

# Wolfram S Kunz

## List of Publications by Year in descending order

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227  
papers

13,687  
citations

20817

60  
h-index

29157

104  
g-index

244  
all docs

244  
docs citations

244  
times ranked

19823  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of shared heritability in common disorders of the brain. <i>Science</i> , 2018, 360, .	12.6	1,085
2	Analysis of mitochondrial function in situ in permeabilized muscle fibers, tissues and cells. <i>Nature Protocols</i> , 2008, 3, 965-976.	12.0	666
3	Characterization of Superoxide-producing Sites in Isolated Brain Mitochondria. <i>Journal of Biological Chemistry</i> , 2004, 279, 4127-4135.	3.4	443
4	Parkinson Phenotype in Aged PINK1-Deficient Mice Is Accompanied by Progressive Mitochondrial Dysfunction in Absence of Neurodegeneration. <i>PLoS ONE</i> , 2009, 4, e5777.	2.5	305
5	Permeabilized cell and skinned fiber techniques in studies of mitochondrial function in vitro. <i>Molecular and Cellular Biochemistry</i> , 1998, 184, 81-100.	3.1	302
6	Genetic determinants of common epilepsies: a meta-analysis of genome-wide association studies. <i>Lancet Neurology</i> , The, 2014, 13, 893-903.	10.2	264
7	Recombination of Human Mitochondrial DNA. <i>Science</i> , 2004, 304, 981-981.	12.6	253
8	Impairment of mitochondrial function in skeletal muscle of patients with amyotrophic lateral sclerosis. <i>Journal of the Neurological Sciences</i> , 1998, 156, 65-72.	0.6	252
9	Ultra-Rare Genetic Variation in the Epilepsies: A Whole-Exome Sequencing Study of 17,606 Individuals. <i>American Journal of Human Genetics</i> , 2019, 105, 267-282.	6.2	237
10	Mitochondrial complex I deficiency in the epileptic focus of patients with temporal lobe epilepsy. <i>Annals of Neurology</i> , 2000, 48, 766-773.	5.3	201
11	Loss-of-function mutations in MGME1 impair mtDNA replication and cause multisystemic mitochondrial disease. <i>Nature Genetics</i> , 2013, 45, 214-219.	21.4	198
12	Mitochondrial dysfunction, peroxidation damage and changes in glutathione metabolism in PARK6. <i>Neurobiology of Disease</i> , 2007, 25, 401-411.	4.4	180
13	Mitochondrial dysfunction and seizures: the neuronal energy crisis. <i>Lancet Neurology</i> , The, 2015, 14, 956-966.	10.2	176
14	Impaired mitochondrial oxidative phosphorylation in skeletal muscle of the dystrophin-deficient mdx mouse. <i>Molecular and Cellular Biochemistry</i> , 1998, 183, 87-96.	3.1	174
15	Epilepsy, hippocampal sclerosis and febrile seizures linked by common genetic variation around SCN1A. <i>Brain</i> , 2013, 136, 3140-3150.	7.6	168
16	Neurobehavioral Outcome Prediction After Cardiac Surgery. <i>Stroke</i> , 2000, 31, 645-650.	2.0	155
17	Mitochondrial potassium channels. <i>IUBMB Life</i> , 2009, 61, 134-143.	3.4	153
18	Linear mitochondrial DNA is rapidly degraded by components of the replication machinery. <i>Nature Communications</i> , 2018, 9, 1727.	12.8	151

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19	Mitochondrial dysfunction in epilepsy. <i>Mitochondrion</i> , 2012, 12, 35-40.	3.4	143
20	Seizure-dependent modulation of mitochondrial oxidative phosphorylation in rat hippocampus. <i>European Journal of Neuroscience</i> , 2002, 15, 1105-1114.	2.6	142
21	Myofiber integrity depends on desmin network targeting to Z-disks and costameres via distinct plectin isoforms. <i>Journal of Cell Biology</i> , 2008, 181, 667-681.	5.2	138
22	Genome-wide association analysis of genetic generalized epilepsies implicates susceptibility loci at 1q43, 2p16.1, 2q22.3 and 17q21.32. <i>Human Molecular Genetics</i> , 2012, 21, 5359-5372.	2.9	134
23	Fear Processing and Social Networking in the Absence of a Functional Amygdala. <i>Biological Psychiatry</i> , 2012, 72, 70-77.	1.3	123
24	Primary Skin Fibroblasts as a Model of Parkinson's Disease. <i>Molecular Neurobiology</i> , 2012, 46, 20-27.	4.0	121
25	The Mechanism of Neuroprotection by Topiramate in an Animal Model of Epilepsy. <i>Epilepsia</i> , 2004, 45, 1478-1487.	5.1	115
26	Contribution of different enzymes to flavoprotein fluorescence of isolated rat liver mitochondria. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1985, 841, 237-246.	2.4	113
27	Functional Imaging of Mitochondria in Saponin-permeabilized Mice Muscle Fibers. <i>Journal of Cell Biology</i> , 1998, 140, 1091-1099.	5.2	113
28	Permeabilized cell and skinned fiber techniques in studies of mitochondrial function in vivo. , 1998, , 81-100.		112
29	Visualization of defective mitochondrial function in skeletal muscle fibers of patients with sporadic amyotrophic lateral sclerosis. <i>Journal of the Neurological Sciences</i> , 1999, 169, 133-139.	0.6	111
30	BK channel openers inhibit ROS production of isolated rat brain mitochondria. <i>Experimental Neurology</i> , 2008, 212, 543-547.	4.1	109
31	The role of mitochondria in epileptogenesis. <i>Current Opinion in Neurology</i> , 2002, 15, 179-184.	3.6	103
32	Functional characterization of mitochondrial oxidative phosphorylation in saponin-skinned human muscle fibers. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993, 1144, 46-53.	1.0	102
33	Mitochondrial involvement in temporal lobe epilepsy. <i>Experimental Neurology</i> , 2009, 218, 326-332.	4.1	102
34	Disorganization of the Desmin Cytoskeleton and Mitochondrial Dysfunction in Plectin-Related Epidermolysis Bullosa Simplex with Muscular Dystrophy. <i>Journal of Neuropathology and Experimental Neurology</i> , 2002, 61, 520-530.	1.7	96
35	On noxious desmin: functional effects of a novel heterozygous desmin insertion mutation on the extrasarcomeric desmin cytoskeleton and mitochondria. <i>Human Molecular Genetics</i> , 2003, 12, 657-669.	2.9	91
36	Burden Analysis of Rare Microdeletions Suggests a Strong Impact of Neurodevelopmental Genes in Genetic Generalised Epilepsies. <i>PLoS Genetics</i> , 2015, 11, e1005226.	3.5	91

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37	Opening of potassium channels modulates mitochondrial function in rat skeletal muscle. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002, 1556, 97-105.	1.0	89
38	Impaired complex I repair causes recessive Leber's hereditary optic neuropathy. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	89
39	Microglial CD33-Related Siglec-E Inhibits Neurotoxicity by Preventing the Phagocytosis-Associated Oxidative Burst. <i>Journal of Neuroscience</i> , 2013, 33, 18270-18276.	3.6	87
40	Potassium channel openers depolarize hippocampal mitochondria. <i>Brain Research</i> , 2001, 892, 42-50.	2.2	86
41	N-acetyl Cysteine Treatment Rescues Cognitive Deficits Induced by Mitochondrial Dysfunction in G72/G30 Transgenic Mice. <i>Neuropsychopharmacology</i> , 2011, 36, 2233-2243.	5.4	84
42	Flux Control of Cytochrome c Oxidase in Human Skeletal Muscle. <i>Journal of Biological Chemistry</i> , 2000, 275, 27741-27745.	3.4	81
43	Mitochondrial potassium channels and reactive oxygen species. <i>FEBS Letters</i> , 2010, 584, 2043-2048.	2.8	80
44	Mitochondrial dysfunction due to Leber's hereditary optic neuropathy as a cause of visual loss during assessment for epilepsy surgery. <i>Epilepsy and Behavior</i> , 2011, 20, 38-43.	1.7	79
45	Mitochondrial dysfunction in neurodegenerative disorders. <i>Biochemical Society Transactions</i> , 2007, 35, 1228-1231.	3.4	77
46	Mosaic Deficiency in Mitochondrial Oxidative Metabolism Promotes Cardiac Arrhythmia during Aging. <i>Cell Metabolism</i> , 2015, 21, 667-677.	16.2	73
47	Estimation of flux control coefficients from inhibitor titrations by non-linear regression. <i>FEBS Letters</i> , 1990, 274, 167-170.	2.8	72
48	Subfield-specific Loss of Hippocampal N-acetyl Aspartate in Temporal Lobe Epilepsy. <i>Epilepsia</i> , 2008, 49, 40-50.	5.1	72
49	Sites of generation of reactive oxygen species in homogenates of brain tissue determined with the use of respiratory substrates and inhibitors. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 689-695.	1.0	72
50	Effect of coenzyme Q10 on the mitochondrial function of skin fibroblasts from Parkinson patients. <i>Journal of the Neurological Sciences</i> , 2004, 220, 41-48.	0.6	71
51	A novel potassium channel in skeletal muscle mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 651-659.	1.0	70
52	Complex III-dependent superoxide production of brain mitochondria contributes to seizure-related ROS formation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1163-1170.	1.0	70
53	Correlation of Hippocampal Glucose Oxidation Capacity and Interictal FDG-PET in Temporal Lobe Epilepsy. <i>Epilepsia</i> , 2003, 44, 193-199.	5.1	69
54	Mitochondrial potassium channels: From pharmacology to function. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 715-720.	1.0	69

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55	Calcium Ions Regulate K <sup>+</sup> Uptake into Brain Mitochondria: The Evidence for a Novel Potassium Channel. <i>International Journal of Molecular Sciences</i> , 2009, 10, 1104-1120.	4.1	69
56	Sonography of the median nerve in CMT1A, CMT2A, CMTX, and HNPP. <i>Muscle and Nerve</i> , 2013, 47, 385-395.	2.2	69
57	Characterization of superoxide production sites in isolated rat brain and skeletal muscle mitochondria. <i>Biomedicine and Pharmacotherapy</i> , 2005, 59, 163-168.	5.6	68
58	Quantification of the Content of Fluorescent Flavoproteins in Mitochondria from Liver, Kidney Cortex, Skeletal Muscle, and Brain. <i>Biochemical Medicine and Metabolic Biology</i> , 1993, 50, 103-110.	0.7	67
59	Rare coding variants in genes encoding GABA <sub>A</sub> receptors in genetic generalised epilepsies: an exome-based case-control study. <i>Lancet Neurology</i> , The, 2018, 17, 699-708.	10.2	67
60	Mitofusin 2 mutations affect mitochondrial function by mitochondrial DNA depletion. <i>Acta Neuropathologica</i> , 2013, 125, 245-256.	7.7	65
61	Linear mtDNA fragments and unusual mtDNA rearrangements associated with pathological deficiency of MGME1 exonuclease. <i>Human Molecular Genetics</i> , 2014, 23, 6147-6162.	2.9	64
62	Behavioral changes in G72/G30 transgenic mice. <i>European Neuropsychopharmacology</i> , 2009, 19, 339-348.	0.7	63
63	Loss of UCP2 Attenuates Mitochondrial Dysfunction without Altering ROS Production and Uncoupling Activity. <i>PLoS Genetics</i> , 2014, 10, e1004385.	3.5	63
64	Mitochondrial DNA damage and the aging process—facts and imaginations. <i>Free Radical Research</i> , 2006, 40, 1284-1294.	3.3	62
65	Metabolic progression markers of neurodegeneration in the transgenic G93A-SOD1 mouse model of amyotrophic lateral sclerosis. <i>European Journal of Neuroscience</i> , 2007, 25, 1669-1677.	2.6	61
66	Genetic variation in dopaminergic activity is associated with the risk for psychiatric side effects of levetiracetam. <i>Epilepsia</i> , 2013, 54, 36-44.	5.1	61
67	16p11.2 600 kb Duplications confer risk for typical and atypical Rolandic epilepsy. <i>Human Molecular Genetics</i> , 2014, 23, 6069-6080.	2.9	61
68	Cryopreservation of mitochondria and mitochondrial function in cardiac and skeletal muscle fibers. <i>Analytical Biochemistry</i> , 2003, 319, 296-303.	2.4	60
69	Changes in mitochondrial reactive oxygen species synthesis during differentiation of skeletal muscle cells. <i>Mitochondrion</i> , 2012, 12, 144-148.	3.4	60
70	Evaluation of Methods for the Determination of Mitochondrial Respiratory Chain Enzyme Activities in Human Skeletal Muscle Samples. <i>Analytical Biochemistry</i> , 2000, 279, 55-60.	2.4	59
71	Rare exonic deletions of the <i>RBFOX1</i> gene increase risk of idiopathic generalized epilepsy. <i>Epilepsia</i> , 2013, 54, 265-271.	5.1	59
72	Exon-disrupting deletions of <i>NRXN1</i> in idiopathic generalized epilepsy. <i>Epilepsia</i> , 2013, 54, 256-264.	5.1	59

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73	A homozygous splice-site mutation in <i>CARS2</i> is associated with progressive myoclonic epilepsy. <i>Neurology</i> , 2014, 83, 2183-2187.	1.1	59
74	Different Metabolic Properties of Mitochondrial Oxidative Phosphorylation in Different Cell Types - Important Implications for Mitochondrial Cytopathies. <i>Experimental Physiology</i> , 2003, 88, 149-154.	2.0	57
75	Mutant desmin substantially perturbs mitochondrial morphology, function and maintenance in skeletal muscle tissue. <i>Acta Neuropathologica</i> , 2016, 132, 453-473.	7.7	57
76	Metabolic consequences of a novel missense mutation of the mtDNA CO I gene. <i>Human Molecular Genetics</i> , 2002, 11, 1797-1805.	2.9	56
77	Recombination of mitochondrial DNA in skeletal muscle of individuals with multiple mitochondrial DNA heteroplasmy. <i>Nature Genetics</i> , 2005, 37, 873-877.	21.4	56
78	Binding of copper is a mechanism of homocysteine toxicity leading to COX deficiency and apoptosis in primary neurons, PC12 and SHSY-5Y cells. <i>Neurobiology of Disease</i> , 2006, 23, 725-730.	4.4	55
79	Multidrug Resistance Protein-1 Affects Oxidative Stress, Endothelial Dysfunction, and Atherogenesis via Leukotriene C <sub>4</sub> Export. <i>Circulation</i> , 2008, 117, 2912-2918.	1.6	55
80	Carbamazepine and oxcarbazepine induced hyponatremia in people with epilepsy. <i>Epilepsia</i> , 2017, 58, 1227-1233.	5.1	54
81	Application of inhibitor titrations for the detection of oxidative phosphorylation defects in saponin-skinned muscle fibers of patients with mitochondrial diseases. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1997, 1360, 142-150.	3.8	53
82	Sustained seizure remission on perampanel in progressive myoclonic epilepsy (Lafora disease). <i>Epilepsy &amp; Behavior Case Reports</i> , 2013, 1, 118-121.	1.5	53
83	Volumetric Magnetic Resonance Imaging of Functionally Relevant Structural Alterations in Chronic Epilepsy after Pilocarpine-induced Status Epilepticus in Rats. <i>Epilepsia</i> , 2005, 46, 1021-1026.	5.1	52
84	Re-evaluation of the dysfunction of mitochondrial respiratory chain in skeletal muscle of patients with Parkinson's disease. <i>Journal of Neural Transmission</i> , 2005, 112, 499-518.	2.8	52
85	In vivo quantification of spinal and bulbar motor neuron degeneration in the G93A-SOD1 transgenic mouse model of ALS by T2 relaxation time and apparent diffusion coefficient. <i>Experimental Neurology</i> , 2006, 201, 293-300.	4.1	52
86	Exonic microdeletions of the gephyrin gene impair GABAergic synaptic inhibition in patients with idiopathic generalized epilepsy. <i>Neurobiology of Disease</i> , 2014, 67, 88-96.	4.4	51
87	Altered mitochondrial oxidative phosphorylation in hippocampal slices of kainate-treated rats. <i>Brain Research</i> , 1999, 826, 236-242.	2.2	50
88	The influence of the cytosolic oncotic pressure on the permeability of the mitochondrial outer membrane for ADP: implications for the kinetic properties of mitochondrial creatine kinase and for ADP channelling into the intermembrane space. <i>Molecular and Cellular Biochemistry</i> , 1994, 133-134, 85-104.	3.1	49
89	Increase of Flux Control of Cytochrome c Oxidase in Copper-deficient Mottled Brindled Mice. <i>Journal of Biological Chemistry</i> , 1996, 271, 283-288.	3.4	49
90	Repeats, longevity and the sources of mtDNA deletions: evidence from $\tilde{\Delta}$ deletional spectra™. <i>Trends in Genetics</i> , 2010, 26, 340-343.	6.7	48

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91	Bloodâ€‘brain barrier dysfunction can contribute to pharmacoresistance of seizures. <i>Epilepsia</i> , 2014, 55, 1255-1263.	5.1	47
92	Is There Still Any Role for Oxidative Stress in Mitochondrial DNA-Dependent Aging?. <i>Genes</i> , 2018, 9, 175.	2.4	47
93	Epilepsy subtype-specific copy number burden observed in a genome-wide study of 17â€‘%458 subjects. <i>Brain</i> , 2020, 143, 2106-2118.	7.6	47
94	Spectral properties of fluorescent flavoproteins of isolated rat liver mitochondria. <i>FEBS Letters</i> , 1986, 195, 92-96.	2.8	45
95	Effect of Creatine Supplementation on Metabolite Levels in ALS Motor Cortices. <i>Experimental Neurology</i> , 2001, 172, 377-382.	4.1	45
96	Biallelic Mutations of VAC14 in Pediatric-Onset Neurological Disease. <i>American Journal of Human Genetics</i> , 2016, 99, 188-194.	6.2	45
97	Loss of the smallest subunit of cytochrome c oxidase, COX8A, causes Leigh-like syndrome and epilepsy. <i>Brain</i> , 2016, 139, 338-345.	7.6	44
98	Severe epilepsy as the major symptom of new mutations in the mitochondrial tRNA <sup>Phe</sup> gene. <i>Neurology</i> , 2010, 74, 507-512.	1.1	43
99	The contribution of thioredoxin-2 reductase and glutathione peroxidase to H <sub>2</sub> O <sub>2</sub> detoxification of rat brain mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1901-1906.	1.0	43
100	Genetic variation in <i>CFH</i> predicts phenytoin-induced maculopapular exanthema in European-descent patients. <i>Neurology</i> , 2018, 90, e332-e341.	1.1	43
101	Cytosolic, but not matrix, calcium is essential for adjustment of mitochondrial pyruvate supply. <i>Journal of Biological Chemistry</i> , 2020, 295, 4383-4397.	3.4	43
102	New Insights into the Metabolic Consequences of Large-Scale mtDNA Deletions: A Quantitative Analysis of Biochemical, Morphological, and Genetic Findings in Human Skeletal Muscle. <i>Journal of Neuropathology and Experimental Neurology</i> , 2000, 59, 353-360.	1.7	42
103	Effect of 1-methyl-4-phenylpyridinium on glutathione in rat pheochromocytoma PC 12 cells. <i>Neurochemistry International</i> , 2000, 36, 489-497.	3.8	41
104	Automated CD61 immunoplatelet analysis of thrombocytopenic samples. <i>British Journal of Haematology</i> , 2001, 112, 584-592.	2.5	41
105	Doseâ€‘dependent memory effects and cerebral volume changes after in utero exposure to valproate in the rat. <i>Epilepsia</i> , 2009, 50, 1432-1441.	5.1	41
106	Amelioration of water maze performance deficits by topiramate applied during pilocarpine-induced status epilepticus is negatively dose-dependent. <i>Epilepsy Research</i> , 2007, 73, 173-180.	1.6	39
107	Clonally Expanded Mitochondrial DNA Mutations in Epileptic Individuals With Mutated DNA Polymerase $\beta$ . <i>Journal of Neuropathology and Experimental Neurology</i> , 2008, 67, 857-866.	1.7	39
108	Evaluation of a procedure for the simultaneous determination of oxidized and reduced pyridine nucleotides and adenylates in organic phenol extracts from mitochondria. <i>Analytical Biochemistry</i> , 1992, 202, 162-165.	2.4	38

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109	Mitochondrial dysfunction in myofibrillar myopathy. <i>Neuropathology and Applied Neurobiology</i> , 2003, 29, 45-51.	3.2	38
110	Human Epidermal Keratinocytes Accumulate Superoxide Due to Low Activity of Mn-SOD, Leading to Mitochondrial Functional Impairment. <i>Journal of Investigative Dermatology</i> , 2007, 127, 1084-1093.	0.7	38
111	Extending the phenotypic spectrum of <i>RBFOX1</i> deletions: Sporadic focal epilepsy. <i>Epilepsia</i> , 2015, 56, e129-33.	5.1	38
112	Neuropathological signs of inflammation correlate with mitochondrial DNA deletions in mesial temporal lobe epilepsy. <i>Acta Neuropathologica</i> , 2016, 132, 277-288.	7.7	37
113	Clonal expansions of mitochondrial genomes: implications for in vivo mutational spectra. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2003, 522, 13-19.	1.0	36
114	Complete failure of insulin-transmitted signaling, but not obesity-induced insulin resistance, impairs respiratory chain function in muscle. <i>Journal of Molecular Medicine</i> , 2012, 90, 1145-1160.	3.9	36
115	Neuroimaging characteristics in mitochondrial encephalopathies associated with the m.3243A>G MTTL1 mutation. <i>Journal of Neurology</i> , 2013, 260, 1071-1080.	3.6	36
116	Sub-genic intolerance, ClinVar, and the epilepsies: A whole-exome sequencing study of 29,165 individuals. <i>American Journal of Human Genetics</i> , 2021, 108, 965-982.	6.2	35
117	Control of oxidative phosphorylation in skeletal muscle. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2001, 1504, 12-19.	1.0	34
118	Mitochondrial involvement in neurodegenerative diseases. <i>IUBMB Life</i> , 2013, 65, 263-272.	3.4	34
119	Comparative effectiveness of antiepileptic drugs in juvenile myoclonic epilepsy. <i>Epilepsia Open</i> , 2019, 4, 420-430.	2.4	34
120	Distribution of Flux Control among the Enzymes of Mitochondrial Oxidative Phosphorylation in Calcium-activated Saponin-skinned Rat Musculus Soleus Fibers. <i>FEBS Journal</i> , 1995, 230, 549-554.	0.2	33
121	POLG mutations cause decreased mitochondrial DNA repopulation rates following induced depletion in human fibroblasts. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011, 1812, 321-325.	3.8	33
122	Mitochondrial oxidative phosphorylation in saponin-skinned human muscle fibers is stimulated by caffeine. <i>FEBS Letters</i> , 1993, 323, 188-190.	2.8	32
123	Measurement of Fluorescence Changes of NAD(P)H and of Fluorescent Flavoproteins in Saponin-Skinned Human Skeletal Muscle Fibers. <i>Analytical Biochemistry</i> , 1994, 216, 322-327.	2.4	32
124	Genome-wide linkage meta-analysis identifies susceptibility loci at 2q34 and 13q31.3 for genetic generalized epilepsies. <i>Epilepsia</i> , 2012, 53, 308-318.	5.1	32
125	Oxygen dependence of flux control of cytochrome oxidase - implications for mitochondrial diseases. <i>FEBS Letters</i> , 1998, 422, 33-35.	2.8	31
126	A VASP-Rac Soluble Guanylyl Cyclase Pathway Controls cGMP Production in Adipocytes. <i>Science Signaling</i> , 2012, 5, ra62.	3.6	31



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127	Hemin inhibits the large conductance potassium channel in brain mitochondria: A putative novel mechanism of neurodegeneration. <i>Experimental Neurology</i> , 2014, 257, 70-75.	4.1	31
128	Homozygous mutation in TXNRD1 is associated with genetic generalized epilepsy. <i>Free Radical Biology and Medicine</i> , 2017, 106, 270-277.	2.9	31
129	Mitochondrial dysfunction in neurological disorders with epileptic phenotypes. <i>Journal of Bioenergetics and Biomembranes</i> , 2010, 42, 443-448.	2.3	30
130	Single channel studies of the ATP-regulated potassium channel in brain mitochondria. <i>Journal of Bioenergetics and Biomembranes</i> , 2009, 41, 323-334.	2.3	28
131	Evaluation of electron-transfer flavoprotein and $\text{I}^{\pm}$ -lipoamide dehydrogenase redox states by two-channel fluorimetry and its application to the investigation of $\text{I}^2$ -oxidation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1988, 932, 8-16.	1.0	27
132	Guide to the Pharmacology of Mitochondrial Potassium Channels. <i>Handbook of Experimental Pharmacology</i> , 2016, 240, 103-127.	1.8	27
133	Effects of bc 1 -site electron transfer inhibitors on the absorption spectra of mitochondrial cytochromes b. <i>FEBS Letters</i> , 1985, 181, 95-99.	2.8	26
134	Hippocampal N-acetyl aspartate levels do not mirror neuronal cell densities in creatine-supplemented epileptic rats. <i>European Journal of Neuroscience</i> , 2003, 18, 2292-2300.	2.6	26
135	Chapter 23 Quantification of Superoxide Production by Mouse Brain and Skeletal Muscle Mitochondria. <i>Methods in Enzymology</i> , 2009, 456, 419-437.	1.0	26
136	Comparative effectiveness of antiepileptic drugs in patients with mesial temporal lobe epilepsy with hippocampal sclerosis. <i>Epilepsia</i> , 2017, 58, 1734-1741.	5.1	26
137	Mitochondrial Retinopathy. <i>Ophthalmology Retina</i> , 2022, 6, 65-79.	2.4	26
138	Detection of Respiratory Chain Defects in Cultivated Skin Fibroblasts and Skeletal Muscle of Patients with Parkinson's Disease. <i>Annals of the New York Academy of Sciences</i> , 1999, 893, 426-429.	3.8	25
139	Metabolic Consequences of the Cytochrome c Oxidase Deficiency in Brain of Copper-Deficient Movbr Mice. <i>Journal of Neurochemistry</i> , 2001, 72, 1580-1585.	3.9	25
140	Mitochondrial Diseases - An Expanding Spectrum of Disorders and Affected Genes. <i>Experimental Physiology</i> , 2003, 88, 155-166.	2.0	25
141	Antidiabetic sulphonylureas activate mitochondrial permeability transition in rat skeletal muscle. <i>British Journal of Pharmacology</i> , 2005, 145, 785-791.	5.4	25
142	Mitochondrial Liver Toxicity of Valproic Acid and Its Acid Derivatives Is Related to Inhibition of $\text{I}^{\pm}$ -Lipoamide Dehydrogenase. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1912.	4.1	25
143	Oxygraphic Evaluation of Mitochondrial Function in Digitonin-Permeabilized Mononuclear Cells and Cultured Skin Fibroblasts of Patients with Chronic Progressive External Ophthalmoplegia. <i>Biochemical and Molecular Medicine</i> , 1995, 54, 105-111.	1.4	24
144	Heme is required for carbon monoxide activation of mitochondrial BKCa channel. <i>European Journal of Pharmacology</i> , 2020, 881, 173191.	3.5	24

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145	Signaling pathways targeting mitochondrial potassium channels. <i>International Journal of Biochemistry and Cell Biology</i> , 2020, 125, 105792.	2.8	24
146	Effect of b-its 1 -site inhibitors on the midpoint potentials of mitochondrial cytochromes b. <i>FEBS Letters</i> , 1983, 155, 237-240.	2.8	23
147	Primary carnitine deficiency: adult onset lipid storage myopathy with a mild clinical course. <i>Journal of Clinical Neuroscience</i> , 2004, 11, 919-924.	1.5	23
148	Distinct patterns of mitochondrial genome diversity in bonobos ( <i>Pan paniscus</i> ) and humans. <i>BMC Evolutionary Biology</i> , 2010, 10, 270.	3.2	23
149	Novel SCARB2 mutation in action myoclonus-renal failure syndrome and evaluation of SCARB2 mutations in isolated AMRF features. <i>BMC Neurology</i> , 2011, 11, 134.	1.8	22
150	Mesial temporal lobe epilepsy associated with KCNT1 mutation. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2017, 45, 181-183.	2.0	22
151	Functional variants in <i>HCN4</i> and <i>CACNA1H</i> may contribute to genetic generalized epilepsy. <i>Epilepsia Open</i> , 2017, 2, 334-342.	2.4	22
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