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List of Publications by Year
in descending order

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102 papers	8,297 citations	61857 43 h-index	46693 89 g-index
104 all docs	104 docs citations	104 times ranked	8769 citing authors

#	Article	IF	Citations
1	A Drug Combination Rescues Frataxin-Dependent Neural and Cardiac Pathophysiology in FA Models. Frontiers in Molecular Biosciences, 2022, 9, .	1.6	3
2	Repurposing FDA approved drugs inhibiting mitochondrial function for targeting glioma-stem like cells. Biomedicine and Pharmacotherapy, 2021, 133, 111058.	2.5	19
3	A ketogenic diet impacts markers of mitochondrial mass in a tissue specific manner in aged mice. Aging, 2021, 13, 7914-7930.	1.4	12
4	Identification and functional validation of FDA-approved positive and negative modulators of the mitochondrial calcium uniporter. Cell Reports, 2021, 35, 109275.	2.9	28
5	Shc inhibitor idebenone ameliorates liver injury and fibrosis in dietary NASH in mice. Journal of Biochemical and Molecular Toxicology, 2021, 35, e22876.	1.4	2
6	Dimethyl fumarate dose-dependently increases mitochondrial gene expression and function in muscle and brain of Friedreichâ€™s ataxia model mice. Human Molecular Genetics, 2021, 29, 3954-3965.	1.4	11
7	The Histone H3 K4me3, K27me3, and K27ac Genome-Wide Distributions Are Differently Influenced by Sex in Brain Cortexes and Gastrocnemius of the Alzheimerâ€™s Disease PSAPP Mouse Model. Epigenomes, 2021, 5, 26.	0.8	3
8	Identification of the neuroprotective Shc target in Alzheimer's and validation of the neuroprotective benefit of a set of smallâ€molecule Shc blockers. Alzheimer's and Dementia, 2021, 17, .	0.4	1
9	Cetylpyridinium chloride is a potent AMP-activated kinase (AMPK) inducer and has therapeutic potential in cancer. Mitochondrion, 2020, 50, 19-24.	1.6	7
10	Novel idebenone analogs block Shcâ€™s access to insulin receptor to improve insulin sensitivity. Biomedicine and Pharmacotherapy, 2020, 132, 110823.	2.5	3
11	Novel mTORC1 Inhibitors Kill Glioblastoma Stem Cells. Pharmaceuticals, 2020, 13, 419.	1.7	6
12	Nonphagocytic Activation of NOX2 Is Implicated in Progressive Nonalcoholic Steatohepatitis During Aging. Hepatology, 2020, 72, 1204-1218.	3.6	13
13	Potential biomarker identification for Friedreichâ€™s ataxia using overlapping gene expression patterns in patient cells and mouse dorsal root ganglion. PLoS ONE, 2019, 14, e0223209.	1.1	6
14	Dimethyl fumarate dosing in humans increases frataxin expression: A potential therapy for Friedreichâ€™s Ataxia. PLoS ONE, 2019, 14, e0217776.	1.1	29
15	PPARÎ±-targeted mitochondrial bioenergetics mediate repair of intestinal barriers at the hostâ€“microbe intersection during SIV infection. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24819-24829.	3.3	42
16	An innate immune response and altered nuclear receptor activation defines the spinal cord transcriptome during alpha-tocopherol deficiency in Ttpa-null mice. Free Radical Biology and Medicine, 2018, 120, 289-302.	1.3	18
17	Disruption of mitochondrial function as mechanism for anti-cancer activity of a novel mitochondriotropic menadione derivative. Toxicology, 2018, 393, 123-139.	2.0	35
18	Idebenone is a cytoprotective insulin sensitizer whose mechanism is Shc inhibition. Pharmacological Research, 2018, 137, 89-103.	3.1	21

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19	Small molecules bind human mTOR protein and inhibit mTORC1 specifically. Biochemical Pharmacology, 2018, 155, 298-304.	2.0	10
20	Parkin deficiency accelerates consequences of mitochondrial DNA deletions and Parkinsonism. Neurobiology of Disease, 2017, 100, 30-38.	2.1	26
21	Bipolar cell reduction precedes retinal ganglion neuron loss in a complex 1 knockout mouse model. Brain Research, 2017, 1657, 232-244.	1.1	18
22	Frataxin deficiency impairs mitochondrial biogenesis in cells, mice and humans. Human Molecular Genetics, 2017, 26, 2627-2633.	1.4	44
23	Dimethyl fumarate mediates Nrf2-dependent mitochondrial biogenesis in mice and humans. Human Molecular Genetics, 2017, 26, 2864-2873.	1.4	94
24	Rescue of cell death and inflammation of a mouse model of complex 1-mediated vision loss by repurposed drug molecules. Human Molecular Genetics, 2017, 26, 4929-4936.	1.4	17
25	A Ketogenic Diet Extends Longevity and Healthspan in Adult Mice. Cell Metabolism, 2017, 26, 539-546.e5.	7.2	348
26	Sperm Mitochondrial Function is Affected by Stallion Age and Predicts Post-Thaw Motility. Journal of Equine Veterinary Science, 2017, 50, 52-61.	0.4	17
27	Neurobehavioral deficits in the KIKO mouse model of Friedreichâ€™s ataxia. Behavioural Brain Research, 2017, 316, 183-188.	1.2	19
28	The Eye Drop Preservative Benzalkonium Chloride Potently Induces Mitochondrial Dysfunction and Preferentially Affects LHON Mutant Cells. , 2017, 58, 2406.		79
29	A descriptive pilot study of cytokine production following stimulation of ex-vivo whole blood with commercial therapeutic feline hydrolyzed diets in individual healthy immunotolerant cats. BMC Veterinary Research, 2017, 13, 297.	0.7	5
30	In Vitro Evaluation of Mitochondrial Function and Estrogen Signaling in Cell Lines Exposed to the Antiseptic Cetylpyridinium Chloride. Environmental Health Perspectives, 2017, 125, 087015.	2.8	39
31	Lymphoblast Oxidative Stress Genes as Potential Biomarkers of Disease Severity and Drug Effect in Friedreich's Ataxia. PLoS ONE, 2016, 11, e0153574.	1.1	15
32	p46Shc Inhibits Thiolase and Lipid Oxidation in Mitochondria. Journal of Biological Chemistry, 2016, 291, 12575-12585.	1.6	18
33	Mice with low levels of Shc proteins display reduced glycolytic and increased gluconeogenic activities in liver. Biochemistry and Biophysics Reports, 2016, 7, 273-286.	0.7	4
34	A high-throughput screen for mitochondrial function reveals known and novel mitochondrial toxicants in a library of environmental agents. Mitochondrion, 2016, 31, 79-83.	1.6	9
35	Identification of small molecules that improve ATP synthesis defects conferred by Leber's hereditary optic neuropathy mutations. Mitochondrion, 2016, 30, 177-186.	1.6	11
36	Galectinâ€3 regulates inflammasome activation in cholestatic liver injury. FASEB Journal, 2016, 30, 4202-4213.	0.2	62

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37	Lactate and Pyruvate Are Major Sources of Energy for Stallion Sperm with Dose Effects on Mitochondrial Function, Motility, and ROS Production. Biology of Reproduction, 2016, 95, 34-34.	1.2	72
38	Mitochondrial oxygen consumption is a unique indicator of stallion spermatozoal health and varies with cryopreservation media. Theriogenology, 2016, 86, 1382-1392.	0.9	57
39	Mitochondrial Hspa9/Mortalin regulates erythroid differentiation via iron-sulfur cluster assembly. Mitochondrion, 2016, 26, 94-103.	1.6	28
40	Frataxin Deficiency Promotes Excess Microglial DNA Damage and Inflammation that Is Rescued by PJ34. PLoS ONE, 2016, 11, e0151026.	1.1	31
41	Key Glycolytic Enzyme Activities of Skeletal Muscle Are Decreased under Fed and Fasted States in Mice with Knocked Down Levels of Shc Proteins. PLoS ONE, 2015, 10, e0124204.	1.1	16
42	Dysregulation of Glutamine Transporter SNAT1 in Rett Syndrome Microglia: A Mechanism for Mitochondrial Dysfunction and Neurotoxicity. Journal of Neuroscience, 2015, 35, 2516-2529.	1.7	71
43	Oxidative stress in inherited mitochondrial diseases. Free Radical Biology and Medicine, 2015, 88, 10-17.	1.3	118
44	Mitochondrial complex I deficiency leads to inflammation and retinal ganglion cell death in the Ndufs4 mouse. Human Molecular Genetics, 2015, 24, 2848-2860.	1.4	44
45	Mitochondrial complex I defects increase ubiquitin in substantia nigra. Brain Research, 2015, 1594, 82-91.	1.1	17
46	Dyclonine rescues frataxin deficiency in animal models and buccal cells of patients with Friedreich's ataxia. Human Molecular Genetics, 2014, 23, 6848-6862.	1.4	66
47	Frataxin deficiency increases cyclooxygenase 2 and prostaglandins in cell and animal models of Friedreich's ataxia. Human Molecular Genetics, 2014, 23, 6838-6847.	1.4	26
48	Shc depletion stimulates brown fat activity in vivo and in vitro. Aging Cell, 2014, 13, 1049-1058.	3.0	16
49	High-throughput screening of FDA-approved drugs using oxygen biosensor plates reveals secondary mitofunctional effects. Mitochondrion, 2014, 17, 116-125.	1.6	27
50	The Influence of Shc Proteins on Life Span in Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 1177-1185.	1.7	37
51	Development of an HTS assay for EPHX2 phosphatase activity and screening of nontargeted libraries. Analytical Biochemistry, 2013, 434, 105-111.	1.1	24
52	Effects of alkyl side chain modification of coenzyme Q 10 on mitochondrial respiratory chain function and cytoprotection. Bioorganic and Medicinal Chemistry, 2013, 21, 2346-2354.	1.4	18
53	Frataxin Deficiency Leads to Defects in Expression of Antioxidants and Nrf2 Expression in Dorsal Root Ganglia of the Friedreich's Ataxia YG8R Mouse Model. Antioxidants and Redox Signaling, 2013, 19, 1481-1493.	2.5	127
54	HSC20 interacts with frataxin and is involved in ironâ€“sulfur cluster biogenesis and iron homeostasis. Human Molecular Genetics, 2012, 21, 1457-1469.	1.4	40

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55	OPA1 Mutation and Lateâ€Onset Cardiomyopathy: Mitochondrial Dysfunction and mtDNA Instability. Journal of the American Heart Association, 2012, 1, e003012.	1.6	156
56	Mutant Twinkle increases dopaminergic neurodegeneration, mtDNA deletions and modulates Parkin expression. Human Molecular Genetics, 2012, 21, 5147-5158.	1.4	36
57	Shc proteins influence the activities of enzymes involved in fatty acid oxidation and ketogenesis. Metabolism: Clinical and Experimental, 2012, 61, 1703-1713.	1.5	11
58	The p66^{Shc} knockout mice are short lived under natural condition. Aging Cell, 2012, 11, 162-168.	3.0	70
59	The Shc locus regulates insulin signaling and adiposity in mammals. Aging Cell, 2011, 10, 55-65.	3.0	55
60	Synthesis and characterization of mitoQ and idebenone analogues as mediators of oxygen consumption in mitochondria. Bioorganic and Medicinal Chemistry, 2010, 18, 6429-6441.	1.4	36
61	Decreased Superoxide Production in Macrophages of Long-lived p66Shc Knock-out Mice. Journal of Biological Chemistry, 2010, 285, 1153-1165.	1.6	51
62	Pyrroloquinoline Quinone Stimulates Mitochondrial Biogenesis through cAMP Response Element-binding Protein Phosphorylation and Increased PGC-1Î± Expression. Journal of Biological Chemistry, 2010, 285, 142-152.	1.6	187
63	Oligodendroglial differentiation induces mitochondrial genes and inhibition of mitochondrial function represses oligodendroglial differentiation. Mitochondrion, 2010, 10, 143-150.	1.6	85
64	Inhibition of mitochondrial function induces an integrated stress response in oligodendroglia. Neurobiology of Disease, 2009, 34, 357-365.	2.1	71
65	Biosensor plates detect mitochondrial physiological regulators and mutations in vivo. Analytical Biochemistry, 2009, 385, 176-178.	1.1	18
66	Frataxin deficiency induces Schwann cell inflammation and death. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2009, 1792, 1052-1061.	1.8	76
67	Cell functions impaired by frataxin deficiency are restored by drug-mediated iron relocation. Blood, 2008, 112, 5219-5227.	0.6	120
68	Mitochondrial DNA Deletions and Chloramphenicol Treatment Stimulate the Autophagic Transcript ATG12. Autophagy, 2007, 3, 377-380.	4.3	22
69	Mitochondrial frataxin interacts with ISD11 of the NFS1/ISCU complex and multiple mitochondrial chaperones. Human Molecular Genetics, 2007, 16, 929-941.	1.4	152
70	Frataxin knockdown causes loss of cytoplasmic ironâ€“sulfur cluster functions, redox alterations and induction of heme transcripts. Archives of Biochemistry and Biophysics, 2007, 457, 111-122.	1.4	94
71	Hemin rescues adrenodoxin, heme a and cytochrome oxidase activity in frataxin-deficient oligodendroglioma cells. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2007, 1772, 773-780.	1.8	35
72	Mitochondrial DNA deletions induce the adenosine monophosphateâ€activated protein kinase energy stress pathway and result in decreased secretion of some proteins. Aging Cell, 2007, 6, 619-630.	3.0	20

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73	Mitochondrial DNA deletions inhibit proteasomal activity and stimulate an autophagic transcript. Free Radical Biology and Medicine, 2007, 42, 32-43.	1.3	49
74	Mitochondrial disease activates transcripts of the unfolded protein response and cell cycle and inhibits vesicular secretion and oligodendrocyte-specific transcripts. Mitochondrion, 2006, 6, 161-175.	1.6	59
75	Frataxin, Ironâ€“Sulfur Clusters, Heme, ROS, and Aging. Antioxidants and Redox Signaling, 2006, 8, 506-516.	2.5	96
76	Frataxin deficiency alters heme pathway transcripts and decreases mitochondrial heme metabolites in mammalian cells. Human Molecular Genetics, 2005, 14, 3787-3799.	1.4	98
77	Isolation of transcriptomal changes attributable to LHON mutations and the cybridization process. Brain, 2005, 128, 1026-1037.	3.7	44
78	Decreased expression of genes involved in sulfur amino acid metabolism in frataxin-deficient cells. Human Molecular Genetics, 2003, 12, 1699-1711.	1.4	75
79	Cells Bearing Mutations Causing Leber's Hereditary Optic Neuropathy Are Sensitized to Fas-induced Apoptosis. Journal of Biological Chemistry, 2002, 277, 5810-5815.	1.6	122
80	Reproducible Quantitative PCR of Mitochondrial and Nuclear DNA Copy Number Using the LightCyclerâ„¢. , 2002, 197, 129-137.		39
81	Differentiation-specific effects of LHON mutations introduced into neuronal NT2 cells. Human Molecular Genetics, 2002, 11, 431-438.	1.4	157
82	High-throughput measurement of mitochondrial membrane potential in a neural cell line using a fluorescence plate reader. Biochemical and Biophysical Research Communications, 2002, 298, 750-754.	1.0	32
83	Cellular Characterization of Leukotoxin Diol-Induced Mitochondrial Dysfunction. Archives of Biochemistry and Biophysics, 2001, 392, 32-37.	1.4	56
84	Genetic basis for susceptibility to noise-induced hearing loss in mice. Hearing Research, 2001, 155, 82-90.	0.9	146
85	Frataxin expression rescues mitochondrial dysfunctions in FRDA cells. Human Molecular Genetics, 2001, 10, 2099-2107.	1.4	84
86	Analysis of oxygen consumption and mitochondrial permeability with age in mice. Mechanisms of Ageing and Development, 1998, 101, 245-256.	2.2	58
87	Induction of the Mitochondrial Permeability Transition Causes Release of the Apoptogenic Factor Cytochrome c. Free Radical Biology and Medicine, 1998, 24, 624-631.	1.3	203
88	dATP Causes Specific Release of Cytochrome C from Mitochondria. Biochemical and Biophysical Research Communications, 1998, 250, 454-457.	1.0	47
89	mtDNA Mutations Confer Cellular Sensitivity to Oxidant Stress That Is Partially Rescued by Calcium Depletion and Cyclosporin A. Biochemical and Biophysical Research Communications, 1997, 239, 139-145.	1.0	81
90	Correlated mutagenesis ofbcl2 andhprt loci in blood lymphocytes. , 1997, 29, 36-45.		16

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91	Multiple Origins of a Mitochondrial Mutation Conferring Deafness. Genetics, 1997, 145, 771-776.	1.2	17
92	Degeneration of human oncogenes and mitochondrial genes occurs in cells that exhibit age-related pathology. Experimental Gerontology, 1996, 31, 253-265.	1.2	15
93	Genotypic selection of mitochondrial and oncogenic mutations in human tissue suggests mechanisms of age-related pathophysiology. Mutation Research - DNAging, 1995, 338, 151-159.	3.3	23
94	A molecular and cellular hypothesis for aminoglycoside-induced deafness. Hearing Research, 1994, 78, 27-30.	0.9	59
95	Mitochondrial ribosomal RNA mutation associated with both antibioticâ€“induced and nonâ€“syndromic deafness. Nature Genetics, 1993, 4, 289-294.	9.4	1,123
96	A Molecular basis for human hypersensitivity of aminoglyscoside antibiotics. Nucleic Acids Research, 1993, 21, 4174-4179.	6.5	231
97	Deleterious mitochondrial DNA mutations accumulate in aging human tissues. Mutation Research - DNAging, 1992, 275, 157-167.	3.3	187
98	Mosaicism for a specific somatic mitochondrial DNA mutation in adult human brain. Nature Genetics, 1992, 2, 318-323.	9.4	405
99	Using the polymerase chain reaction to estimate mutation frequencies and rates in human cells. Mutation Research - Reviews in Genetic Toxicology, 1992, 277, 239-249.	3.0	25
100	Detection of a specific mitochondrial DNA deletion in tissues of older humans. Nucleic Acids Research, 1990, 18, 6927-6933.	6.5	764
101	A simple method for site-directed mutagenesis using the polymerase chain reaction. Nucleic Acids Research, 1989, 17, 6545-6551.	6.5	652
102	Deficient repair of chemical adducts in Î± DNA of monkey cells. Cell, 1982, 28, 613-619.	13.5	108