Database search strategy- Mitophagy links oxidative stress conditions and neurodegenerative diseases

Serial No.	Article title	Eligibility criteria	Keywords/ Key terms	Publication date/Year	Database	Publishing language
1.	Getting ready for building: signaling and autophagosome biogenesis	A review that discusses recent progress in our understanding of autophagosome biogenesis	Atgs, autophagosome, biogenesis, autophagy, MTOR signaling	July 15, 2014	Google scholar	English
2.	Mitochondrial dysfunction and oxidative stress in aging and neurodegenerative disease	A report that discusses age-dependent onset and progressive course of these neurodegenerative diseases	Neurodegenerative diseases, Parkinson's disease (PD), Huntington's disease (HD), amyotrophic lateral sclerosis (ALS), Alzheimer's disease (AD) and progressive supranuclear palsy (PSP), oxidative damage, superoxide dismutase (SOD1)	2000	Google scholar	English
3.	Cannabinoids for treatment of Alzheimer's disease: Moving toward the clinic	A review that discusses the polyvalent properties of cannabinoid compounds for the treatment of AD, which together encourage progress toward a clinical trial.	Alzheimer's disease (AD), cannabinoid, β-amyloid peptide, oxidative stress	March 5, 2014	Google scholar	English
4.	Nitric oxide‐induced mitochondrial fission is regulated by dynamin‐related GTPases in neurons	An article that discusses persistent mitochondrial fission may play a causal role in NO-mediated neurotoxicity	Mitochondria, nitric oxide (NO), autophagy, Dynamin related protein 1, mitochondrial fission	July 27, 2006	Google scholar	English
5.	Potential compensatory responses through autophagic/lysosomal pathways in neurodegenerative diseases	An article that discusses positive modulation of protein degradation processes represents a strategy to promote clearance of toxic accumulations and to slow the synaptopathogenesis	Protein degradation, protein accumulation, age-related neurodegenerative disorders, synaptopathogenesis	March 22, 2006	Google scholar	English
6.	Lipid peroxidation and protein oxidation in Alzheimer's disease brain: potential causes and consequences involving amyloid β-peptide-associated free radical oxidative	A review summarizes current knowledge on phospholipid peroxidation and protein oxidation in AD brain, one potential cause of this oxidative stress, and consequences of Aβ-induced lipid peroxidation and protein oxidation in AD brain.	Amyloid β-peptide (Aβ), Alzheimer's disease (AD), free radical oxidative stress, phospholipid peroxidation, oxidation, lipid peroxidation	June 1, 2002	Google scholar	English

	stress 1, 2					
7.	Pathways to mitochondrial dysfunction in ALS pathogenesis	An article that describes the genetic and mechanistic evidence that make dysfunction of mitochondria a candidate major player in this process.	Mitochondria , Amyotrophic Lateral Sclerosis, upper and lower motor neurons, neurodegenerative disease	February 19, 2017	Google scholar	English
8.	Multiple pathways for mitophagy: a neurodegenerative conundrum for Parkinson's disease	An review that discusses role of mitophagy in modulating neuronal vulnerability in Parkinson's spectrum (PD/PDD/DLB) and other neurodegenerative diseases.	Mitochondria, autophagy, neurodegeneration, mitophagy, Parkinson's disease, dementia, dementia with Lewy bodies, Parkinson's disease	2018	Google scholar	English
9.	LC3 binds externalized cardiolipin on injured mitochondria to signal mitophagy in neurons: implications for Parkinson disease	An article that discusses fine-tune the mitochondrial recycling response	Mitophagy, Parkinson, cardiolipin, rotenone, MAP1-LC3, neurons, 6-hydroxydopamine, cargo recognition, autophagy, neurodegenerative diseases	November 26, 2013	Google scholar	English
10.	Cardiolipin externalization to the outer mitochondrial membrane acts as an elimination signal for mitophagy in neuronal cells	This article discusses redistribution of cardiolipin serves as an 'eat-me' signal for the elimination of damaged mitochondria from neuronal cells.	Mitochondria, macroautophagy, cardiolipin, mitophagy, neuronal cells	September 15,2013	Google scholar	English
11.	Beclin 1-independent pathway of damage-induced mitophagy and autophagic stress: implications for neuro-degeneration and cell death	Discusses about Beclin 1 may serve to prevent harmful overactivation of autophagy	Macroautophagy, neuronal cell death, neurodegeneration, autophagy, autophagy proteins, Lewy body diseases, autophagic stress	November 1, 2007	Google scholar	English
12.	Loss of PINK1 function promotes mitophagy through effects on oxidative stress and mitochondrial fission	Discusses about PINK1 and Parkin may cooperate through different mechanisms to maintain mitochondrial homeostasis	Mitochondrial dysregulation, Parkinson's disease, PTEN-induced kinase 1 (PINK1), familial parkinsonism, neuropsychiatric disorders, mitochondrial fragmentation, RNAi knockdown	March 10, 2009	Google scholar	English
13.	Mitochondrial oxidative stress in aging and healthspan	A review that focuses on mitochondrial protective drugs, such as the mitochondrial antioxidants MitoQ, SkQ1, and the mitochondrial protective peptide SS-31	Mitochondria, oxidative stress, aging, healthspan	May 1, 2014	Google scholar	English
14.	TDP-43 interacts with mitochondrial proteins critical for	Discusses TDP-43 processing may contribute to metabolism and mitochondrial function	TDP-43, APP/PS1, PHB2, mitophagy, MFN2 mitochondria, PMPCA	June 21, 2018	Google scholar	English

	mitophagy and mitochondrial dynamics.					
15.	Mitochondria at the neuronal presynapse in health and disease	Importance of presynaptic mitochondria in maintaining neuronal homeostasis and how dysfunctional presynaptic mitochondria might contribute to the development of disease.	Synapses, mitochondria, neuronal homeostasis	January 19, 2018	Google scholar	English
16.	AMBRA1-mediated mitophagy counteracts oxidative stress and apoptosis induced by neurotoxicity in human neuroblastoma SH-SY5Y cells.	Important role in limiting ROS-induced dopaminergic cell death, and the utmost potential to prevent PD or other neurodegenerative diseases associated with mitochondrial oxidative stress	Parkinson's disease (PD) , Oxidative stress, autophagy of mitochondria, cell homeostasis, neurodegenerative diseases	April 18, 2018	Google scholar	English
17.	Mechanism and medical implications of mammalian autophagy.	Discusses about deregulation of autophagy in the context of various human pathologies, including cancer and neurodegeneration, and its modulation has considerable potential as a therapeutic approach.	Autophagy, cellular stress, catabolic process, cytoprotective functions, cancer, neurodegeneration	April 4, 2018	Google scholar	English
18.	Mitochondria, calcium-dependent neuronal death and neurodegenerative disease	Possible roles of cell type-specific calcium signaling mechanisms in defining the pathological phenotype of each of these major diseases and review central mechanisms of calcium-dependent mitochondrial-mediated cell death.	Mitochondria, intracellular calcium, neurodegenerative disease, glutamate excitotoxicity	May 22, 2012	Google scholar	English
19.	PINK1/Parkin-mediated mitophagy in mammalian cells	Discusses about how PINK1 activates Parkin in response to mitochondrial malfunction, how Parkin localizes specifically to impaired mitochondria, and how ubiquitination and deubiquitination regulate PINK1/Parkin-mediated mitophagy.	Mitophagy, parkin, PINK1, ubiquitination, deubiquitination, mitochondria	April, 2015	Google scholar	English
20.	Oxidants, oxidative stress and the biology of ageing	Describes that the appropriate and inappropriate production of oxidants, together with the ability of organisms to respond to oxidative stress, is intricately connected to ageing and life span.	Reactive oxygen species, oxidative stress, ageing and life span, metabolites	November 9, 2000	Google scholar	English
21.	Mitophagy in neurodegeneration and aging	Overview of mitophagy pathways and discuss the role of reduced mitophagy in neurodegeneration	Mitochondrial dysfunction, Parkinson's disease, Alzheimer's disease, proteolysis, mitophagy, autophagy, homeostasis	October, 2017	Google scholar	English
22.	Oxidative stress-induced signaling pathways implicated in the pathogenesis of Parkinson's disease	This article discusses the mechanisms and effects of oxidative stress, the emerging concept of the impact of environmental toxins, and a possible neuroprotective role of the antioxidant astaxanthin in various neurodegenerative disorders with particular emphasis in Parkinson's	Parkinson's disease, oxidative stress, signaling pathways, PINK1, MPTP, Astaxanthin	February 13, 2014	Google scholar	English

		disease				
23.	Deconstructing mitochondrial dysfunction in Alzheimer disease	This article summarizes the novel protocols for the generation of neurons by reprogramming or direct transdifferentiation, which offer useful tools to achieve this result	mitochondrial damage, Alzheimer's disease, mitochondrial-targeted antioxidant	2013	Google scholar	English
24.	The PINK1/Parkin-mediated mitophagy is compromised by PD-associated mutations	Importance of compromised PINK1 kinase activity, reduced binding of PINK1 to Parkin leads to failure in Parkin mitochondrial translocation, resulting in the accumulation of damaged mitochondria, which may contribute to disease pathogenesis	Mitochondrial dysfunction, neurodegenerative diseases, mitophagy, macroautophagy, damaged mitochondria	October 1, 2010	Google scholar	English
25.	Mitochondrial processing peptidase regulates PINK1 processing, import and Parkin recruitment	Highlights a new role for MPP in PINK1 import and mitochondrial quality control via the PINK1–Parkin pathway	Mitochondria, mitophagy, Parkinson's disease, PINK1, proteases	February 21, 2012	Google scholar	English
26.	An over-oxidized form of superoxide dismutase found in sporadic amyotrophic lateral sclerosis with bulbar onset shares a toxic mechanism with mutant SOD1	Demonstrates the existence of an iper-oxidized SOD1 with toxic properties in patient-derived cells and identifies a common SOD1-dependent toxicity between mutant SOD1-linked familial ALS and a subset of sporadic ALS, providing an opportunity to develop biomarkers to subclassify ALS and devise SOD1-based therapies that go beyond the small group of patients with mutant SOD1.	Superoxide dismutase, amyotrophic lateral sclerosis, posttranslational modifications, mitochondria	March 27, 2012	Google scholar	English
27.	Targeting the unfolded protein response in disease.	Discusses recent advances in the design of novel compounds and therapeutic strategies to manipulate levels of ER stress in disease.	Unfolded proteins, endoplasmic reticulum (ER), cellular adaptation, apoptosis, neurodegenerative disorders	August 30, 2013	Google scholar	English
28.	Full-length TDP-43 and its C-terminal fragments activate mitophagy in NSC34 cell line	Discusses about human TDP-43 and its C-terminal fragments may cause mitochondrial dysfunction and enhance mitophagy.	Amyotrophic lateral sclerosis, TDP-43, Mitochondrial dysfunction, Mitophagy	November 21, 2012	Google scholar	English
29.	Functional impairment in Miro degradation and mitophagy is a shared feature in familial and sporadic Parkinson's disease	Reveals that prolonged retention of Miro, and the downstream consequences that ensue, may constitute a central component of PD pathogenesis.	Homeostasis, oxidative stress, outer mitochondrial membrane, induced pluripotent stem cell, mitophagy, Parkinson's disease	December 1, 2016	Google scholar	English
30.	Loss of axonal mitochondria promotes tau-mediat-ed neurodegeneration	Loss of axonal mitochondria may play an important role in tau phosphorylation and toxicity in the pathogenesis of AD	Alzheimer's disease (AD), Tau phosphorylation, neurodegeneration ,	August 30, 2012	Google scholar	English

	and Alzheimer's disease–related tau phosphorylation via PAR-1		axonal mitochondria			
31.	Mitofusin 2 protects cerebellar granule neurons against injury-induced cell death	Highlights a signaling role for Mfn2 in the regulation of apoptosis that extends beyond its role in mitochondrial fusion	Mitofusin 2 (Mfn2), nervous system, neuronal injury, oxidative stress, apoptosis, mitochondrial fusion	May 30, 2007	Google scholar	English
32.	PGC-1α, mitochondrial dysfunction, and Huntington's disease	Discusses the role of PGC-1α in mitochondrial dysfunction in HD and its potential as a therapeutic target to cure HD.	Mitochondria, energy metabolism, calcium buffering, reactive oxygen species, neurodegeneration, mitochondrial biogenesis	September, 2013	Google scholar	English
33.	ALS: astrocytes move in as deadly neighbors	Discusses non-neuronal cells contribute to ALS pathogenesis	Amyotrophic lateral sclerosis, motor neurons, astrocytes, superoxide dismutase, motor neuron death	May 1, 2007	Google scholar	English
34.	DJ-1 and prevention of oxidative stress in Parkinson's disease and other age-related disorders	Augmenting DJ-1 activity might provide novel approaches to treating chronic neurodegenerative illnesses such as Parkinson's disease and acute damage such as stroke	DJ-1 redox signaling neurodegeneration Parkinson's disease free radicals	November 15, 2009	Google scholar	English
35.	Autophagy of mitochondria: a promising therapeutic target for neurodegenerative disease	Explores new approaches that can prevent mitochondrial dysfunction, improve neurodegenerative etiology, and also offer possible cures to the aforementioned neurodegenerative diseases.	Autophagy, mitophagy, neurodegeneration, oxidative stress	May 8, 2014	Google scholar	English
36.	Understanding miro GTPases: implications in the treatment of neurodegenerative disorders.	Potential human Miros hold as novel therapeutic targets for the treatment of such disease.	Miro GTPase, atypical GTPase, neurodegenerative diseases, amyotropic lateral sclerosis	February 6, 2018	Google scholar	English
37.	PINK1-induced mitophagy promotes neuroprotection in Huntington's disease	Mitophagy is altered in the presence of mHtt and that increasing PINK1/Parkin mitochondrial quality control pathway may improve mitochondrial integrity and neuroprotection in HD	Huntington's disease (HD), huntingtin gene, mitochondria, PTEN-induced putative kinase 1 (PINK1), neuroprotection	January 22, 2015	Google scholar	English
38.	PINK1 signaling in mitochondrial homeostasis and in aging	Cellular protection could be critical for developing treatments to prevent and control excessive progression of neurodegenerative disorders.	Mitochondrial dysfunction, Parkinson's disease, oxidative stress, neurodegenerative disorders, mitophagy	December 12, 2016	Google scholar	English
39.	Nix restores mitophagy and mito-chondrial function to protect against	Demonstrate that Nix can serve as an alternative mediator of mitophagy to maintain mitochondrial turnover, identifying Nix as a promising target for	Parkinson's disease (PD), mitophagy, dysfunctional mitochondria, Nip3-like protein X (Nix)	March 10, 2017	Google scholar	English

	PINK1/Parkin-related Parkinson's disease	neuroprotective treatment in PINK1/Parkin-related PD.				
40.	Inhibition of autophagy prevents hippocampal pyramidal neuron death after hypoxic-ischemic injury	Autophagy plays an essential role in triggering neuronal death execution after hypoxia/ischemia injury and Atg7 represents an attractive therapeutic target for minimizing the neurological deficits associated with H/I brain injury	Brain injury, cognitive and motor dysfunction, gene essential, autophagy, caspase-3	February, 2008	Google scholar	English
41.	Homeostatic levels of p62 control cytoplasmic inclusion body formation in autophagy-deficient mice	Highlight the unexpected role of homeostatic level of p62, which is regulated by autophagy, in controlling intracellular inclusion body formation, and indicate that the pathologic process associated with autophagic deficiency is cell-type specific.	Autophagy, cytoplasmic protein, neurodegeneration, protein aggregates, genetic ablation, inclusion body	December 14, 2007	Google scholar	English
42.	Mitochondria and mitophagy: The yin and yang of cell death control	The importance of mitochondria and mitophagy in cardiovascular health and disease and provide a review of our current understanding of how these processes are regulated.	Apoptosis, autophagy, mitochondria, p53, Parkin, phosphatase and tensin homolog–induced putative kinase 1	2012	PubMed	English
43.	Role of PINK1 binding to the TOM complex and alternate intracellular membranes in recruitment and activation of the E3 ligase Parkin	The association of PINK1 with the TOM complex allows rapid reimport of PINK1 to rescue repolarized mitochondria from mitophagy, and discount mitochondrial-specific factors for Parkin translocation and activation.	Mitochondria, mitophagy, peroxisomes, ubiquitin ligase, translocase of the outer membrane (TOM)	February 14, 2012	Google scholar	English
44.	Lysosomal proteolysis and autophagy require presenilin 1 and are disrupted by Alzheimer-related PS1 mutations	Defective lysosomal proteolysis represents a basis for pathogenic protein accumulations and neuronal cell death in AD and suggests previously unidentified therapeutic targets.	Macroautophagy, Alzheimer's disease, presenilin-1, proteolysis, autophagosome, autolysosome acidification, cathepsin	June 25, 2010	Google scholar	English
45.	Autophagy in neurodegeneration: Two sides of the same coin	The two sides of autophagy will be discussed in the context of several neurodegenerative diseases.	Autophagy; cell death; cell survival; neurodegeneration	June 30, 2009	Google scholar	English
46.	Basal mitophagy is widespread in Drosophila but minimally affected by loss of Pink1 or parkin	Pink1 and parkin are not essential for bulk basal mitophagy in Drosophila	Parkinson's disease, stress-induced mitophagy, basal mitophagy, dopaminergic neurons	March 2, 2018	Google scholar	English
47.	Selective mitochondrial autophagy, or mitophagy, as a targeted defense against oxidative stress, mitochondrial	Mitophagy may play a key role in retarding accumulation of somatic mutations of mtDNA with aging.	Autophagy, autophagosomes, mitochondria, outer membrane protein	March 29, 2005	Google scholar	English

	dysfunction, and aging					
48.	Pink1 protects cortical neurons from thapsigargin-induced oxidative stress and neuronal apoptosis	Neuronal protective role of Pink1 against oxidative stress and afford rationale for developing new strategy to the therapy of neurodegenerative diseases.	Apoptosis, neurogenesis, neurodegeneration, oxidative stress, endoplasmic reticulum, antioxidant gene	February 1, 2015	Google scholar	English
49.	Rapamycin attenuates mitochondrial dysfunction via activation of mitophagy in experimental ischemic stroke	Rapamycin treatment attenuates mitochondrial dysfunction following cerebral ischemia, which is linked to enhanced mitophagy.	Brain ischemia, mitochondria function, mitophagy, rapamycin	February 7, 2014	Google Scholar	English
50.	Structural insights into the recognition of phosphorylated FUNDC1 by LC3B in mitophagy	Reversible phosphorylation modification of mitophagy receptors may be a switch for selective mitophagy	Microtubule-associated protein light chain 3 beta, Fun14 domain-containing protein 1, mitophagy, phosphorylation	October 18, 2016	Google scholar	English
51.	Abnormal mitochon-drial transport and morphology are common pathological denominators in SOD1 and TDP43 ALS mouse models	Manifestation of mitochondrial abnormalities between the two mouse models of familial ALS imply that different molecular mechanisms may be involved.	Amyotrophic lateral sclerosis, mitochondrial transport, mitochondria, sciatic nerve	October 23, 2013	Google scholar	English
52.	Sigma-1 receptor in motoneuron disease. In: Sigma receptors: their role in disease and as therapeutic targets	The multi-functional nature of the Sigma-1R represents an attractive target for treating aspects of ALS and other motoneuron diseases	Sigma-1 receptor, motorneuron disease, amyotropic lateral sclerosis, etipathology	March 18, 2017	Google Scholar	English
53.	Cargo recognition failure is responsible for inefficient autophagy in Huntington's disease	Inefficient engulfment of cytosolic components by autophagosomes is responsible for their slower turnover, functional decay and accumulation inside HD cells.	Autophagy, cellular homeostasis, macroautophagy, autophagosomes, cytosolic components	April 11, 2010	Google scholar	English
54.	Basal mitophagy occurs independently of PINK1 in mouse tissues of high metabolic demand	Orchestrating mammalian mitochondrial integrity in a context-dependent fashion, and this has profound implications for our molecular understanding of vertebrate mitophagy	Mitophagy, Parkinson's disease, dopaminergic neurons, mammalian mitophagy	February 6, 2018	Google scholar	English
55.	The mitochondrial intramembrane protease PARL cleaves human Pink1 to regulate Pink1 trafficking	Two Parkinson's disease-causing mutations decrease the processing of Pink1 by PARL, with attendant implications for pathogenesis.	Intramembrane proteolysis, Parkinson's disease, mitophagy, mitochondrial integrity	March 23, 2011	Google scholar	English
56.	Autophagosomes in GFP-LC3 transgenic mice	GFP-LC3 transgenic mice and describe here how we determine the occurrence of autophagy in vivo using this mouse model.	Autophagsome, GFP, green fluorescent protein, LC3, Atg8	2008	Google scholar	English
57.	Parkinson's disease proteins: novel	The role of these PD proteins in the heart and explore their potential as novel	Coronary heart disease, Parkinson's disease,	December, 2015	Google scholar	English

	mitochondrial targets for cardioprotection	mitochondrial targets for cardioprotection	myocardial ischaemia-reperfusion injury, mitochondria ischaemic preconditioning			
58.	Pathogenic role of BECN1/Beclin 1 in the development of amyotrophic lateral sclerosis	Dual role of BECN1 in ALS and depict a complex scenario in terms of predicting the effects of manipulating autophagy in a disease context	ALS, autophagy, Beclin 1, neurodegenerative disease, SOD1	May 12, 2014	Google scholar	English
59.	Loss of Miro1-directed mitochondrial movement results in a novel murine model for neuron disease	Defects in mitochondrial motility and distribution are sufficient to cause neurological disease	Calcium-binding mitochondrial Rho, mitochondrial respiration, Miro GTPase	August 18, 2014	Google scholar	English
60.	Extensive involvement of autophagy in Alzheimer disease: an immuno-electron microscopy study	Neuroprotecive functions of autophagy	Lysosomes, neurodegeneration, amyloid, apoptosis, necrosis	February 1, 2005	Google scholar	English
61.	Nix is a selective autophagy receptor for mitochondrial clearance	Nix functions as an autophagy receptor, which mediates mitochondrial clearance after mitochondrial damage and during erythrocyte differentiation	GABARAP, LC3, mitophagy, Nix, selective autophagy	December 11, 2009	Google Scholar	English
62.	Pathology of protein synthesis and degradation systems in ALS	The main morphological abnormalities detected in the anterior horn cells of ALS patients	Protein synthesis, pathomechanisms, autophagic systems, ubiquitin-proteasomal	March 21, 2010	Google scholar	English
63.	Exploring new pathways of neurode-generation in ALS: the role of mitochondria quality control	Since ALS motor neurons progressively accumulate damaged mitochondria, it is plausible that the MQC is ineffective or overwhelmed by excessive workload imposed by the chronic and extensive mitochondrial damage.	ALS, mitochondria, mitophagy, SOD1, Parkin, p62	May 14, 2015	Google scholar	English
64.	The autophagy-re-lated protein beclin 1 shows reduced expression in early Alzheimer disease and regulates amyloid β accumulation in mice	Beclin 1 deficiency disrupts neuronal autophagy, modulates APP metabolism, and promotes neurodegeneration in mice and that increasing beclin 1 levels may have therapeutic potential in AD.	Autophagy, neurodegeneration, AD, amyloid-β, APP metabolism	May 22, 2008	Google scholar	English
65.	The roles of PINK1, Parkin, and mitochondrial fidelity in Parkinson's disease	PINK1 and Parkin play within cells, their molecular mechanisms of action, and the pathophysiological consequences of their loss.	Parkinson's disease, parkinsonism , Parkin, mitochondria, E3 ubiquitin ligase, membrane proteins	January 21, 2015	Google scholar	English
66.	Mutations in PINK1 and Parkin impair ubiquitination of Mitofusins in human	UPS is involved in mitofusin degradation.	Parkinson's disease (PD), Mitofusins, mitochondrial stress, Mitofusin degradation	March 8, 2011	Google scholar	English

	fibroblasts					
67.	HTT/Huntingtin in selective autophagy and Huntington disease: A foe or a friend within?	Role of HTT/Huntingtin in selective autophagy	aggrephagy, cargo recognition, Huntingtin, Huntington disease, lipophagy, mitophagy, MTORC1, nonselective autophagy, selective autophagy, SQSTM1/p62, ULK1	May 18, 2015	Google scholar	English
68.	A rational mechanism for combination treatment of Huntington's disease using lithium and rapamycin	Rational combination treatment approach in vivo by showing greater protection against neurodegeneration in an HD fly model with TOR inhibition and lithium, or in HD flies treated with rapamycin and lithium, compared with either pathway alone	Huntington's disease, mammalian target of rapamycin, glycogen synthase kinase-3b	October 6, 2007	Google scholar	English
69.	The interplay between mitochondria and autophagy and its role in the aging process	Mitochondrial function and autophagy with particular focus on their crosstalk and its possible implication in the aging process	Aging, autophagy, *C. elegans*, diseases, mitochondria, mitophagy, hormesis	August, 2014	Google scholar	English
70.	Neuroimmune crosstalk in the central nervous system and its significance for neurological diseases	The immune function of both glial cells and neurons, and the roles they play in regulating inflammatory processes and maintaining homeostasis of the CNS.	Microglia, astrocyte, neuron, neuroinflammation, innate immunity, adaptive immunity	July 2, 2012	Google scholar	English
71.	Protein turnover differences between neurons and other cells	Revealed some surprising differences in the ways that neurons regulate protein turnover compared with non-neuronal cells, which we discuss further in this article.	Huntington disease, autophagy, neurodegeneration, rapamycin, everolimus, LC3	October, 2009	Google scholar	English
72.	Decreased glutathione accelerates neurological deficit and mitochondrial pathology in familial ALS-linked hSOD1 G93A mice model	The potential difference in the molecular pathways by which different hSOD1 mutants generate disease	Amyotrophic lateral sclerosis, Glutathione, GCLM, Mitochondria	September, 2011	Google scholar	English
73.	Resveratrol protects neuronal-like cells expressing mutant Huntingtin from dopamine toxicity by rescuing ATG4-mediated autophagosome formation	Mechanistic explanation of the neuroprotective activity of Resveratrol and support its inclusion in a therapeutic regimen to slow down HD progression.	Huntington, Parkinson, dopaminergic neurons, autophagy, anti-oxidant neurodegeneration	July, 2018	Google scholar	English
74.	Mitochondria and cancer: Warburg addressed	The increased ROS mutagenizes nuclear proto-oncogenes (initiation) and drives nuclear replication (promotion), resulting	Oxidative phosphorylation, reactive oxygen	2005	Google scholar	English

		in cancer. Therefore, hexokinase II and mitochondrial ROS may be useful alternate targets for cancer therapeutics.	species, glycolytic metabolism			
75.	Resveratrol attenuates oxidative damage through activating mitophagy in an in vitro model of Alzheimer's disease	Mitophagy pathway may become a new targeted therapy to attenuate neuronal damage induced by AD.	Autophagy, oxidative stress, apoptosis, 3-MA, Aβ1-42	January 5, 2018	Google Scholar	English
76.	ROS-induced mitochondrial depolarization initiates PARK2/PARKIN-dependent mitochondrial degradation by autophagy.	ROS-induced mitochondrial damage may be an important upstream activator of mitophagy.	neurodegenerative disorders, mitophagy, mitochondrial morphology, KillerRed, live-cell imaging, reactive oxygen species, SOD2, PARK2/PARKIN, PINK1	August 14, 2012	Google scholar	English
77.	Motor cortex glutathione deficit in ALS measured in vivo with the J-editing technique.	Discrepancy is attributed to small but opposite changes in NAA and tCr in ALS that, as a ratio, resulted in a statistically significant group difference, further suggesting caution in using tCr as an internal reference under pathological conditions.	Magnetic resonance spectroscopy, amyotrophic lateral sclerosis, glutathione, oxidative stress, neurodegeneration, biomarker	June 6, 2014	Google scholar	English
78.	Parkin mediates proteasome-dependent protein degradation and rupture of the outer mitochondrial membrane	Parkin regulates degradation of outer and inner mitochondrial membrane proteins differently through proteasome- and mitophagy-dependent pathways.	Autophagy, Electron microscopy (EM), Parkinson's disease, proteasome, mitophagy, parkin	March 18, 2011	Google scholar	English
79.	Miro1 deficiency in amyotrophic lateral sclerosis	Miro1 deficiency in ALS patients and ALS animal models and suggest glutamate excitotoxicity as a likely cause of Miro1 deficiency.	Amyotrophic lateral sclerosis, Miro1, spinal cord, lutamate excitotoxicity	May 26, 2015	Google scholar	English
80.	Mitochondrial autophagy is an HIF-1-dependent adaptive metabolic response to hypoxia	Mitochondrial autophagy is an adaptive metabolic response which is necessary to prevent increased levels of reactive oxygen species and cell death.	Autophagy, cytoplasmic organelles, Beclin-1, reactive oxygen species	February 15, 2008	Google scholar	English
81.	Autophagy and mitophagy in cellular damage control.	Mitophagy are described in the context of bioenergetic dysfunction.	Neurodegeneration, alpha-synuclein, lysosomes, fission, fusion, reactive species, cellular bioenergetics pharmacological agents	2013	Google scholar	English