Mitochondrial Turnover and Aging of Long-Lived Postn Mitochondrial–Lysosomal Axis Theory of Aging

Antioxidants and Redox Signaling 12, 503-535 DOI: 10.1089/ars.2009.2598

Citation Report

#	Article	IF	CITATIONS
1	Hydrogen Peroxide: A Signaling Messenger. Antioxidants and Redox Signaling, 2006, 8, 243-270.	2.5	1,001
2	Pathological aspects of lipid peroxidation. Free Radical Research, 2010, 44, 1125-1171.	1.5	344
3	Chemistry and biochemistry of lipid peroxidation products. Free Radical Research, 2010, 44, 1098-1124.	1.5	425
4	Towards a unifying, systems biology understanding of large-scale cellular death and destruction caused by poorly liganded iron: Parkinson's, Huntington's, Alzheimer's, prions, bactericides, chemical toxicology and others as examples. Archives of Toxicology, 2010, 84, 825-889.	1.9	330
5	Role of autophagy in heart failure associated with aging. Heart Failure Reviews, 2010, 15, 423-430.	1.7	103
6	Does autophagy take a front seat in lifespan extension?. Journal of Cellular and Molecular Medicine, 2010, 14, 2543-2551.	1.6	37
7	Proteomic Identification of Cathepsin B and Nucleophosmin as Novel UVAâ€Targets in Human Skin Fibroblasts. Photochemistry and Photobiology, 2010, 86, 1307-1317.	1.3	36
8	Quantifiable Biomarkers of Normal Aging in the Japanese Medaka Fish (Oryzias latipes). PLoS ONE, 2010, 5, e13287.	1.1	46
9	Mechanisms of protein aggregation in the retinal pigment epithelial cells. Frontiers in Bioscience - Elite, 2010, E2, 1374-1384.	0.9	67
10	Sterol Regulatory Element-binding Protein (SREBP)-1-mediated Lipogenesis Is Involved in Cell Senescence. Journal of Biological Chemistry, 2010, 285, 29069-29077.	1.6	69
11	Chelation of lysosomal iron protects against ionizing radiation. Biochemical Journal, 2010, 432, 295-301.	1.7	41
12	Enhanced Retinal Insulin Receptor-activated Neuroprotective Survival Signal in Mice Lacking the Protein-tyrosine Phosphatase-1B Gene. Journal of Biological Chemistry, 2010, 285, 8894-8904.	1.6	32
13	Stem Cells and Neuroprotection: Understanding the Players. International Journal of Molecular Sciences, 2010, 11, 3288-3297.	1.8	3
14	New insights into the role of mitochondria in aging: mitochondrial dynamics and more. Journal of Cell Science, 2010, 123, 2533-2542.	1.2	448
15	Mitochondrial Dynamics and Autophagy. , 2011, , 69-108.		2
17	Autophagic Activity and Aging in Human Odontoblasts. Journal of Dental Research, 2011, 90, 523-528.	2.5	51
18	Master Switch of Mitochondrial Biogenesis: A Clinical Target for Health Span Enhancement?. Rejuvenation Research, 2011, 14, 223-226.	0.9	0
19	The role of lysosomes in iron metabolism and recycling. International Journal of Biochemistry and Cell Biology, 2011, 43, 1686-1697.	1.2	164

TION RE

#	Article	IF	CITATIONS
20	Age-associated neurodegeneration and oxidative damage to lipids, proteins and DNA. Molecular Aspects of Medicine, 2011, 32, 305-315.	2.7	179
21	Age-Related Macular Degeneration (AMD): Alzheimer's Disease in the Eye?. Journal of Alzheimer's Disease, 2011, 24, 615-631.	1.2	211
22	α1-adrenergic drugs exhibit affinity to a thapsigargin-sensitive binding site and interfere with the intracellular Ca2+ homeostasis in human erythroleukemia cells. Experimental Cell Research, 2011, 317, 2969-2980.	1.2	7
23	Lipofuscin inhibits the proteasome by binding to surface motifs. Free Radical Biology and Medicine, 2011, 50, 585-591.	1.3	98
24	Cell sensitivity to oxidative stress is influenced by ferritin autophagy. Free Radical Biology and Medicine, 2011, 50, 1647-1658.	1.3	65
25	Biallelic Mutations in PLA2G5, Encoding Group V Phospholipase A2, Cause Benign Fleck Retina. American Journal of Human Genetics, 2011, 89, 782-791.	2.6	40
26	Mammalian NADH:ubiquinone oxidoreductase (Complex I) and nicotinamide nucleotide transhydrogenase (Nnt) together regulate the mitochondrial production of H2O2—Implications for their role in disease, especially cancer. Journal of Bioenergetics and Biomembranes, 2011, 43, 541-564.	1.0	29
27	Development of an In Vitro Model to Evaluate the Regenerative Capacity of Adult Brain-Derived Tyrosine Hydroxylase-Expressing Dopaminergic Neurons. Neurochemical Research, 2011, 36, 967-977.	1.6	5
28	Age-related lysosomal dysfunction: an unrecognized roadblock for cobalamin trafficking?. Cellular and Molecular Life Sciences, 2011, 68, 3963-3969.	2.4	12
29	Proteasomal dysfunction in aging and Huntington disease. Neurobiology of Disease, 2011, 43, 4-8.	2.1	88
30	Pathways to Aging: The Mitochondrion at the Intersection of Biological and Psychosocial Sciences. Journal of Aging Research, 2011, 2011, 1-11.	0.4	27
31	Mitochondrial Biogenesis in Kidney Disease. Journal of the American Society of Nephrology: JASN, 2011, 22, 431-436.	3.0	107
32	The Mitochondrial Cascade Hypothesis for Parkinsons Disease. Current Pharmaceutical Design, 2011, 17, 3390-3397.	0.9	39
33	Autophagy and cartilage homeostasis mechanisms in joint health, aging and OA. Nature Reviews Rheumatology, 2011, 7, 579-587.	3.5	238
34	Influence of Hsp90 and HDAC Inhibition and Tubulin Acetylation on Perinuclear Protein Aggregation in Human Retinal Pigment Epithelial Cells. Journal of Biomedicine and Biotechnology, 2011, 2011, 1-8.	3.0	14
35	Mitochondrial dynamics and autophagy aid in removal of persistent mitochondrial DNA damage in Caenorhabditis elegans. Nucleic Acids Research, 2012, 40, 7916-7931.	6.5	113
36	Autophagy regulating kinases as potential therapeutic targets for age-related macular degeneration. Future Medicinal Chemistry, 2012, 4, 2153-2161.	1.1	22
37	Chelating Agents for Neurodegenerative Diseases. Current Medicinal Chemistry, 2012, 19, 2760-2772.	1.2	54

#	Article	IF	CITATIONS
38	Moderately Reduced ATP Levels Promote Oxidative Stress and Debilitate Autophagic and Phagocytic Capacities in Human RPE Cells. , 2012, 53, 5354.		68
39	Skeletal Muscle Mitochondria and Aging: A Review. Journal of Aging Research, 2012, 2012, 1-20.	0.4	221
40	Molecular Mechanisms for Age-Associated Mitochondrial Deficiency in Skeletal Muscle. Journal of Aging Research, 2012, 2012, 1-14.	0.4	13
41	Innate Immune Function by Toll-like Receptors: Distinct Responses in Newborns and the Elderly. Immunity, 2012, 37, 771-783.	6.6	478
42	Lysosomal storage disorders: The cellular impact of lysosomal dysfunction. Journal of Cell Biology, 2012, 199, 723-734.	2.3	579
43	Regional differences in age-related lipofuscin accumulation in the female hamster brainstem. Neurobiology of Aging, 2012, 33, 625.e1-625.e9.	1.5	9
44	Protein-oxidized phospholipid interactions in cellular signaling for cell death: From biophysics to clinical correlations. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2446-2455.	1.4	54
45	Alzheimer's Disease: Redox Dysregulation As a Common Denominator for Diverse Pathogenic Mechanisms. Antioxidants and Redox Signaling, 2012, 16, 974-1031.	2.5	163
46	Human and rat brain lipofuscin proteome. Proteomics, 2012, 12, 2445-2454.	1.3	39
47	Cardiac Aging: From Molecular Mechanisms to Significance in Human Health and Disease. Antioxidants and Redox Signaling, 2012, 16, 1492-1526.	2.5	247
48	Nuclear and mitochondrial DNA oxidation in Alzheimer's disease. Free Radical Research, 2012, 46, 565-576.	1.5	46
49	Mitochondrial Autophagy and Lipofuscin Accumulation in Aging Odontoblasts. Journal of Dental Research, 2012, 91, 696-701.	2.5	27
50	Schisandrin B as a Hormetic Agent for Preventing Age-Related Neurodegenerative Diseases. Oxidative Medicine and Cellular Longevity, 2012, 2012, 1-9.	1.9	28
51	The formation and functional consequences of heterogeneous mitochondrial distributions in skeletal muscle. Journal of Experimental Biology, 2012, 215, 1871-1883.	0.8	16
52	Mitochondrial Dynamics: The Intersection of Form and Function. Advances in Experimental Medicine and Biology, 2012, 748, 13-40.	0.8	72
53	Contribution of Impaired Mitochondrial Autophagy to Cardiac Aging. Circulation Research, 2012, 110, 1125-1138.	2.0	202
54	Decreased peripheral blood mitochondrial DNA content is related to HbA _{1c} , fasting plasma glucose level and age of onset in Type 2 diabetes mellitus. Diabetic Medicine, 2012, 29, e47-54.	1.2	40
55	Facts and controversies in our understanding of how caloric restriction impacts the mitochondrion. Experimental Gerontology, 2013, 48, 1075-1084.	1.2	35

#	Article	IF	CITATIONS
56	Mitochondrial dysfunction and sarcopenia of aging: From signaling pathways to clinical trials. International Journal of Biochemistry and Cell Biology, 2013, 45, 2288-2301.	1.2	414
57	Peroxisomes and their Key Role in Cellular Signaling and Metabolism. Sub-Cellular Biochemistry, 2013, , .	1.0	17
58	Aging, Age-Related Diseases and Peroxisomes. Sub-Cellular Biochemistry, 2013, 69, 45-65.	1.0	71
59	Role of p38MAPK and oxidative stress in copper-induced senescence. Age, 2013, 35, 2255-2271.	3.0	29
60	Autophagy of iron-binding proteins may contribute to the oxidative stress resistance of ARPE-19 cells. Experimental Eye Research, 2013, 116, 359-365.	1.2	25
61	Aging, Nutrition and Lifestyle. , 2013, , 191-217.		0
62	Dilation of human atria: Increased diffusion restrictions for ADP, overexpression of hexokinase 2 and its coupling to oxidative phosphorylation in cardiomyocytes. Mitochondrion, 2013, 13, 399-409.	1.6	16
63	The Amazing Odontoblast. Journal of Dental Research, 2013, 92, 765-772.	2.5	146
64	UVB irradiation as a tool to assess ROS-induced damage in human spermatozoa. Andrology, 2013, 1, 707-714.	1.9	28
65	Surfactant-assisted dispersion of carbon nanotubes: mechanism of stabilization and biocompatibility of the surfactant. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	19
66	Role of mitochondrial dysfunction and altered autophagy in cardiovascular aging and disease: from mechanisms to therapeutics. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H459-H476.	1.5	163
67	Age-related appearance of dendritic inclusions in catecholaminergic brainstem neurons. Neurobiology of Aging, 2013, 34, 286-297.	1.5	19
68	Autophagy, polyphenols and healthy ageing. Ageing Research Reviews, 2013, 12, 237-252.	5.0	138
69	UVCâ€Induced Mitochondrial Degradation via Autophagy Correlates with mtDNA Damage Removal in Primary Human Fibroblasts. Journal of Biochemical and Molecular Toxicology, 2013, 27, 28-41.	1.4	34
70	Lipofuscin in human glaucomatous optic nerves. Experimental Eye Research, 2013, 111, 61-66.	1.2	10
71	Advanced glycation end products and lipofuscin deposits share the same location in cardiocytes of the failing heart. Experimental Gerontology, 2013, 48, 223-228.	1.2	22
72	Nicotinamide forestalls pathology and cognitive decline in Alzheimer mice: evidence for improved neuronal bioenergetics and autophagy procession. Neurobiology of Aging, 2013, 34, 1564-1580.	1.5	181
73	Bioanalysis of Eukaryotic Organelles. Chemical Reviews, 2013, 113, 2733-2811.	23.0	110

#	Article	IF	CITATIONS
74	Cellular and molecular mechanisms of age-related macular degeneration: From impaired autophagy to neovascularization. International Journal of Biochemistry and Cell Biology, 2013, 45, 1457-1467.	1.2	66
75	Protective effects of a catechin-rich extract on the hippocampal formation and spatial memory in aging rats. Behavioural Brain Research, 2013, 246, 94-102.	1.2	27
76	Lysosomal Iron, Iron Chelation, and Cell Death. Antioxidants and Redox Signaling, 2013, 18, 888-898.	2.5	147
77	Effects of aging, antiaging calorie restriction and in vivo stimulation of autophagy on the urinary excretion of 8OHdG in male Sprague–Dawley rats. Age, 2013, 35, 261-270.	3.0	16
78	SIRT3 deacetylates FOXO3 to protect mitochondria against oxidative damage. Free Radical Biology and Medicine, 2013, 63, 222-234.	1.3	339
79	Nutritional considerations for aged horses. , 2013, , 289-303.		2
80	Short-term calorie restriction protects against renal senescence of aged rats by increasing autophagic activity and reducing oxidative damage. Mechanisms of Ageing and Development, 2013, 134, 570-579.	2.2	71
81	Autofluorescence properties of murine embryonic stem cells during spontaneous differentiation phases. Lasers in Surgery and Medicine, 2013, 45, 597-607.	1.1	13
82	Regulation of Lifespan by the Mitochondrial Electron Transport Chain: Reactive Oxygen Species-Dependent and Reactive Oxygen Species-Independent Mechanisms. Antioxidants and Redox Signaling, 2013, 19, 1953-1969.	2.5	59
83	HIV compromises integrity of the podocyte actin cytoskeleton through downregulation of the vitamin D receptor. American Journal of Physiology - Renal Physiology, 2013, 304, F1347-F1357.	1.3	30
84	Mitochondrial pathways in sarcopenia of aging and disuse muscle atrophy. Biological Chemistry, 2013, 394, 393-414.	1.2	246
85	Autophagy and heterophagy dysregulation leads to retinal pigment epithelium dysfunction and development of age-related macular degeneration. Autophagy, 2013, 9, 973-984.	4.3	279
86	Oxygen control of intracellular distribution of mitochondria in muscle fibers. Biotechnology and Bioengineering, 2013, 110, 2513-2524.	1.7	9
87	Accumulated Polymer Degradation Products as Effector Molecules in Cytotoxicity of Polymeric Nanoparticles. Toxicological Sciences, 2013, 136, 131-143.	1.4	78
88	Insufficient Autophagy Contributes to Mitochondrial Dysfunction, Organ Failure, and Adverse Outcome in an Animal Model of Critical Illness*. Critical Care Medicine, 2013, 41, 182-194.	0.4	131
89	Green Tea and Protection of the Brain Against Aging. , 2013, , 1337-1348.		Ο
90	Mobilization of Stored Iron in Mammals: A Review. Nutrients, 2013, 5, 4022-4050.	1.7	104
91	Autophagy Activation Clears ELAVL1/HuR-Mediated Accumulation of SQSTM1/p62 during Proteasomal Inhibition in Human Retinal Pigment Epithelial Cells. PLoS ONE, 2013, 8, e69563.	1.1	138

#	ARTICLE	IF	CITATIONS
92	Mitochondria as a Potential Regulator of Myogenesis. Scientific World Journal, The, 2013, 2013, 1-9.	0.8	97
93	Brain Aging and Performance Plasticity in Honeybees. Handbook of Behavioral Neuroscience, 2013, , 487-500.	0.7	4
94	Functionalized polystyrene nanoparticles as a platform for studying bio–nano interactions. Beilstein Journal of Nanotechnology, 2014, 5, 2403-2412.	1.5	165
95	Ubiquitination of Mitofusins in PINK1/Parkin-Mediated Mitophagy. , 2014, , 189-199.		0
96	Longevity pathways and maintenance of the proteome: the role of autophagy and mitophagy during yeast ageing. Microbial Cell, 2014, 1, 118-127.	1.4	30
97	Autophagy in Plasma Cell Pathophysiology. Frontiers in Immunology, 2014, 5, 103.	2.2	27
98	Rapamycin Attenuated Cardiac Hypertrophy Induced by Isoproterenol and Maintained Energy Homeostasis via Inhibiting NF-κB Activation. Mediators of Inflammation, 2014, 2014, 1-15.	1.4	24
99	Natural Compounds and Aging: Between Autophagy and Inflammasome. BioMed Research International, 2014, 2014, 1-10.	0.9	45
100	Pompe disease: from pathophysiology to therapy and back again. Frontiers in Aging Neuroscience, 2014, 6, 177.	1.7	147
101	Measurement of Mitochondrial Turnover and Life Cycle Using MitoTimer. Methods in Enzymology, 2014, 547, 21-38.	0.4	16
102	Acidosis overrides oxygen deprivation to maintain mitochondrial function and cell survival. Nature Communications, 2014, 5, 3550.	5.8	141
103	RAB26 coordinates lysosome traffic and mitochondrial localization. Journal of Cell Science, 2014, 127, 1018-32.	1.2	34
104	The effects of age and muscle contraction on AMPK activity and heterotrimer composition. Experimental Gerontology, 2014, 55, 120-128.	1.2	32
105	Do we age because we have mitochondria?. Protoplasma, 2014, 251, 3-23.	1.0	29
106	The value of muscle biopsies in Pompe disease: identifying lipofuscin inclusions in juvenile- and adult-onset patients. Acta Neuropathologica Communications, 2014, 2, 2.	2.4	55
107	Increased sensitivity to mitochondrial permeability transition and myonuclear translocation of endonuclease G in atrophied muscle of physically active older humans. FASEB Journal, 2014, 28, 1621-1633.	0.2	159
108	Krebs cycle dysfunction shapes epigenetic landscape of chromatin: Novel insights into mitochondrial regulation of aging process. Cellular Signalling, 2014, 26, 1598-1603.	1.7	78
109	The many faces of autophagy dysfunction in Huntington's disease: from mechanism to therapy. Drug Discovery Today, 2014, 19, 963-971.	3.2	112

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#	Article	IF	CITATIONS
110	Mitochondrial quality control systems sustain brain mitochondrial bioenergetics in early stages of type 2 diabetes. Molecular and Cellular Biochemistry, 2014, 394, 13-22.	1.4	31
111	Autophagy and apoptosis dysfunction in neurodegenerative disorders. Progress in Neurobiology, 2014, 112, 24-49.	2.8	957
112	Skeletal muscle mitochondria: A major player in exercise, health and disease. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 1276-1284.	1.1	184
113	The interplay between mitochondrial protein and iron homeostasis and its possible role in ageing. Experimental Gerontology, 2014, 56, 123-134.	1.2	17
114	Modulating mTOR in Aging and Health. Interdisciplinary Topics in Gerontology, 2015, 40, 107-127.	3.6	96
115	Decrease in ATP biosynthesis and dysfunction of biological membranes. Two possible key mechanisms of phenoptosis. Biochemistry (Moscow), 2014, 79, 1056-1068.	0.7	6
116	PEDF Improves Mitochondrial Function in RPE Cells During Oxidative Stress. Investigative Ophthalmology and Visual Science, 2014, 55, 6742-6755.	3.3	54
117	Proteome Adaptation of <i>Saccharomyces cerevisiae</i> to Severe Calorie Restriction in Retentostat Cultures. Journal of Proteome Research, 2014, 13, 3542-3553.	1.8	17
118	Is hard tissue formation in the dental pulp after the death of the primary odontoblasts a regenerative or a reparative process?. Journal of Dentistry, 2014, 42, 1156-1170.	1.7	100
119	The mitochondrial genome in aging and senescence. Ageing Research Reviews, 2014, 18, 1-15.	5.0	63
120	Mitochondrial function and mitochondrial DNA maintenance with advancing age. Biogerontology, 2014, 15, 417-438.	2.0	68
121	Mitochondrial Dynamics in Aging and Disease. Progress in Molecular Biology and Translational Science, 2014, 127, 93-131.	0.9	35
122	Methods for the discovery of new anti-aging products – targeted approaches. Expert Opinion on Drug Discovery, 2014, 9, 383-405.	2.5	25
123	Heart Failure With Preserved Ejection Fraction. Circulation Research, 2014, 115, 97-107.	2.0	154
124	Krebs cycle intermediates regulate DNA and histone methylation: Epigenetic impact on the aging process. Ageing Research Reviews, 2014, 16, 45-65.	5.0	95
125	Delivering healthy mitochondria for the therapy of mitochondrial diseases and beyond. International Journal of Biochemistry and Cell Biology, 2014, 53, 141-146.	1.2	61
126	Mitochondrial Involvement and Impact in Aging Skeletal Muscle. Frontiers in Aging Neuroscience, 2014, 6, 211.	1.7	115
127	Parallel damage in mitochondrial and lysosomal compartments promotes efficient cell death with autophagy: The case of the pentacyclic triterpenoids. Scientific Reports, 2015, 5, 12425.	1.6	30

		CITATION RE	PORT	
#	Article		IF	CITATIONS
128	Oxidative Stress and the Homeodynamics of Iron Metabolism. Biomolecules, 2015, 5, 8	08-847.	1.8	185
129	The Pleiotropic Effect of Physical Exercise on Mitochondrial Dynamics in Aging Skeletal Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-15.	Muscle.	1.9	63
130	Comparative Meta-Analysis of Transcriptomics Data during Cellular Senescence and <i>I Vivo</i> Tissue Ageing. Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-17.	n	1.9	17
131	Mitochondrial morphology is altered in atrophied skeletal muscle of aged mice. Oncota 17923-17937.	rget, 2015, 6,	0.8	202
132	This old heart: Cardiac aging and autophagy. Journal of Molecular and Cellular Cardiolog 44-54.	şy, 2015, 83,	0.9	91
133	AMPK Activation of Muscle Autophagy Prevents Fasting-Induced Hypoglycemia and My Aging. Cell Metabolism, 2015, 21, 883-890.	opathy during	7.2	190
134	Improvement Characteristics of Bio-active Materials Coated Fabric on Rat Muscular Mit Korean Journal of Physiology and Pharmacology, 2015, 19, 283.	ochondria.	0.6	7
135	The Mechanobiology of Aging. Annual Review of Biomedical Engineering, 2015, 17, 113	-141.	5.7	216
136	Pathogenesis of Osteoarthritis. , 2015, , 1-28.			5
137	Concentrations of total curcuminoids in plasma, but not liver and kidney, are higher in 3 3-months old mice. NFS Journal, 2015, 1, 3-8.	.8- than in	1.9	4
138	The mitochondrial lncRNA ASncmtRNA-2 is induced in aging and replicative senescence Cells. Journal of Molecular and Cellular Cardiology, 2015, 81, 62-70.	in Endothelial	0.9	133
139	Activation of autophagy via Ca ²⁺ -dependent AMPK/mTOR pathway in rat is a cellular adaptation under hyperosmotic stress. Cell Cycle, 2015, 14, 867-879.	notochordal cells	1.3	71
140	Combined aerobic exercise and enzyme replacement therapy rejuvenates the mitochon axis and alleviates autophagic blockage in Pompe disease. Free Radical Biology and Mec 98-112.	drial–lysosomal licine, 2015, 87,	1.3	26
141	The Sick and the Weak: Neuropathies/Myopathies in the Critically III. Physiological Revie 1025-1109.	ws, 2015, 95,	13.1	262
142	Mitochondrial responsibility in ageing process: innocent, suspect or guilty. Biogerontolo 599-620.	ogy, 2015, 16,	2.0	61
143	Heart failure with preserved ejection fraction in the elderly: scope of the problem. Journ Molecular and Cellular Cardiology, 2015, 83, 73-87.	al of	0.9	113
144	Dynamics of the Initial Signs of Experimental Diabetic Encephalopathy. Neuroscience ar Physiology, 2015, 45, 276-282.	ıd Behavioral	0.2	0
145	Anthracyclines/trastuzumab: new aspects of cardiotoxicity and molecular mechanisms. Pharmacological Sciences, 2015, 36, 326-348.	Trends in	4.0	206

#	Article	IF	Citations
146	Defects in calcium homeostasis and mitochondria can be reversed in Pompe disease. Autophagy, 2015, 11, 385-402.	4.3	93
147	Autophagy in polyglutamine disease: Imposing order on disorder or contributing to the chaos?. Molecular and Cellular Neurosciences, 2015, 66, 53-61.	1.0	47
149	Interaction Between Mitochondria and Autophagy. Current Topics in Neurotoxicity, 2015, , 41-61.	0.4	0
150	Mitochondria, Muscle Health, and Exercise with Advancing Age. Physiology, 2015, 30, 208-223.	1.6	133
151	Metabolic Reprogramming Is Required for Myofibroblast Contractility and Differentiation. Journal of Biological Chemistry, 2015, 290, 25427-25438.	1.6	140
152	20years of leptin: Role of leptin in cardiomyocyte physiology and physiopathology. Life Sciences, 2015, 140, 10-18.	2.0	27
153	Age related skeletal muscle atrophy and upregulation of autophagy in dogs. Veterinary Journal, 2015, 206, 54-60.	0.6	36
154	Melatonin in Retinal Physiology and Pathology: The Case of Age-Related Macular Degeneration. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-12.	1.9	44
155	Melatonin as a Potential Agent in the Treatment of Sarcopenia. International Journal of Molecular Sciences, 2016, 17, 1771.	1.8	41
156	Mitochondrial Functional Changes Characterization in Young and Senescent Human Adipose Derived MSCs. Frontiers in Aging Neuroscience, 2016, 8, 299.	1.7	41
157	EGCG Inhibited Lipofuscin Formation Based on Intercepting Amyloidogenic β-Sheet-Rich Structure Conversion. PLoS ONE, 2016, 11, e0152064.	1.1	14
158	Autophagy as a Potential Target for Sarcopenia. Journal of Cellular Physiology, 2016, 231, 1450-1459.	2.0	80
159	Lysosome acidification by photoactivated nanoparticles restores autophagy under lipotoxicity. Journal of Cell Biology, 2016, 214, 25-34.	2.3	59
160	Bioenergetics of the aging heart and skeletal muscles: Modern concepts and controversies. Ageing Research Reviews, 2016, 28, 1-14.	5.0	16
161	The crucial impact of lysosomes in aging and longevity. Ageing Research Reviews, 2016, 32, 2-12.	5.0	200
162	Cellular Ageing and Replicative Senescence. Healthy Ageing and Longevity, 2016, , .	0.2	10
163	Mitochondrial dysfunction and oxidative stress in patients with chronic kidney disease. Physiological Reports, 2016, 4, e12780.	0.7	156
164	Mitochondrial homeostatic disruptions are sensitive indicators of stress in neurons with defective mitochondrial DNA transactions. Mitochondrion, 2016, 31, 9-19.	1.6	7

	Сітат	ION REPORT	
#	Article	IF	CITATIONS
165	Mitochondrial form, function and signalling in aging. Biochemical Journal, 2016, 473, 3421-3449.	1.7	30
167	Rapamycin reverses age-related increases in mitochondrial ROS production at complex I, oxidative stress, accumulation of mtDNA fragments inside nuclear DNA, and lipofuscin level, and increases autophagy, in the liver of middle-aged mice. Experimental Gerontology, 2016, 83, 130-138.	1.2	92
168	Mitochondria and oxidative stress in heart aging. Age, 2016, 38, 225-238.	3.0	124
169	Caloric restriction and the precision-control of autophagy: A strategy for delaying neurodegenerative disease progression. Experimental Gerontology, 2016, 83, 97-111.	1.2	57
170	Autophagy Networks in Inflammation. , 2016, , .		3
171	Increased Protein Stability and Decreased Protein Turnover in the <i>Caenorhabditis elegans</i> Ins/IGF-1 <i>daf-2</i> Mutant. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2016, 71, 1553-1559.	1.7	40
172	Understanding Age-Related Changes in Skeletal Muscle Metabolism: Differences Between Females and Males. Annual Review of Nutrition, 2016, 36, 129-156.	4.3	64
173	Clial degeneration with oxidative damage drives neuronal demise in MPSII disease. Cell Death and Disease, 2016, 7, e2331-e2331.	2.7	27
174	AMPK/Mitochondria in Metabolic Diseases. Exs, 2016, 107, 129-152.	1.4	21
175	Mitochondrial and lysosomal biogenesis are activated following <scp>PINK</scp> 1/parkinâ€mediated mitophagy. Journal of Neurochemistry, 2016, 136, 388-402.	2.1	184
176	Mitochondrial elongation in the macular RPE of aging monkeys, evidence of metabolic stress. Graefe's Archive for Clinical and Experimental Ophthalmology, 2016, 254, 1221-1227.	1.0	28
177	Sprague Dawley rats: A model of successful heart aging. EuPA Open Proteomics, 2016, 12, 22-30.	2.5	7
178	Derailed Proteostasis as a Determinant of Cardiac Aging. Canadian Journal of Cardiology, 2016, 32, 1166.e11-1166.e20.	0.8	19
179	Preeclampsia As Modulator of Offspring Health1. Biology of Reproduction, 2016, 94, 53.	1.2	62
180	The role of lysosome in cell death regulation. Tumor Biology, 2016, 37, 1427-1436.	0.8	55
181	Impact of aging on mitochondrial function in cardiac and skeletal muscle. Free Radical Biology and Medicine, 2016, 98, 177-186.	1.3	54
182	Increased Mammalian Target of Rapamycin Signaling Contributes to the Accumulation of Protein Oxidative Damage in a Mouse Model of Down's Syndrome. Neurodegenerative Diseases, 2016, 16, 62-68	0.8	35
183	NAD+ as the Link Between Oxidative Stress, Inflammation, Caloric Restriction, Exercise, DNA Repair, Longevity, and Health Span. Rejuvenation Research, 2016, 19, 406-413.	0.9	59

#	Article	IF	CITATIONS
184	Impaired mitochondrial degradation by autophagy in the skeletal muscle of the aged female interleukin 10 null mouse. Experimental Gerontology, 2016, 73, 23-27.	1.2	53
185	A neuronal aging pattern unique to humans and common chimpanzees. Brain Structure and Function, 2016, 221, 647-664.	1.2	18
186	Oxidative status predicts quality in human mesenchymal stem cells. Stem Cell Research and Therapy, 2017, 8, 3.	2.4	26
187	Transformation, migration and outcome of residual bodies in the seminiferous tubules of the rat testis. Andrologia, 2017, 49, e12786.	1.0	12
188	Mitochondrial contribution to lipofuscin formation. Redox Biology, 2017, 11, 673-681.	3.9	114
189	Brain aging and neurodegeneration: from a mitochondrial point of view. Journal of Neurochemistry, 2017, 143, 418-431.	2.1	402
190	Mitochondria and ageing: role in heart, skeletal muscle and adipose tissue. Journal of Cachexia, Sarcopenia and Muscle, 2017, 8, 349-369.	2.9	279
191	Cerium oxide nanozyme modulate the â€~exercise' redox biology of skeletal muscle. Materials Research Express, 2017, 4, 055401.	0.8	11
192	Conserved and species-specific molecular denominators in mammalian skeletal muscle aging. Npj Aging and Mechanisms of Disease, 2017, 3, 8.	4.5	21
193	CD34+ cell count predicts long lasting life in the oldest old. Mechanisms of Ageing and Development, 2017, 164, 139-145.	2.2	12
194	Biomarkers of chondriome topology and function: implications for the extension of healthy aging. Biogerontology, 2017, 18, 201-215.	2.0	7
195	Role of macrophages in age-related oxidative stress and lipofuscin accumulation in mice. Redox Biology, 2017, 12, 423-437.	3.9	79
196	Happily (n)ever after: Aging in the context of oxidative stress, proteostasis loss and cellular senescence. Redox Biology, 2017, 11, 482-501.	3.9	268
197	Mitochondrial Dysfunction in Lung Pathogenesis. Annual Review of Physiology, 2017, 79, 495-515.	5.6	79
198	Vitamin D deficiency accelerates ageing and ageâ€related diseases: a novel hypothesis. Journal of Physiology, 2017, 595, 6825-6836.	1.3	100
199	Precision cardio-oncology: understanding the cardiotoxicity of cancer therapy. Npj Precision Oncology, 2017, 1, 31.	2.3	102
200	Exercise Protects Skeletal Muscle during Chronic Doxorubicin Administration. Medicine and Science in Sports and Exercise, 2017, 49, 2394-2403.	0.2	19
201	Age and ischemia differentially impact mitochondrial ultrastructure and function in a novel model of age-associated estrogen deficiency in the female rat heart. Pflugers Archiv European Journal of Physiology, 2017, 469, 1591-1602.	1.3	12

#	Article	IF	CITATIONS
202	Altered neurofilament protein expression in the lateral vestibular nucleus in Parkinson's disease. Experimental Brain Research, 2017, 235, 3695-3708.	0.7	22
203	MiRNA Deregulation in Cardiac Aging and Associated Disorders. International Review of Cell and Molecular Biology, 2017, 334, 207-263.	1.6	23
204	Cell-permeable organic fluorescent probes for live-cell long-term super-resolution imaging reveal lysosome-mitochondrion interactions. Nature Communications, 2017, 8, 1307.	5.8	151
205	Lipofuscin Generated by UVA Turns Keratinocytes Photosensitive to Visible Light. Journal of Investigative Dermatology, 2017, 137, 2447-2450.	0.3	28
206	Alzheimer's disease: as it was in the beginning. Reviews in the Neurosciences, 2017, 28, 825-843.	1.4	62
207	Membrane damage by betulinic acid provides insights into cellular aging. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 3129-3143.	1.1	19
208	Increase in tumor suppressor Arf compensates gene dysregulation in in vitro aged adipocytes. Biogerontology, 2017, 18, 55-68.	2.0	4
209	Mitochondrial-Targeted Antioxidant Maintains Blood Flow, Mitochondrial Function, and Redox Balance in Old Mice Following Prolonged Limb Ischemia. International Journal of Molecular Sciences, 2017, 18, 1897.	1.8	34
210	The Impact of Environmental Factors in Influencing Epigenetics Related to Oxidative States in the Cardiovascular System. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-18.	1.9	27
211	Monoamine Oxidases, Oxidative Stress, and Altered Mitochondrial Dynamics in Cardiac Ageing. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-8.	1.9	76
212	Spermidine coupled with exercise rescues skeletal muscle atrophy from D-gal-induced aging rats through enhanced autophagy and reduced apoptosis via AMPK-FOXO3a signal pathway. Oncotarget, 2017, 8, 17475-17490.	0.8	122
213	Emerging roles of microglial cathepsins in neurodegenerative disease. Brain Research Bulletin, 2018, 139, 144-156.	1.4	46
214	Autofluorescence: A potential pitfall in immunofluorescence-based inflammation grading. Journal of Immunological Methods, 2018, 456, 28-37.	0.6	28
215	<scp>l</scp> -Carnitine-induced amelioration of HFD-induced hepatic dysfunction is accompanied by a reduction in hepatic TNF-α and TGF-β1. Biochemistry and Cell Biology, 2018, 96, 713-725.	0.9	12
216	Mitochondrial oxidative stress and cardiac ageing. ClÃnica E Investigación En Arteriosclerosis (English Edition), 2018, 30, 74-83.	0.1	6
217	The role of autophagy in ageâ€related macular degeneration. Acta Ophthalmologica, 2018, 96, 1-50.	0.6	10
218	Glycine Amidinotransferase (GATM), Renal Fanconi Syndrome, and Kidney Failure. Journal of the American Society of Nephrology: JASN, 2018, 29, 1849-1858.	3.0	53
219	Estrés oxidativo mitocondrial y envejecimiento cardÃaco. ClÃnica E Investigación En Arteriosclerosis, 2018, 30, 74-83.	0.4	8

#	Article	IF	CITATIONS
220	MECHANISMS IN ENDOCRINOLOGY: SGLT2 inhibitors: clinical benefits by restoration of normal diurnal metabolism?. European Journal of Endocrinology, 2018, 178, R113-R125.	1.9	79
221	Mechanisms driving the ageing heart. Experimental Gerontology, 2018, 109, 5-15.	1.2	41
222	Mobilization of iron from ferritin: new steps and details. Metallomics, 2018, 10, 154-168.	1.0	40
223	The role of mitochondrial <scp>ROS</scp> in the aging brain. FEBS Letters, 2018, 592, 743-758.	1.3	259
224	Mitochondrial gene expression changes in cultured human skin cells following simulated sunlight irradiation. Journal of Photochemistry and Photobiology B: Biology, 2018, 179, 167-174.	1.7	5
225	SIPS as a model to study age-related changes in proteolysis and aggregate formation. Mechanisms of Ageing and Development, 2018, 170, 72-81.	2.2	24
226	Sensing Oxidative Stress: The NRF2 Signaling Pathway. , 2018, , 337-351.		0
227	Autophagy, EVs, and Infections: A Perfect Question for a Perfect Time. Frontiers in Cellular and Infection Microbiology, 2018, 8, 362.	1.8	53
228	Oxidation and Inflammation in the Immune and Nervous Systems, a Link Between Aging and Anxiety. , 2018, , 1-31.		11
229	Photochemistry of Lipofuscin and the Interplay of UVA and Visible Light in Skin Photosensitivity. , 0, , .		0
230	Autophagy and mitophagy flux in young and aged skeletal muscle following chronic contractile activity. Journal of Physiology, 2018, 596, 3567-3584.	1.3	100
231	Oleuropein Aglycone Protects against MAO-A-Induced Autophagy Impairment and Cardiomyocyte Death through Activation of TFEB. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-13.	1.9	35
232	An Overview of the Role of Lipofuscin in Age-Related Neurodegeneration. Frontiers in Neuroscience, 2018, 12, 464.	1.4	247
233	Role of the Inflammation-Autophagy-Senescence Integrative Network in Osteoarthritis. Frontiers in Physiology, 2018, 9, 706.	1.3	100
234	Increased Degradation Rates in the Components of the Mitochondrial Oxidative Phosphorylation Chain in the Cerebellum of Old Mice. Frontiers in Aging Neuroscience, 2018, 10, 32.	1.7	18
235	Compromised phagosome maturation underlies RPE pathology in cell culture and whole animal models of Smith-Lemli-Opitz Syndrome. Autophagy, 2018, 14, 1796-1817.	4.3	19
236	MitoQ Loaded Chitosan-Hyaluronan Composite Membranes for Wound Healing. Materials, 2018, 11, 569.	1.3	82
237	Mitochondria: Central Organelles for Melatonin′s Antioxidant and Anti-Aging Actions. Molecules, 2018, 23, 509.	1.7	263

ARTICLE IF CITATIONS # Sodium Iodate Disrupted the Mitochondrial-Lysosomal Axis in Cultured Retinal Pigment Epithelial 238 0.6 16 Cells. Journal of Ocular Pharmacology and Therapeutics, 2018, 34, 500-511. Mitophagy in Intestinal Epithelial Cells Triggers Adaptive Immunity during Tumorigenesis. Cell, 2018, 174, 88-101.e16. 13.5 93 Antifibrotic role of PGC-11±-siRNA against TGF-121-induced renal interstitial fibrosis. Experimental Cell 240 1.2 16 Research, 2018, 370, 160-167. Propolis Reduces the Expression of Autophagy-Related Proteins in Chondrocytes under Interleukin-1Î² Stimulus. International Journal of Molecular Sciences, 2019, 20, 3768. 241 1.8 Enhancing Autophagy Diminishes Aberrant Ca2+ Homeostasis and Arrhythmogenesis in Aging Rabbit Hearts. Frontiers in Physiology, 2019, 10, 1277. 242 1.3 12 The reduction of XIAP is associated with inflammasome activation in RPE: implications for AMD 3.1 pathogenesis. Journal of Neuroinflammation, 2019, 16, 171. Oxidative Stress and Advanced Lipoxidation and Glycation End Products (ALEs and AGEs) in Aging and 244 1.9 287 Age-Related Diseases. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-14. Mitochondrial dysfunction is associated with long-term cognitive impairment in an animal sepsis 245 1.8 model. Clinical Ścience, 2019, 133, 1993-2004. 246 Lifelong aerobic exercise protects against inflammaging and cancer. PLoS ONE, 2019, 14, e0210863. 1.1 60 Age-related dysfunction of the autophago-lysosomal pathway in human endothelial cells. Pflugers Archiv European Journal of Physiology, 2019, 471, 1065-1078. 247 1.3 Oxidative Stress in Neurodegenerative Diseases: From a Mitochondrial Point of View. Oxidative 248 311 1.9 Medicine and Cellular Longevity, 2019, 2019, 1-18. Cathepsin Oxidation Alters Alpha-Synuclein Processing. Frontiers in Neurology, 2019, 10, 530. 1.1 Rsp5 and Mdm30 reshape the mitochondrial network in response to age-induced vacuole stress. 250 0.9 15 Molecular Biology of the Cell, 2019, 30, 2141-2154. Mitochondria- and Oxidative Stress-Targeting Substances in Cognitive Decline-Related Disorders: From Molecular Mechanisms to Clinical Evidence. Oxidative Medicine and Cellular Longevity, 2019, 1.9 2019, 1-26. 252 Mitochondria and Agingâ€"The Role of Exercise as a Countermeasure. Biology, 2019, 8, 40. 1.3 58 Anxiety and task performance changes in an aging mouse model. Biochemical and Biophysical Research Communications, 2019, 514, 246-251. Label-Free Multiphoton Microscopy: The Origin of Fluorophores and Capabilities for Analyzing 254 0.7 15 Biochemical Processes. Biochemistry (Moscow), 2019, 84, 69-88. A combination of chicken embryo extract and a nutritional supplement protect a rat model of aging against<scp>d</scp>-galactose-induced dysfunction of mitochondria and autophagy. Food and Function, 2019, 10, 2774-2784. 2.1

#	Article	IF	CITATIONS
256	The Role of Autophagy in Chondrocyte Metabolism and Osteoarthritis: A Comprehensive Research Review. BioMed Research International, 2019, 2019, 1-7.	0.9	68
257	Phagosomal and mitochondrial alterations in RPE may contribute to KCNJ13 retinopathy. Scientific Reports, 2019, 9, 3793.	1.6	29
258	AMP-activated protein kinase: the current landscape for drug development. Nature Reviews Drug Discovery, 2019, 18, 527-551.	21.5	425
259	Mitochondrial Dysfunction and Aging: Insights from the Analysis of Extracellular Vesicles. International Journal of Molecular Sciences, 2019, 20, 805.	1.8	125
261	Autophagy and LRRK2 in the Aging Brain. Frontiers in Neuroscience, 2019, 13, 1352.	1.4	44
263	Animal Venom Peptides as a Treasure Trove for New Therapeutics Against Neurodegenerative Disorders. Current Medicinal Chemistry, 2019, 26, 4749-4774.	1.2	33
264	Targeting mitochondrial quality control for treating sarcopenia: lessons from physical exercise. Expert Opinion on Therapeutic Targets, 2019, 23, 153-160.	1.5	24
265	Mitochondrial regulation of cardiac aging. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 1853-1864.	1.8	25
266	A Novel Quantitative Method for the Detection of Lipofuscin, the Main By-Product of Cellular Senescence, in Fluids. Methods in Molecular Biology, 2019, 1896, 119-138.	0.4	11
267	Quantification of Autophagy During Senescence. Methods in Molecular Biology, 2019, 1896, 149-157.	0.4	5
268	Cellular Senescence. Methods in Molecular Biology, 2019, , .	0.4	3
269	Postmitotic cell longevity–associated genes: a transcriptional signature of postmitotic maintenance in neural tissues. Neurobiology of Aging, 2019, 74, 147-160.	1.5	4
270	High glucose augments ROS generation regulates mitochondrial dysfunction and apoptosis via stress signalling cascades in keratinocytes. Life Sciences, 2020, 241, 117148.	2.0	153
271	Transcription factor EB agonists from natural products for treating human diseases with impaired autophagy-lysosome pathway. Chinese Medicine, 2020, 15, 123.	1.6	19
272	Lipofuscin in keratinocytes: Production, properties, and consequences of the photosensitization with visible light. Free Radical Biology and Medicine, 2020, 160, 277-292.	1.3	17
273	The Challenge by Multiple Environmental and Biological Factors Induce Inflammation in Aging: Their Role in the Promotion of Chronic Disease. Frontiers in Immunology, 2020, 11, 570083.	2.2	30
274	Intimate Relations—Mitochondria and Ageing. International Journal of Molecular Sciences, 2020, 21, 7580.	1.8	20
275	Mitochondria: A worthwhile object for ultrastructural qualitative characterization and quantification of cells at physiological and pathophysiological states using conventional transmission electron microscopy. Acta Histochemica, 2020, 122, 151646.	0.9	17

	CITATION REI	PORT	
#	Article	IF	CITATIONS
276	Oxidative stress markers in seizures and epilepsy: Methods and applications to models. , 2020, , 109-122.		0
277	The Mitochondrial Unfolded Protein Response: A Hinge Between Healthy and Pathological Aging. Frontiers in Aging Neuroscience, 2020, 12, 581849.	1.7	36
278	An iPSC-Derived Neuron Model of CLN3 Disease Facilitates Small Molecule Phenotypic Screening. ACS Pharmacology and Translational Science, 2020, 3, 931-947.	2.5	14
279	p38δ genetic ablation protects female mice from anthracycline cardiotoxicity. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H775-H786.	1.5	7
280	Tissue-specific Gene Expression Changes Are Associated with Aging in Mice. Genomics, Proteomics and Bioinformatics, 2020, 18, 430-442.	3.0	23
281	Biological Aging and the Cellular Pathogenesis of Huntington's Disease. Journal of Huntington's Disease, 2020, 9, 115-128.	0.9	24
282	Exosomal MiRNA Transfer between Retinal Microglia and RPE. International Journal of Molecular Sciences, 2020, 21, 3541.	1.8	29
283	Programmable ROSâ€Mediated Cancer Therapy via Magnetoâ€Inductions. Advanced Science, 2020, 7, 1902933.	5.6	43
284	Long-lived post-mitotic cell aging: is a telomere clock at play?. Mechanisms of Ageing and Development, 2020, 189, 111256.	2.2	15
285	Generation and Release of Mitochondrial-Derived Vesicles in Health, Aging and Disease. Journal of Clinical Medicine, 2020, 9, 1440.	1.0	54
286	The Role of Autophagy for the Regeneration of the Aging Liver. International Journal of Molecular Sciences, 2020, 21, 3606.	1.8	32
287	Non-invasive monitoring of chronic liver disease via near-infrared and shortwave-infrared imaging of endogenous lipofuscin. Nature Biomedical Engineering, 2020, 4, 801-813.	11.6	34
288	Vascular autophagy in health and disease. Basic Research in Cardiology, 2020, 115, 41.	2.5	58
289	Subclinical Cardiac Microdamage, Motor Severity, and Cognition in Parkinson's Disease. Movement Disorders, 2020, 35, 1863-1868.	2.2	18
290	Finding pathogenic commonalities between Niemann-Pick type C and other lysosomal storage disorders: Opportunities for shared therapeutic interventions. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165875.	1.8	16
291	Inter-Organelle Membrane Contact Sites and Mitochondrial Quality Control during Aging: A Geroscience View. Cells, 2020, 9, 598.	1.8	23
292	Implications of Oxidative Stress and Cellular Senescence in Age-Related Thymus Involution. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-14.	1.9	36
293	Cardiac Damage in Anthracyclines Therapy: Focus on Oxidative Stress and Inflammation. Antioxidants and Redox Signaling, 2020, 32, 1081-1097.	2.5	40

	CITATION	Report	
#	Article	IF	CITATIONS
294	Increased intra-mitochondrial lipofuscin aggregates with spherical dense body formation in mitochondrial myopathy. Journal of the Neurological Sciences, 2020, 413, 116816.	0.3	9
295	Older Adults with Physical Frailty and Sarcopenia Show Increased Levels of Circulating Small Extracellular Vesicles with a Specific Mitochondrial Signature. Cells, 2020, 9, 973.	1.8	44
296	Do You Remember Mitochondria?. Frontiers in Physiology, 2020, 11, 271.	1.3	10
297	miRNA-146a-5p mitigates stress-induced premature senescence of D-galactose-induced primary thymic stromal cells. Cytokine, 2021, 137, 155314.	1.4	6
298	Protein signatures from blood plasma and urine suggest changes in vascular function and IL-12 signaling in elderly with a history of chronic diseases compared with an age-matched healthy cohort. GeroScience, 2021, 43, 593-606.	2.1	9
299	Natural products targeting mitochondria: emerging therapeutics for age-associated neurological disorders. , 2021, 221, 107749.		29
300	Linking mitochondrial dysfunction to sarcopenia. , 2021, , 1-58.		0
301	Nanoplastics as a Potential Environmental Health Factor: From Molecular Interaction to Altered Cellular Function and Human Diseases. Serbian Journal of Experimental and Clinical Research, 2021, .	0.2	0
302	Cellular senescence in the aging retina and developments of senotherapies for age-related macular degeneration. Journal of Neuroinflammation, 2021, 18, 32.	3.1	62
303	The Role of Oxidative Stress in Cardiovascular Aging and Cardiovascular Diseases. Life, 2021, 11, 60.	1.1	60
304	Drosophila models of neuronal aging. , 2021, , 481-490.		0
305	Resveratrol and brain mitochondria. , 2021, , 645-687.		0
306	Importance of Mitochondrial Quality Control in Parkinson's Disease: The Potential Interplay of Mitochondrial Unfolded Protein Response and Mitophagy. , 2021, , 103-131.		0
308	Modulation of Autophagy: A Novel "Rejuvenation―Strategy for the Aging Liver. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-30.	1.9	9
309	Selective Cardiomyocyte Oxidative Stress Leads to Bystander Senescence of Cardiac Stromal Cells. International Journal of Molecular Sciences, 2021, 22, 2245.	1.8	7
310	Mitochondrial Dysfunction Increases Arrhythmic Triggers and Substrates; Potential Anti-arrhythmic Pharmacological Targets. Frontiers in Cardiovascular Medicine, 2021, 8, 646932.	1.1	8
311	Skeletal muscle mitochondria in health and disease. Cell Calcium, 2021, 94, 102357.	1.1	21
312	Cell Death and Inflammation: The Role of Mitochondria in Health and Disease. Cells, 2021, 10, 537.	1.8	86

#	Article	IF	CITATIONS
313	Implication of Dietary Iron-Chelating Bioactive Compounds in Molecular Mechanisms of Oxidative Stress-Induced Cell Ageing. Antioxidants, 2021, 10, 491.	2.2	16
314	CPNE7-Induced Autophagy Restores the Physiological Function of Mature Odontoblasts. Frontiers in Cell and Developmental Biology, 2021, 9, 655498.	1.8	12
315	An energetics perspective on geroscience: mitochondrial protonmotive force and aging. GeroScience, 2021, 43, 1591-1604.	2.1	32
316	Manifestations of Age on Autophagy, Mitophagy and Lysosomes in Skeletal Muscle. Cells, 2021, 10, 1054.	1.8	21
317	Systemic transplantation of adult multipotent stem cells prevents articular cartilage degeneration in a mouse model of accelerated ageing. Immunity and Ageing, 2021, 18, 27.	1.8	3
318	Distinct Mitochondrial Pathologies Caused by Mutations of the Proximal Tubular Enzymes EHHADH and GATM. Frontiers in Physiology, 2021, 12, 715485.	1.3	10
319	Alginate oligosaccharide alleviates Dâ€galactoseâ€induced cardiac ageing via regulating myocardial mitochondria function and integrity in mice. Journal of Cellular and Molecular Medicine, 2021, 25, 7157-7168.	1.6	24
320	PPAR Gamma and Viral Infections of the Brain. International Journal of Molecular Sciences, 2021, 22, 8876.	1.8	15
321	New Avenues for the Treatment of Huntington's Disease. International Journal of Molecular Sciences, 2021, 22, 8363.	1.8	55
322	Heart failure with preserved ejection fraction in humans and mice: embracing clinical complexity in mouse models. European Heart Journal, 2021, 42, 4420-4430.	1.0	65
323	Exacerbated Age-Related Hippocampal Alterations of Microglia Morphology, β-Amyloid and Lipofuscin Deposition and Presenilin Overexpression in Per1â^'/â^'-Mice. Antioxidants, 2021, 10, 1330.	2.2	5
324	Mitochondrial dysfunction in adult midbrain dopamine neurons triggers an early immune response. PLoS Genetics, 2021, 17, e1009822.	1.5	8
326	The bright and dark side of extracellular vesicles in the senescence-associated secretory phenotype. Mechanisms of Ageing and Development, 2020, 189, 111263.	2.2	49
327	MitoTimer-based high-content screen identifies two chemically-related benzothiophene derivatives that enhance basal mitophagy. Biochemical Journal, 2020, 477, 461-475.	1.7	11
328	Development of AD-Like Pathology in Skeletal Muscle. Journal of Parkinson's Disease and Alzheimer's Disease, 2019, 6, 1-10.	1.5	6
329	Aging-Induced Proteostatic Changes in the Rat Hippocampus Identify ARP3, NEB2 and BRAG2 as a Molecular Circuitry for Cognitive Impairment. PLoS ONE, 2013, 8, e75112.	1.1	14
330	The origin of lipofuscin in brown adipocytes of hyperinsulinaemic rats: the role of lipid peroxidation and iron. Histology and Histopathology, 2013, 28, 493-503.	0.5	10
331	Aging on a different scale – chronological versus pathology-related aging. Aging, 2013, 5, 782-788.	1.4	20

		15	0
#	ARTICLE Epigenome-wide gene–age interaction analysis reveals reversed effects of <i>PRODH</i> DNA	IF	CITATIONS
332	methylation on survival between young and elderly early-stage NSCLC patients. Aging, 2020, 12, 10642-10662.	1.4	8
333	The mitochondrial derived peptide humanin is a regulator of lifespan and healthspan. Aging, 2020, 12, 11185-11199.	1.4	67
334	Macrophage Immunometabolism and Inflammaging: Roles of Mitochondrial Dysfunction, Cellular Senescence, CD38, and NAD. Immunometabolism, 2020, 2, e200026.	0.7	33
335	Nutrition and exercise in Pompe disease. Annals of Translational Medicine, 2019, 7, 282-282.	0.7	12
336	Cardiac Aging and Insulin Resistance: Could Insulin/Insulin-Like Growth Factor (IGF) Signaling be used as a Therapeutic Target?. Current Pharmaceutical Design, 2013, 19, 5684-5694.	0.9	26
337	Mitochondrial Tolerance to Drugs and Toxic Agents in Ageing and Disease. Current Drug Targets, 2011, 12, 827-849.	1.0	16
338	Aging and male reproductive function A mitochondrial perspective. Frontiers in Bioscience - Scholar, 2013, S5, 181-197.	0.8	25
339	Mitochondrial Adaptations in Aged Skeletal Muscle: Effect of Exercise Training. Physiological Research, 2017, 66, 1-14.	0.4	14
340	Multiple Roles of Mitochondria in Aging Processes. Physiological Research, 2016, 65, S519-S531.	0.4	41
341	Biomarkers of Replicative Senescence Revisited. Healthy Ageing and Longevity, 2016, , 203-239.	0.2	0
342	Degeneration of Neuronal Mitochondria in Parkinson's Disease: Mitochondrial Turnover in Neuromuscular Junctions of Parkin Mutants Journal of Purdue Undergraduate Research, 2016, 6, 41-48.	0.0	0
343	The Pleiotropic Effect of Physical Exercise on Mitochondrial Dynamics in Aging Skeletal Muscle. , 2016, , 147-182.		0
344	Potential Effect of Bone Marrow-Derived Mesenchymal Stem Cells on Zymogen Granules and Rab3D in Parotid Salivary Glands of Senile Albino Rats. Egyptian Dental Journal, 2018, 64, 1327-1343.	0.1	0
345	Role of Oxidative Stress, Mitochondrial Dysfunction, and Autophagy in Cardiovascular Disease: Its Pathogenesis and Amelioration by Different Small Natural Molecules. , 2019, , 457-487.		0
346	Oxidation and Inflammation in the Immune and Nervous Systems, a Link Between Aging and Anxiety. , 2019, , 1425-1455.		0
347	Oxidative Stress and Heart Failure. , 2019, , 257-311.		1
348	METTL3-mediated m ⁶ A modification of ATG7 regulates autophagy-GATA4 axis to promote cellular senescence and osteoarthritis progression. Annals of the Rheumatic Diseases, 2022, 81, 85-97.	0.5	123
350	Autophagy in Cardiac Physiology and Pathology. , 2022, , 61-86.		0

#	Article	IF	CITATIONS
351	Thermodynamics and Inflammation: Insights into Quantum Biology and Ageing. Quantum Reports, 2022, 4, 47-74.	0.6	5
352	Mitochondrial Extracellular Vesicles in CNS Disorders: New Frontiers in Understanding the Neurological Disorders of the Brain. Frontiers in Molecular Biosciences, 2022, 9, 840364.	1.6	6
353	Evaluation of mRNA expression level of the ATP synthase membrane subunit c locus 1 (ATP5G1) gene in patients with schizophrenia. Biochemistry and Biophysics Reports, 2022, 30, 101234.	0.7	5
354	Vitamin D Impacts on Skeletal Muscle Dysfunction in Patients with COPD Promoting Mitochondrial Health. Biomedicines, 2022, 10, 898.	1.4	10
359	The pathological role of damaged organelles in renal tubular epithelial cells in the progression of acute kidney injury. Cell Death Discovery, 2022, 8, 239.	2.0	13
360	Cardiovascular toxic effects of antitumor agents: Pathogenetic mechanisms. Thrombosis Research, 2022, 213, S95-S102.	0.8	9
361	Analysis and pharmacological modulation of senescence in human epithelial stem cells. Journal of Cellular and Molecular Medicine, 2022, 26, 3977-3994.	1.6	2
362	Oxidative stress-mediated memory impairment during aging and its therapeutic intervention by natural bioactive compounds. Frontiers in Aging Neuroscience, 0, 14, .	1.7	8
363	Keeping the beat against time: Mitochondrial fitness in the aging heart. Frontiers in Aging, 0, 3, .	1.2	4
364	Lithium Benzoate Exerts Neuroprotective Effect by Improving Mitochondrial Function, Attenuating Reactive Oxygen Species, and Protecting Cognition and Memory in an Animal Model of Alzheimer's Disease. Journal of Alzheimer's Disease Reports, 2022, 6, 557-575.	1.2	1
365	Identification of two patterns of mitochondrial DNA-copy number variation in postcentral gyrus during aging, influenced by body mass index and type 2 diabetes. Experimental Gerontology, 2022, 168, 111932.	1.2	1
366	The landscape of aging. Science China Life Sciences, 2022, 65, 2354-2454.	2.3	110
367	Efficiency of Protein Renewal Is Limited by Feed Intake and Not by Protein Lifetime in Aging <i>Caenorhabditis elegans</i> . Journal of Proteome Research, 0, , .	1.8	0
368	Mitochondrial Dysfunction as an Underlying Cause of Skeletal Muscle Disorders. International Journal of Molecular Sciences, 2022, 23, 12926.	1.8	14
369	Anti–Cholestatic Therapy with Obeticholic Acid Improves Short-Term Memory in Bile Duct–Ligated Mice. American Journal of Pathology, 2023, 193, 11-26.	1.9	5
370	Dysregulated proteostasis. , 2023, , 55-103.		0
371	Dentin- und Hartgewebeneubildung nach indirekter und direkter Überkappung der Pulpa. Oralprophylaxe Und Kinderzahnheilkunde, 2017, 39, 27-37.	0.1	0
372	Oxidative Stress-Induced Cellular Senescence in Aging Retina and Age-Related Macular Degeneration. Antioxidants, 2022, 11, 2189.	2.2	10

#	Article	IF	CITATIONS
373	Proton irradiation induced reactive oxygen species promote morphological and functional changes in HepG2 cells. Journal of Structural Biology, 2022, 214, 107919.	1.3	0
374	Expression profile and molecular function of beclin-1 in Epinephelus akaara in response to immune stimuli and oxidative stress. Fish and Shellfish Immunology, 2023, 132, 108490.	1.6	1
375	The Effects of Dietary Interventions on Brain Aging and Neurological Diseases. Nutrients, 2022, 14, 5086.	1.7	9
376	Stochastic survival of the densest and mitochondrial DNA clonal expansion in aging. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	3
377	Understanding Long COVID; Mitochondrial Health and Adaptation—Old Pathways, New Problems. Biomedicines, 2022, 10, 3113.	1.4	19
378	New insights into the interplay between autophagy and cartilage degeneration in osteoarthritis. Frontiers in Cell and Developmental Biology, 0, 10, .	1.8	7
379	Age-Related Dysfunction in Proteostasis and Cellular Quality Control in the Development of Sarcopenia. Cells, 2023, 12, 249.	1.8	12
380	Extensive accumulation of misfolded protein aggregates during natural aging and senescence. Frontiers in Aging Neuroscience, 0, 14, .	1.7	8
381	Mediterranean diet and mitochondria: New findings. Experimental Gerontology, 2023, 176, 112165.	1.2	5
382	Benfotiamine attenuates the high-carbohydrate diet-induced mitochondrial redox imbalance in fish Megalobrama amblycephala by activating SIRT3. Aquaculture, 2023, 572, 739553.	1.7	2
383	Emerging therapeutic targets for osteoarthritis. Expert Opinion on Therapeutic Targets, 2023, 27, 111-120.	1.5	9
384	Cellular rejuvenation: molecular mechanisms and potential therapeutic interventions for diseases. Signal Transduction and Targeted Therapy, 2023, 8, .	7.1	21
385	Role of VPS39, a key tethering protein for endolysosomal trafficking and mitochondria–lysosome crosstalk, in health and disease. Journal of Cellular Biochemistry, 0, , .	1.2	1
386	Potential of Food Protein-Derived Bioactive Peptides against Sarcopenia: A Comprehensive Review. Journal of Agricultural and Food Chemistry, 2023, 71, 5419-5437.	2.4	3
387	Taurine as an Anti-aging Compound: Focus on Mitochondria-related Mechanisms. , 2023, , 137-173.		0
394	The form and function of the animal cell. , 2024, , 509-530.		0