Players to Oligomerization and Tethering of Mitofusin. <i>Journal of Membrane Biology</i> , 2019, 252, 293-306.	1.0	12
66	The dual roles of autophagy in gliomagenesis and clinical therapy strategies based on autophagic regulation mechanisms. <i>Biomedicine and Pharmacotherapy</i> , 2019, 120, 109441.	2.5	32
67	Mitochondrial fragmentation and network architecture in degenerative diseases. <i>PLoS ONE</i> , 2019, 14, e0223014.	1.1	23
68	A yeast-based screening assay identifies repurposed drugs that suppress mitochondrial fusion and mtDNA maintenance defects. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	1.2	15
69	A zebrafish model to study small-fiber neuropathy reveals a potential role for GDAP1. <i>Mitochondrion</i> , 2019, 47, 273-281.	1.6	10
70	Targeted OMA1 therapies for cancer. <i>International Journal of Cancer</i> , 2019, 145, 2330-2341.	2.3	26
71	Mitochondrial dynamics and their potential as a therapeutic target. <i>Mitochondrion</i> , 2019, 49, 269-283.	1.6	117
72	Albiflorin ameliorates memory deficits in APP/PS1 transgenic mice via ameliorating mitochondrial dysfunction. <i>Brain Research</i> , 2019, 1719, 113-123.	1.1	32

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73	Mitochondria and the Brain: Bioenergetics and Beyond. <i>Neurotoxicity Research</i> , 2019, 36, 219-238.	1.3	41
74	Disturbances of mitochondrial dynamics in cultured neurons infected with human herpesvirus type 1 and type 2. <i>Journal of NeuroVirology</i> , 2019, 25, 765-782.	1.0	18
75	Disorders of mitochondrial dynamics in peripheral neuropathy: Clues from hereditary neuropathy and diabetes. <i>International Review of Neurobiology</i> , 2019, 145, 127-176.	0.9	31
76	Mitochondria: Ultrastructure, Dynamics, Biogenesis and Main Functions. , 2019, , 3-32.		2
77	The Metabolomic Signature of Opa1 Deficiency in Rat Primary Cortical Neurons Shows Aspartate/Glutamate Depletion and Phospholipids Remodeling. <i>Scientific Reports</i> , 2019, 9, 6107.	1.6	7
78	Mitochondrial Dynamics Impairment in Dexamethasone-Treated Neuronal Cells. <i>Neurochemical Research</i> , 2019, 44, 1567-1581.	1.6	11
79	Downregulation of sonic hedgehog signaling in the hippocampus leads to neuronal apoptosis in high-fat diet-fed mice. <i>Behavioural Brain Research</i> , 2019, 367, 91-100.	1.2	18
80	Synergy in Disruption of Mitochondrial Dynamics by A $\beta$ 2 (1-42) and Glia Maturation Factor (GMF) in SH-SY5Y Cells Is Mediated Through Alterations in Fission and Fusion Proteins. <i>Molecular Neurobiology</i> , 2019, 56, 6964-6975.	1.9	17
81	Saccharopine, a lysine degradation intermediate, is a mitochondrial toxin. <i>Journal of Cell Biology</i> , 2019, 218, 391-392.	2.3	14
82	SIRT3 Regulation of Mitochondrial Quality Control in Neurodegenerative Diseases. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 313.	1.7	73
83	Mitochondria in Developmental and Adult Neurogenesis. <i>Neurotoxicity Research</i> , 2019, 36, 257-267.	1.3	39
84	Mitochondrial quality control as a key determinant of cell survival. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2019, 1866, 575-587.	1.9	97
85	Mitochondrial dynamics, a key executioner in neurodegenerative diseases. <i>Mitochondrion</i> , 2019, 47, 151-173.	1.6	85
86	Mutated SUCLG1 causes mislocalization of SUCLG2 protein, morphological alterations of mitochondria and an early-onset severe neurometabolic disorder. <i>Molecular Genetics and Metabolism</i> , 2019, 126, 43-52.	0.5	20
87	Mitochondrial Protein Turnover Is Critical for Granulosa Cell Proliferation and Differentiation in Antral Follicles. <i>Journal of the Endocrine Society</i> , 2019, 3, 324-339.	0.1	26
88	Louerein B Promotes Axon Regeneration by Inhibiting Endoplasmic Reticulum Stress: Induced Mitochondrial Dysfunction and Regulating the Akt/GSK-3 $\beta$ Pathway after Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2019, 36, 1949-1964.	1.7	23
89	Proteomic Analysis and Biochemical Correlates of Mitochondrial Dysfunction after Low-Intensity Primary Blast Exposure. <i>Journal of Neurotrauma</i> , 2019, 36, 1591-1605.	1.7	24
90	Mitochondrial toxicity of nanomaterials. <i>Science of the Total Environment</i> , 2020, 702, 134994.	3.9	39

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91	Dietary Mitophagy Enhancer: A Strategy for Healthy Brain Aging?. <i>Antioxidants</i> , 2020, 9, 932.	2.2	35
92	The Influence of Intranasally Administered Insulin and C-peptide on AMP-Activated Protein Kinase Activity, Mitochondrial Dynamics and Apoptosis Markers in the Hypothalamus of Rats with Streptozotocin-Induced Diabetes. <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2020, 56, 207-217.	0.2	3
93	Neuropathic Pain: the Dysfunction of Drp1, Mitochondria, and ROS Homeostasis. <i>Neurotoxicity Research</i> , 2020, 38, 553-563.	1.3	39
94	p62-Nrf2-p62 Mitophagy Regulatory Loop as a Target for Preventive Therapy of Neurodegenerative Diseases. <i>Brain Sciences</i> , 2020, 10, 847.	1.1	27
95	Transcriptomic Regulations Underlying Pair-bond Formation and Maintenance in the Socially Monogamous Male and Female Prairie Vole. <i>Biological Psychiatry</i> , 2020, 91, 141-151.	0.7	14
96	Mitochondrial Miro GTPases coordinate mitochondrial and peroxisomal dynamics. <i>Small GTPases</i> , 2021, 12, 372-398.	0.7	12
97	Oxidative stress and mitochondrial dysfunction involved in ammonia-induced nephrocyte necroptosis in chickens. <i>Ecotoxicology and Environmental Safety</i> , 2020, 203, 110974.	2.9	72
98	Building a Bridge Between NMDAR-Mediated Excitotoxicity and Mitochondrial Dysfunction in Chronic and Acute Diseases. <i>Cellular and Molecular Neurobiology</i> , 2021, 41, 1413-1430.	1.7	41
99	From Synaptic Dysfunction to Neuroprotective Strategies in Genetic Parkinson's Disease: Lessons From LRRK2. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 158.	1.8	15
100	Cannabinoid CB1 receptor agonist ACEA alleviates brain ischemia/reperfusion injury via CB1-Drp1 pathway. <i>Cell Death Discovery</i> , 2020, 6, 102.	2.0	19
101	Insights into Disease-Associated Tau Impact on Mitochondria. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6344.	1.8	50
102	Improving Brightness and Stability of Si-Rhodamine for Super-Resolution Imaging of Mitochondria in Living Cells. <i>Analytical Chemistry</i> , 2020, 92, 12137-12144.	3.2	17
103	Herpes Simplex Virus 1 ICP34.5 Alters Mitochondrial Dynamics in Neurons. <i>Journal of Virology</i> , 2020, 94, .	1.5	8
104	Knocking-out the Siah2 E3 ubiquitin ligase prevents mitochondrial NCX3 degradation, regulates mitochondrial fission and fusion, and restores mitochondrial function in hypoxic neurons. <i>Cell Communication and Signaling</i> , 2020, 18, 42.	2.7	12
105	Probing the characteristics and biofunctional effects of disease-affected cells and drug response via machine learning applications. <i>Critical Reviews in Biotechnology</i> , 2020, 40, 951-977.	5.1	7
106	The Role of Mitochondria in Cardiovascular Diseases. <i>Biology</i> , 2020, 9, 137.	1.3	40
107	SSADH Variants Increase Susceptibility of U87 Cells to Mitochondrial Pro-Oxidant Insult. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4374.	1.8	3
108	P73 C-terminus is dispensable for multiciliogenesis. <i>Cell Cycle</i> , 2020, 19, 1833-1845.	1.3	7

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109	Enhanced Mitophagy Activity in Prion-Infected Cultured Cells and Prion-Infected Experimental Mice via a Pink1/Parkin-Dependent Mitophagy Pathway. <i>ACS Chemical Neuroscience</i> , 2020, 11, 814-829.	1.7	21
110	Mdivi-1 attenuates lipopolysaccharide-induced acute lung injury by inhibiting MAPKs, oxidative stress and apoptosis. <i>Pulmonary Pharmacology and Therapeutics</i> , 2020, 62, 101918.	1.1	32
111	Mitochondrial Protection by PARP Inhibition. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2767.	1.8	21
112	Mitochondria-Targeted Therapeutics for Alzheimer's Disease: The Good, the Bad, the Potential. <i>Antioxidants and Redox Signaling</i> , 2021, 34, 611-630.	2.5	16
113	Isoliquiritigenin Reduces LPS-Induced Inflammation by Preventing Mitochondrial Fission in BV-2 Microglial Cells. <i>Inflammation</i> , 2021, 44, 714-724.	1.7	14
114	PPAR $\beta$ /PGC1 $\alpha$ signaling as a potential therapeutic target for mitochondrial biogenesis in neurodegenerative disorders. , 2021, 219, 107705.		77
115	Mitochondrial dysfunction in schizophrenia: With a focus on postmortem studies. <i>Mitochondrion</i> , 2021, 56, 91-101.	1.6	36
116	Mitochondria: Ultrastructure, dynamics, biogenesis, and main functions. , 2021, , 3-34.		0
117	Phenoxythiophene sulfonamide compound B355252 protects neuronal cells against glutamate-induced excitotoxicity by attenuating mitochondrial fission and the nuclear translocation of AIF. <i>Experimental and Therapeutic Medicine</i> , 2021, 21, 221.	0.8	3
118	Intrinsic Mechanisms Regulating Neuronal Migration in the Postnatal Brain. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 620379.	1.8	23
119	Role of mitochondria-associated endoplasmic reticulum membrane (MAMs) interactions and calcium exchange in the development of type 2 diabetes. <i>International Review of Cell and Molecular Biology</i> , 2021, 363, 169-202.	1.6	15
120	Natural Antioxidants Improve the Vulnerability of Cardiomyocytes and Vascular Endothelial Cells under Stress Conditions: A Focus on Mitochondrial Quality Control. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-27.	1.9	20
121	Mitochondrial Dysfunction and Oxidative Stress in Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 617588.	1.7	236
122	Dominant mutations in MIEF1 affect mitochondrial dynamics and cause a singular late onset optic neuropathy. <i>Molecular Neurodegeneration</i> , 2021, 16, 12.	4.4	13
124	Cadmium disrupts mitochondrial distribution and activates excessive mitochondrial fission by elevating cytosolic calcium independent of MCU-mediated mitochondrial calcium uptake in its neurotoxicity. <i>Toxicology</i> , 2021, 453, 152726.	2.0	20
125	IFN $\beta$ rescues neurodegeneration by regulating mitochondrial fission via STAT5, PGAM5, and Drp1. <i>EMBO Journal</i> , 2021, 40, e106868.	3.5	26
126	Methamphetamine exposure induces neuronal programmed necrosis by activating the receptor-interacting protein kinase 3-related signalling pathway. <i>FASEB Journal</i> , 2021, 35, e21561.	0.2	10
127	The Multifaceted Roles of Zinc in Neuronal Mitochondrial Dysfunction. <i>Biomedicines</i> , 2021, 9, 489.	1.4	19



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128	Mitochondrial Fusion Protein Mfn2 and Its Role in Heart Failure. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 681237.	1.6	23
129	Mitochondrial fusion and fission: The fine-tune balance for cellular homeostasis. <i>FASEB Journal</i> , 2021, 35, e21620.	0.2	148
130	Axotomy Induces Drp1-Dependent Fragmentation of Axonal Mitochondria. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 668670.	1.4	7
131	Metabolic Control of Smoldering Neuroinflammation. <i>Frontiers in Immunology</i> , 2021, 12, 705920.	2.2	19
132	A link between protein acetylation and mitochondrial dynamics under energy metabolism: A comprehensive overview. <i>Journal of Cellular Physiology</i> , 2021, 236, 7926-7937.	2.0	4
133	Melatonin reshapes the mitochondrial network and promotes intercellular mitochondrial transfer via tunneling nanotubes after ischemic-like injury in hippocampal HT22 cells. <i>Journal of Pineal Research</i> , 2021, 71, e12747.	3.4	56
134	GDAP1 mutations are frequent among Brazilian patients with autosomal recessive axonal Charcot-Marie-Tooth disease. <i>Neuromuscular Disorders</i> , 2021, 31, 505-511.	0.3	5
135	Recent advances in cellular effects of fluoride: an update on its signalling pathway and targeted therapeutic approaches. <i>Molecular Biology Reports</i> , 2021, 48, 5661-5673.	1.0	16
136	S100B/RAGE/Ceramide signaling pathway is involved in sepsis-associated encephalopathy. <i>Life Sciences</i> , 2021, 277, 119490.	2.0	15
137	Mitochondrial dysfunction: A potential target for Alzheimer's disease intervention and treatment. <i>Drug Discovery Today</i> , 2021, 26, 1991-2002.	3.2	8
138	Regulation of mitochondrial dynamics in skin: role in pathophysiology. <i>International Journal of Dermatology</i> , 2022, 61, 541-547.	0.5	3
139	Pathogenic DNMI1 Variant (1085G>A) Linked to Infantile Progressive Neurological Disorder: Evidence of Maternal Transmission by Germline Mosaicism and Influence of a Contemporary in cis Variant (1535T>C). <i>Genes</i> , 2021, 12, 1295.	1.0	4
140	Mitochondrial Dysfunction in Vascular Wall Cells and Its Role in Atherosclerosis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8990.	1.8	38
141	<i>Spilanthes acmella</i> Murr. ameliorates chronic stress through improving mitochondrial function in chronic restraint stress rats. <i>Neurochemistry International</i> , 2021, 148, 105083.	1.9	7
142	Mitochondria in the Cerebral and Cerebellar Cortex in Alzheimer's Disease, Target for a Therapeutic Approach. , 0, , .		0
143	MFN2 Deficiency Impairs Mitochondrial Transport and Downregulates Motor Protein Expression in Human Spinal Motor Neurons. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 727552.	1.4	13
144	Upregulation of mitochondrial dynamics is responsible for osteogenic differentiation of mesenchymal stem cells cultured on self-mineralized collagen membranes. <i>Acta Biomaterialia</i> , 2021, 136, 137-146.	4.1	15
145	Copper exposure induces mitochondrial dynamic disorder and oxidative stress via mitochondrial unfolded protein response in pig fundic gland. <i>Ecotoxicology and Environmental Safety</i> , 2021, 223, 112587.	2.9	15

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146	Decreased mitochondrial DNA copy number in nerve cells and the hippocampus during nicotine exposure is mediated by autophagy. <i>Ecotoxicology and Environmental Safety</i> , 2021, 226, 112831.	2.9	15
147	CHIP protects against MPP <sup>+</sup> /MPTP-induced damage by regulating Drp1 in two models of Parkinson's disease. <i>Aging</i> , 2021, 13, 1458-1472.	1.4	12
148	Prospective Advances in Exercise-Induced Autophagy on Health. , 2021, , 223-245.		0
149	Gene therapies for axonal neuropathies: Available strategies, successes to date, and what to target next. <i>Brain Research</i> , 2020, 1732, 146683.	1.1	10
150	WBSCR16 Is a Guanine Nucleotide Exchange Factor Important for Mitochondrial Fusion. <i>Cell Reports</i> , 2017, 20, 923-934.	2.9	16
152	Mutations in the m-AAA proteases AFG3L2 and SPG7 are causing isolated dominant optic atrophy. <i>Neurology: Genetics</i> , 2020, 6, e428.	0.9	31
153	Syntaxilin-Mediated Docking of Mitochondria at the Growth Cone Is Dispensable for Axon Elongation <i>In Vivo</i> . <i>ENeuro</i> , 2019, 6, ENEURO.0026-19.2019.	0.9	8
154	Surgery/Anesthesia disturbs mitochondrial fission/fusion dynamics in the brain of aged mice with postoperative delirium. <i>Aging</i> , 2020, 12, 844-865.	1.4	28
155	PKM2 suppresses osteogenesis and facilitates adipogenesis by regulating $\beta$ -catenin signaling and mitochondrial fusion and fission. <i>Aging</i> , 2020, 12, 3976-3992.	1.4	34
156	Effects of treadmill exercise on the regulatory mechanisms of mitochondrial dynamics and oxidative stress in the brains of high-fat diet fed rats. <i>Journal of Exercise Nutrition &amp; Biochemistry</i> , 2019, 23, 28-35.	1.3	10
157	A role for the GDAP1 gene in the molecular pathogenesis of Charcot-Marie-Tooth disease. <i>Acta Neurobiologiae Experimentalis</i> , 2018, 78, 1-13.	0.4	28
158	The Role of Mitochondrial Impairment in Alzheimer's Disease Neurodegeneration: The Tau Connection. <i>Current Neuropharmacology</i> , 2020, 18, 1076-1091.	1.4	25
159	Exploiting Common Aspects of Obesity and Alzheimer's Disease. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 602360.	1.0	21
160	Neurotrophins induce fission of mitochondria along embryonic sensory axons. <i>ELife</i> , 2019, 8, .	2.8	22
161	The function of Scox in glial cells is essential for locomotive ability in <i>Drosophila</i> . <i>Scientific Reports</i> , 2021, 11, 21207.	1.6	4
162	The Protective Role of E-64d in Hippocampal Excitotoxic Neuronal Injury Induced by Glutamate in HT22 Hippocampal Neuronal Cells. <i>Neural Plasticity</i> , 2021, 2021, 1-14.	1.0	9
164	O-GlcNAc Transferase (OGT) Protects Cerebral Neurons from Death During Ischemia/Reperfusion (I/R) Injury by Modulating Drp1 in Mice. <i>NeuroMolecular Medicine</i> , 2022, 24, 299-310.	1.8	8
165	Reactive Oxygen Species Affects on Mitochondrial Dynamicity Which May Leads to Parkinson's Disease. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
166	Momordica charantia nanoparticles promote mitochondria biogenesis in the pancreas of diabetic-induced rats: gene expression study. <i>Egyptian Journal of Medical Human Genetics</i> , 2021, 22, .	0.5	6
167	Mitochondrial iron metabolism and neurodegenerative diseases. <i>NeuroToxicology</i> , 2022, 88, 88-101.	1.4	34
168	The roles of mitochondrial dynamics and NLRP3 inflammasomes in the pathogenesis of retinal light damage. <i>Annals of the New York Academy of Sciences</i> , 2022, 1508, 78-91.	1.8	13
169	TLR4 Associated Signaling Disrupters as a New Means to Overcome HERV-W Envelope-Mediated Myelination Deficits. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 777542.	1.8	6
170	Fundamentals of Membrane Lipid Replacement: A Natural Medicine Approach to Repairing Cellular Membranes and Reducing Fatigue, Pain, and Other Symptoms While Restoring Function in Chronic Illnesses and Aging. <i>Membranes</i> , 2021, 11, 944.	1.4	9
172	Nanotechnology-Based Drug Delivery Strategies to Repair the Mitochondrial Function in Neuroinflammatory and Neurodegenerative Diseases. <i>Pharmaceutics</i> , 2021, 13, 2055.	2.0	12
173	Ganoderic acid improves 5-fluorouracil-induced cognitive dysfunction in mice. <i>Food and Function</i> , 2021, 12, 12325-12337.	2.1	11
174	SS31 Ameliorates Podocyte Injury via Inhibiting OMA1-Mediated Hydrolysis of OPA1 in Diabetic Kidney Disease. <i>Frontiers in Pharmacology</i> , 2022, 12, .	1.6	7
175	Baicalin attenuates amyloid $\beta$ oligomers induced memory deficits and mitochondria fragmentation through regulation of PDE-PKA-Drp1 signalling. <i>Psychopharmacology</i> , 2022, 239, 851-865.	1.5	14
176	Melatonin relieves 2,2,4,4-tetrabromodiphenyl ether (BDE-47)-induced apoptosis and mitochondrial dysfunction through the AMPK-Sirt1-PGC-1 $\beta$ axis in fish kidney cells (CIK). <i>Ecotoxicology and Environmental Safety</i> , 2022, 232, 113276.	2.9	16
177	Mitochondrial dysfunction in protein conformational disorders. <i>Journal of Genetics</i> , 2018, 97, 703-713.	0.4	1
178	$\beta$ -Lactolin improves mitochondrial function in $\text{A}\beta$ -treated mouse hippocampal neuronal cell line and a human iPSC-derived neuronal cell model of Alzheimer's disease. <i>FASEB Journal</i> , 2022, 36, e22277.	0.2	1
179	Chemotherapy Resistance: Role of Mitochondrial and Autophagic Components. <i>Cancers</i> , 2022, 14, 1462.	1.7	29
180	Imaging and analysis of neuronal mitochondria in murine acute brain slices. <i>Journal of Neuroscience Methods</i> , 2022, 372, 109558.	1.3	2
181	Targeting mitochondria in dermatological therapy: beyond oxidative damage and skin aging. <i>Expert Opinion on Therapeutic Targets</i> , 2022, 26, 233-259.	1.5	8
182	$\beta$ -cell mitochondria in diabetes mellitus: a missing puzzle piece in the generation of hPSC-derived pancreatic $\beta$ -cells?. <i>Journal of Translational Medicine</i> , 2022, 20, 163.	1.8	5
183	Mitochondrial Deficits With Neural and Social Damage in Early-Stage Alzheimer's Disease Model Mice. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 748388.	1.7	7
184	Drp1 SUMO/deSUMOylation by Senp5 isoforms influences ER tubulation and mitochondrial dynamics to regulate brain development. <i>IScience</i> , 2021, 24, 103484.	1.9	14

#	ARTICLE	IF	CITATIONS
185	A New Insight into an Alternative Therapeutic Approach to Restore Redox Homeostasis and Functional Mitochondria in Neurodegenerative Diseases. <i>Antioxidants</i> , 2022, 11, 7.	2.2	5
186	Salidroside, a phenyl ethanol glycoside from <i>Rhodiola crenulata</i> , orchestrates hypoxic mitochondrial dynamics homeostasis by stimulating Sirt1/p53/Drp1 signaling. <i>Journal of Ethnopharmacology</i> , 2022, 293, 115278.	2.0	20
188	Effects of Epigenetic Modification of PGC-1 $\beta$ by a Chemical Chaperon on Mitochondria Biogenesis and Visual Function in Retinitis Pigmentosa. <i>Cells</i> , 2022, 11, 1497.	1.8	7
189	RhoA Signaling in Neurodegenerative Diseases. <i>Cells</i> , 2022, 11, 1520.	1.8	38
190	Role of Mitochondrial Dynamics in Cocaine's Neurotoxicity. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5418.	1.8	8
191	Novel roles of RTN4 and CLIMP-63 in regulating mitochondrial structure, bioenergetics and apoptosis. <i>Cell Death and Disease</i> , 2022, 13, 436.	2.7	7
192	Albiflorin Alleviates Ox-LDL-Induced Human Umbilical Vein Endothelial Cell Injury through IRAK1/TAK1 Pathway. <i>BioMed Research International</i> , 2022, 2022, 1-10.	0.9	2
193	Update of treatment for Gaucher disease. <i>European Journal of Pharmacology</i> , 2022, 926, 175023.	1.7	9
194	Long-term Copper Exposure Induces Mitochondrial Dynamics Disorder and Mitophagy in the Cerebrum of Pigs. <i>Biological Trace Element Research</i> , 2023, 201, 1197-1204.	1.9	6
195	The Role of Mitochondrial Quality Control in Cognitive Dysfunction in Diabetes. <i>Neurochemical Research</i> , 2022, 47, 2158-2172.	1.6	8
196	Plant mitochondrial FMT and its mammalian homolog CLUH controls development and behavior in <i>Arabidopsis</i> and locomotion in mice. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, .	2.4	2
197	Dbdpe and Zno Nps Synergistically Induce Neurotoxicity of $\text{ÅSk-N-Sh}$ Cells and Activate Mitochondrial Apoptosis Signaling Pathway and Nrf2-Mediated Antioxidant Pathway. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
198	Selenium Alleviates Cerebral Ischemia/Reperfusion Injury by Regulating Oxidative Stress, Mitochondrial Fusion and Ferroptosis. <i>Neurochemical Research</i> , 2022, 47, 2992-3002.	1.6	33
199	Enriched Environment-Induced Neuroprotection against Cerebral Ischemia-Reperfusion Injury Might Be Mediated via Enhancing Autophagy Flux and Mitophagy Flux. <i>Mediators of Inflammation</i> , 2022, 2022, 1-14.	1.4	6
200	Evaluation of Image Classification for Quantifying Mitochondrial Morphology using Deep Learning. <i>Endocrine, Metabolic and Immune Disorders - Drug Targets</i> , 2022, 22, .	0.6	0
201	Mortalin/Hspa9 involvement and therapeutic perspective in Parkinson's disease. <i>Neural Regeneration Research</i> , 2023, 18, 293.	1.6	4
202	Sinisan alleviates depression-like behaviors by regulating mitochondrial function and synaptic plasticity in maternal separation rats. <i>Phytomedicine</i> , 2022, 106, 154395.	2.3	17
203	Therapeutic strategies in ischemic cardiomyopathy: Focus on mitochondrial quality surveillance. <i>EBioMedicine</i> , 2022, 84, 104260.	2.7	36

#	ARTICLE	IF	CITATIONS
204	DBDPE and ZnO NPs synergistically induce neurotoxicity of SK-N-SH cells and activate mitochondrial apoptosis signaling pathway and Nrf2-mediated antioxidant pathway. <i>Journal of Hazardous Materials</i> , 2023, 441, 129872.	6.5	6
206	Lead Disrupts Mitochondrial Morphology and Function through Induction of ER Stress in Model of Neurotoxicity. <i>International Journal of Molecular Sciences</i> , 2022, 23, 11435.	1.8	1
207	Downregulation of SIRT3 Aggravates Lung Ischemia Reperfusion Injury by Increasing Mitochondrial Fission and Oxidative Stress through HIF-1 $\alpha$ -Dependent Mechanisms. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-19.	1.9	6
208	Cdk5 Promotes Mitochondrial Fission via Drp1 Phosphorylation at S616 in Chronic Ethanol Exposureâ€“Induced Cognitive Impairment. <i>Molecular Neurobiology</i> , 2022, 59, 7075-7094.	1.9	12
209	<i>Organ Systems.</i> , 2022, , 225-413.		0
210	Apigenin attenuates LPS-induced neurotoxicity and cognitive impairment in mice via promoting mitochondrial fusion/mitophagy: role of SIRT3/PINK1/Parkin pathway. <i>Psychopharmacology</i> , 2022, 239, 3903-3917.	1.5	11
211	Proteomic Profiling Reveals Increased Glycolysis, Decreased Oxidoreductase Activity and Fatty Acid Degradation in Skin Derived Fibroblasts from LHON Patients Bearing m.G11778A. <i>Biomolecules</i> , 2022, 12, 1568.	1.8	1
212	Long-term cadmium exposure impairs cognitive function by activating Inc-Gm10532/m6A/FIS1 axis-mediated mitochondrial fission and dysfunction. <i>Science of the Total Environment</i> , 2023, 858, 159950.	3.9	10
213	The role of mitochondrial fission in intervertebral disc degeneration. <i>Osteoarthritis and Cartilage</i> , 2023, 31, 158-166.	0.6	6
214	The role of Mitochondrial Fission Proteins in Mitochondrial Dynamics in Kidney Disease. <i>International Journal of Molecular Sciences</i> , 2022, 23, 14725.	1.8	15
215	PGC-1 $\alpha$ Affects Epileptic Seizures by Regulating Mitochondrial Fusion in Epileptic Rats. <i>Neurochemical Research</i> , 2023, 48, 1361-1369.	1.6	2
216	Mitochondrial quality control in the brain: The physiological and pathological roles. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	9
217	Teriflunomide as a therapeutic means for myelin repair. <i>Journal of Neuroinflammation</i> , 2023, 20, .	3.1	4
218	Therapeutic targeting of mitochondriaâ€“proteostasis axis by antioxidant polysaccharides in neurodegeneration. <i>Advances in Protein Chemistry and Structural Biology</i> , 2023, , 385-413.	1.0	2
219	Mitochondria in health, disease, and aging. <i>Physiological Reviews</i> , 2023, 103, 2349-2422.	13.1	56
220	Inhibition of Drp1-dependent mitochondrial fission by natural compounds as a therapeutic strategy for organ injuries. <i>Pharmacological Research</i> , 2023, 188, 106672.	3.1	3
221	TiO <sub>2</sub> nanotubes induce early mitochondrial fission in BMMSCs and promote osseointegration. <i>Biomedical Materials (Bristol)</i> , 2023, 18, 025008.	1.7	3
222	SAG, a sonic hedgehog signaling agonist, alleviates anxiety behavior in high-fat diet-fed mice. <i>Brain Research Bulletin</i> , 2023, 195, 25-36.	1.4	0

#	ARTICLE	IF	CITATIONS
223	Targeting Mitochondrial Dysfunction in Neurodegenerative Diseases: Expanding the Therapeutic Approaches by Plant-Derived Natural Products. <i>Pharmaceuticals</i> , 2023, 16, 277.	1.7	6
224	Honokiol attenuates mitochondrial fission and cell apoptosis by activating Sirt3 in intracerebral hemorrhage. <i>Chinese Medical Journal</i> , 2023, 136, 719-731.	0.9	3
225	Evaluating the association between DNM1L variants and Parkinson's disease in the Chinese population. <i>Frontiers in Neurology</i> , 0, 14, .	1.1	0
226	Disorder of Golgi Apparatus Precedes Anoxia-Induced Pathology of Mitochondria. <i>International Journal of Molecular Sciences</i> , 2023, 24, 4432.	1.8	0
227	The role of mitochondrial dynamics imbalance in hexavalent chromium-induced apoptosis and autophagy in rat testis. <i>Chemico-Biological Interactions</i> , 2023, 374, 110424.	1.7	3
228	Insight into mitochondrial dysfunction mediated by clozapine-induced inhibition of PGRMC1 in PC12 cells. <i>Toxicology</i> , 2023, 491, 153515.	2.0	1
232	Mitochondria as central hubs in synaptic modulation. <i>Cellular and Molecular Life Sciences</i> , 2023, 80, .	2.4	5