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	Mitochondrial Retinopathy. Ophthalmology Retina, 2022, 6, 65-79.	2.4	26
2	Genetic testing before epilepsy surgery â€“ An exploratory survey and case collection from German epilepsy centers. Seizure: the Journal of the British Epilepsy Association, 2022, 95, 4-10.	2.0	11
3	Association of ultraâ€rare coding variants with genetic generalized epilepsy: A caseâ€“control whole exome sequencing study. Epilepsia, 2022, 63, 723-735.	5.1	8
4	Defective lipid signalling caused by mutations inPIK3C2Bunderlies focal epilepsy. Brain, 2022, 145, 2313-2331.	7.6	10
5	Large Phenotypic Variation of Individuals from a Family with a Novel ASPM Mutation Associated with Microcephaly, Epilepsy, and Behavioral and Cognitive Deficits. Genes, 2022, 13, 429.	2.4	1
6	Spectrum of Phenotypic, Genetic, and Functional Characteristics in Patients With Epilepsy With KCNC2 Pathogenic Variants. Neurology, 2022, 98, .	1.1	11
7	Novel Pathogenic Sequence Variation m.5789T>C Causes NARP Syndrome and Promotes Formation of Deletions of the Mitochondrial Genome. Neurology: Genetics, 2022, 8, e660.	1.9	3
8	A pharmacogenomic assessment of psychiatric adverse drug reactions to levetiracetam. Epilepsia, 2022, 63, 1563-1570.	5.1	11
9	Molecular and Functional Effects of Loss of Cytochrome c Oxidase Subunit 8A. Biochemistry (Moscow), 2021, 86, 33-43.	1.5	2
10	Novel KCNH1 Mutations Associated with Epilepsy: Broadening the Phenotypic Spectrum of KCNH1-Associated Diseases. Genes, 2021, 12, 132.	2.4	7
11	Impaired complex I repair causes recessive Leberâ€™s hereditary optic neuropathy. Journal of Clinical Investigation, 2021, 131, .	8.2	89
12	Impairment of mitochondrial oxidative phosphorylation in skin fibroblasts of SALS and FALS patients is rescued by in vitro treatment with ROS scavengers. Experimental Neurology, 2021, 339, 113620.	4.1	16
13	Assessing the role of rare genetic variants in drugâ€resistant, nonâ€lesional focal epilepsy. Annals of Clinical and Translational Neurology, 2021, 8, 1376-1387.	3.7	16
14	Sub-genic intolerance, ClinVar, and the epilepsies: A whole-exome sequencing study of 29,165 individuals. American Journal of Human Genetics, 2021, 108, 965-982.	6.2	35
15	Role of Common Genetic Variants for Drug-Resistance to Specific Anti-Seizure Medications. Frontiers in Pharmacology, 2021, 12, 688386.	3.5	6
16	Using common genetic variants to find drugs for common epilepsies. Brain Communications, 2021, 3, fcab287.	3.3	9
17	Reply to Rutter et al.: The roles of cytosolic and intramitochondrial Ca2+ and the mitochondrial Ca2+-uniporter (MCU) in the stimulation of mammalian oxidative phosphorylation. Journal of Biological Chemistry, 2020, 295, 10507.	3.4	0
18	Heme is required for carbon monoxide activation of mitochondrial BKCa channel. European Journal of Pharmacology, 2020, 881, 173191.	3.5	24

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19	Pharmacoresponse in genetic generalized epilepsy: a genome-wide association study. Pharmacogenomics, 2020, 21, 325-335.	1.3	21
20	Signaling pathways targeting mitochondrial potassium channels. International Journal of Biochemistry and Cell Biology, 2020, 125, 105792.	2.8	24
21	Epilepsy subtype-specific copy number burden observed in a genome-wide study of 17â€‰458 subjects. Brain, 2020, 143, 2106-2118.	7.6	47
22	Testing association of rare genetic variants with resistance to three common antiseizure medications. Epilepsia, 2020, 61, 657-666.	5.1	22
23	Heart failure after pressure overload in autosomal-dominant desminopathies: Lessons from heterozygous DES-p.R349P knock-in mice. PLoS ONE, 2020, 15, e0228913.	2.5	4
24	Cytosolic, but not matrix, calcium is essential for adjustment of mitochondrial pyruvate supply. Journal of Biological Chemistry, 2020, 295, 4383-4397.	3.4	43
25	Ultra-Rare Genetic Variation in the Epilepsies: A Whole-Exome Sequencing Study of 17,606 Individuals. American Journal of Human Genetics, 2019, 105, 267-282.	6.2	237
26	Quasi-Mendelian paternal inheritance of mitochondrial DNA: A notorious artifact, or anticipated behavior?. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14797-14798.	7.1	17
27	Comparative effectiveness of antiepileptic drugs in juvenile myoclonic epilepsy. Epilepsia Open, 2019, 4, 420-430.	2.4	34
28	Genomic and clinical predictors of lacosamide response in refractory epilepsies. Epilepsia Open, 2019, 4, 563-571.	2.4	12
29	Retinoencephalopathy with occipital lobe epilepsy in an OPA-1 mutation carrier. Seizure: the Journal of the British Epilepsy Association, 2019, 66, 1-3.	2.0	1
30	Replication fork rescue in mammalian mitochondria. Scientific Reports, 2019, 9, 8785.	3.3	20
31	Distinct segregation of the pathogenic m.5667G>A mitochondrial tRNAAsn mutation in extraocular and skeletal muscle in chronic progressive external ophthalmoplegia. Neuromuscular Disorders, 2019, 29, 358-367.	0.6	8
32	No evidence for a BRD 2 promoter hypermethylation inÂblood leukocytes of Europeans with juvenile myoclonicÂepilepsy. Epilepsia, 2019, 60, e31-e36.	5.1	4
33	Transcriptome-wide Profiling of Cerebral Cavernous Malformations Patients Reveal Important Long noncoding RNA molecular signatures. Scientific Reports, 2019, 9, 18203.	3.3	14
34	A genomeâ€wide association study of sodium levels and drug metabolism in an epilepsy cohort treated with carbamazepine and oxcarbazepine. Epilepsia Open, 2019, 4, 102-109.	2.4	9
35	Genetic variation in CFH predicts phenytoin-induced maculopapular exanthema in European-descent patients. Neurology, 2018, 90, e332-e341.	1.1	43
36	Linear mitochondrial DNA is rapidly degraded by components of the replication machinery. Nature Communications, 2018, 9, 1727.	12.8	151

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37	Peripheral nerve atrophy together with higher cerebrospinal fluid progranulin indicate axonal damage in amyotrophic lateral sclerosis. Muscle and Nerve, 2018, 57, 273-278.	2.2	17
38	Mitochondrial BK Channel Openers CGS7181 and CGS7184 Exhibit Cytotoxic Properties. International Journal of Molecular Sciences, 2018, 19, 353.	4.1	17
39	Analysis of shared heritability in common disorders of the brain. Science, 2018, 360, .	12.6	1,085
40	Rare coding variants in genes encoding GABAA receptors in genetic generalised epilepsies: an exome-based case-control study. Lancet Neurology, The, 2018, 17, 699-708.	10.2	67
41	Is There Still Any Role for Oxidative Stress in Mitochondrial DNA-Dependent Aging?. Genes, 2018, 9, 175.	2.4	47
42	Mesial temporal lobe epilepsy associated with KCNT1 mutation. Seizure: the Journal of the British Epilepsy Association, 2017, 45, 181-183.	2.0	22
43	Homozygous mutation in TXNRD1 is associated with genetic generalized epilepsy. Free Radical Biology and Medicine, 2017, 106, 270-277.	2.9	31
44	Camptocormia and shuffling gait due to a novel MT-TV mutation: Diagnostic pitfalls. Neurology: Genetics, 2017, 3, e147.	1.9	3
45	Carbamazepineâ€•and oxcarbazepineâ€•induced hyponatremia in people with epilepsy. Epilepsia, 2017, 58, 1227-1233.	5.1	54
46	Comparative effectiveness of antiepileptic drugs in patients with mesial temporal lobe epilepsy with hippocampal sclerosis. Epilepsia, 2017, 58, 1734-1741.	5.1	26
47	Functional variants in <scp>HCN</scp>4 and <scp>CACNA</scp>1H may contribute to genetic generalized epilepsy. Epilepsia Open, 2017, 2, 334-342.	2.4	22
48	Metabolic Epilepsiesâ€"Commemorative Issue in Honor of Professor Uwe Heinemann. International Journal of Molecular Sciences, 2017, 18, 2499.	4.1	0
49	Mitochondrial Liver Toxicity of Valproic Acid and Its Acid Derivatives Is Related to Inhibition of Î±-Lipoamide Dehydrogenase. International Journal of Molecular Sciences, 2017, 18, 1912.	4.1	25
50	Mutant desmin substantially perturbs mitochondrial morphology, function and maintenance in skeletal muscle tissue. Acta Neuropathologica, 2016, 132, 453-473.	7.7	57
51	Guide to the Pharmacology of Mitochondrial Potassium Channels. Handbook of Experimental Pharmacology, 2016, 240, 103-127.	1.8	27
52	Biallelic Mutations of VAC14 in Pediatric-Onset Neurological Disease. American Journal of Human Genetics, 2016, 99, 188-194.	6.2	45
53	Neuropathological signs of inflammation correlate with mitochondrial DNA deletions in mesial temporal lobe epilepsy. Acta Neuropathologica, 2016, 132, 277-288.	7.7	37
54	Loss of the smallest subunit of cytochrome c oxidase, COX8A, causes Leigh-like syndrome and epilepsy. Brain, 2016, 139, 338-345.	7.6	44

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55	Evaluation of Presumably Disease Causing SCN1A Variants in a Cohort of Common Epilepsy Syndromes. PLoS ONE, 2016, 11, e0150426.	2.5	22
56	Extending the phenotypic spectrum of <scp>RBFOX</scp>1 deletions: Sporadic focal epilepsy. Epilepsia, 2015, 56, e129-33.	5.1	38
57	Burden Analysis of Rare Microdeletions Suggests a Strong Impact of Neurodevelopmental Genes in Genetic Generalised Epilepsies. PLoS Genetics, 2015, 11, e1005226.	3.5	91
58	Do Glut1 (glucose transporter type 1) defects exist in epilepsy patients responding to a ketogenic diet?. Epilepsy Research, 2015, 114, 47-51.	1.6	5
59	Mosaic Deficiency in Mitochondrial Oxidative Metabolism Promotes Cardiac Arrhythmia during Aging. Cell Metabolism, 2015, 21, 667-677.	16.2	73
60	Mitochondrial dysfunction and seizures: the neuronal energy crisis. Lancet Neurology, The, 2015, 14, 956-966.	10.2	176
61	16p11.2 600 kb Duplications confer risk for typical and atypical Rolandic epilepsy. Human Molecular Genetics, 2014, 23, 6069-6080.	2.9	61
62	Loss of UCP2 Attenuates Mitochondrial Dysfunction without Altering ROS Production and Uncoupling Activity. PLoS Genetics, 2014, 10, e1004385.	3.5	63
63	Bloodâ€“brain barrier dysfunction can contribute to pharmacoresistance of seizures. Epilepsia, 2014, 55, 1255-1263.	5.1	47
64	Linear mtDNA fragments and unusual mtDNA rearrangements associated with pathological deficiency of MGME1 exonuclease. Human Molecular Genetics, 2014, 23, 6147-6162.	2.9	64
65	Epileptic Focus and Alteration of Metabolism. International Review of Neurobiology, 2014, 114, 209-243.	2.0	21
66	A homozygous splice-site mutation in CARS2 is associated with progressive myoclonic epilepsy. Neurology, 2014, 83, 2183-2187.	1.1	59
67	Hemin inhibits the large conductance potassium channel in brain mitochondria: A putative novel mechanism of neurodegeneration. Experimental Neurology, 2014, 257, 70-75.	4.1	31
68	Oxyphil Cell Metaplasia in the Parathyroids Is Characterized by Somatic Mitochondrial DNA Mutations in NADH Dehydrogenase Genes and Cytochrome c Oxidase Activityâ€“Impairing Genes. American Journal of Pathology, 2014, 184, 2922-2935.	3.8	16
69	Genetic determinants of common epilepsies: a meta-analysis of genome-wide association studies. Lancet Neurology, The, 2014, 13, 893-903.	10.2	264
70	Expression of Different Subunits of the Calcium-Regulated BK Channel in Rat Brain and Its Putative Cytoprotective Properties. Biophysical Journal, 2014, 106, 738a.	0.5	1
71	Exonic microdeletions of the gephyrin gene impair GABAergic synaptic inhibition in patients with idiopathic generalized epilepsy. Neurobiology of Disease, 2014, 67, 88-96.	4.4	51
72	Neuroimaging characteristics in mitochondrial encephalopathies associated with the m.3243A>G MTTL1 mutation. Journal of Neurology, 2013, 260, 1071-1080.	3.6	36

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73	Mutation in the mitochondrial tRNAIle gene causes progressive myoclonus epilepsy. Seizure: the Journal of the British Epilepsy Association, 2013, 22, 483-486.	2.0	14
74	Mitofusin 2 mutations affect mitochondrial function by mitochondrial DNA depletion. Acta Neuropathologica, 2013, 125, 245-256.	7.7	65
75	Sustained seizure remission on perampanel in progressive myoclonic epilepsy (Lafora disease). Epilepsy & Behavior Case Reports, 2013, 1, 118-121.	1.5	53
76	Genetic variation in dopaminergic activity is associated with the risk for psychiatric side effects of levetiracetam. Epilepsia, 2013, 54, 36-44.	5.1	61
77	Mitochondrial involvement in neurodegenerative diseases. IUBMB Life, 2013, 65, 263-272.	3.4	34
78	Loss-of-function mutations in MGME1 impair mtDNA replication and cause multisystemic mitochondrial disease. Nature Genetics, 2013, 45, 214-219.	21.4	198
79	Epilepsy, hippocampal sclerosis and febrile seizures linked by common genetic variation around SCN1A. Brain, 2013, 136, 3140-3150.	7.6	168
80	Rare exonic deletions of the <scp>RBFOX1</scp> gene increase risk of idiopathic generalized epilepsy. Epilepsia, 2013, 54, 265-271.	5.1	59
81	Exonâ€disrupting deletions of <scp>NRXN1</scp> in idiopathic generalized epilepsy. Epilepsia, 2013, 54, 256-264.	5.1	59
82	Sonography of the median nerve in CMT1A, CMT2A, CMTX, and HNPP. Muscle and Nerve, 2013, 47, 385-395.	2.2	69
83	Microglial CD33-Related Siglec-E Inhibits Neurotoxicity by Preventing the Phagocytosis-Associated Oxidative Burst. Journal of Neuroscience, 2013, 33, 18270-18276.	3.6	87
84	A VASP-Racâ€“Soluble Guanylyl Cyclase Pathway Controls cGMP Production in Adipocytes. Science Signaling, 2012, 5, ra62.	3.6	31
85	Genome-wide association analysis of genetic generalized epilepsies implicates susceptibility loci at 1q43, 2p16.1, 2q22.3 and 17q21.32. Human Molecular Genetics, 2012, 21, 5359-5372.	2.9	134
86	The association between AED-induced cutaneous adverse drug reactions and the HLA-A, -B, and -DRB1 alleles among Caucasian patients: a pilot multicenter study. Zeitschrift Fur Epileptologie, 2012, 25, 289-292.	0.7	2
87	Mitochondrial dysfunction in epilepsy. Mitochondrion, 2012, 12, 35-40.	3.4	143
88	Changes in mitochondrial reactive oxygen species synthesis during differentiation of skeletal muscle cells. Mitochondrion, 2012, 12, 144-148.	3.4	60
89	The contribution of thioredoxin-2 reductase and glutathione peroxidase to H2O2 detoxification of rat brain mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1901-1906.	1.0	43
90	Fear Processing and Social Networking in the Absence of a Functional Amygdala. Biological Psychiatry, 2012, 72, 70-77.	1.3	123

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91	Oxidized Heme - A Novel Inhibitor of Calcium-Dependent BK Channel in Rat Brain Mitochondria. Biophysical Journal, 2012, 102, 162a.	0.5	0
92	Primary Skin Fibroblasts as a Model of Parkinson's Disease. Molecular Neurobiology, 2012, 46, 20-27.	4.0	121
93	Complete failure of insulin-transmitted signaling, but not obesity-induced insulin resistance, impairs respiratory chain function in muscle. Journal of Molecular Medicine, 2012, 90, 1145-1160.	3.9	36
94	Genomeâ€wide linkage metaâ€analysis identifies susceptibility loci at 2q34 and 13q31.3 for genetic generalized epilepsies. Epilepsia, 2012, 53, 308-318.	5.1	32
95	POLG mutations cause decreased mitochondrial DNA repopulation rates following induced depletion in human fibroblasts. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 321-325.	3.8	33
96	Mitochondrial dysfunction due to Leber's hereditary optic neuropathy as a cause of visual loss during assessment for epilepsy surgery. Epilepsy and Behavior, 2011, 20, 38-43.	1.7	79
97	cGMP and cAMP differentially regulate differentiation and function of brown adipocytes. BMC Pharmacology, 2011, 11, .	0.4	5
98	Novel SCARB2 mutation in action myoclonus-renal failure syndrome and evaluation of SCARB2mutations in isolated AMRF features. BMC Neurology, 2011, 11, 134.	1.8	22
99	N-acetyl Cysteine Treatment Rescues Cognitive Deficits Induced by Mitochondrial Dysfunction in G72/G30 Transgenic Mice. Neuropsychopharmacology, 2011, 36, 2233-2243.	5.4	84
100	Mitochondrial dysfunction in neurological disorders with epileptic phenotypes. Journal of Bioenergetics and Biomembranes, 2010, 42, 443-448.	2.3	30
101	Repeats, longevity and the sources of mtDNA deletions: evidence from â€˜deletional spectraâ€™. Trends in Genetics, 2010, 26, 340-343.	6.7	48
102	Distinct patterns of mitochondrial genome diversity in bonobos (Pan paniscus) and humans. BMC Evolutionary Biology, 2010, 10, 270.	3.2	23
103	Complex III-dependent superoxide production of brain mitochondria contributes to seizure-related ROS formation. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1163-1170.	1.0	70
104	POLG mutations lead to decreased mitochondrial DNA repopulation rates after EtBr-induced depletion in fibroblasts. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 53.	1.0	0
105	Tissue specific effects of MnSOD knockout in mice. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 61.	1.0	0
106	Mitochondrial potassium channels and reactive oxygen species. FEBS Letters, 2010, 584, 2043-2048.	2.8	80
107	The Cytoprotective Action of the Potassium Channel Opener BMS-191095 in C2C12 Myoblasts is Related to the Modulation of Calcium Homeostasis. Cellular Physiology and Biochemistry, 2010, 26, 235-246.	1.6	13
108	Severe epilepsy as the major symptom of new mutations in the mitochondrial tRNA ^{Phe} gene. Neurology, 2010, 74, 507-512.	1.1	43

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109	Parkinson Phenotype in Aged PINK1-Deficient Mice Is Accompanied by Progressive Mitochondrial Dysfunction in Absence of Neurodegeneration. PLoS ONE, 2009, 4, e5777.	2.5	305
110	Calcium Ions Regulate K+ Uptake into Brain Mitochondria: The Evidence for a Novel Potassium Channel. International Journal of Molecular Sciences, 2009, 10, 1104-1120.	4.1	69
111	Clonal expansion of different mtDNA variants without selective advantage in solid tumors. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2009, 662, 28-32.	1.0	13
112	Mitochondrial potassium channels. IUBMB Life, 2009, 61, 134-143.	3.4	153
113	Single channel studies of the ATP-regulated potassium channel in brain mitochondria. Journal of Bioenergetics and Biomembranes, 2009, 41, 323-334.	2.3	28
114	Doseâ€dependent memory effects and cerebral volume changes after in utero exposure to valproate in the rat. Epilepsia, 2009, 50, 1432-1441.	5.1	41
115	Mitochondrial involvement in temporal lobe epilepsy. Experimental Neurology, 2009, 218, 326-332.	4.1	102
116	Proof of progression over time: Finally fulminant brain, muscle, and liver affection in Alpers syndrome associated with the A467T POLG1 mutation. Seizure: the Journal of the British Epilepsy Association, 2009, 18, 232-234.	2.0	5
117	Chapter 23 Quantification of Superoxide Production by Mouse Brain and Skeletal Muscle Mitochondria. Methods in Enzymology, 2009, 456, 419-437.	1.0	26
118	Behavioral changes in G72/G30 transgenic mice. European Neuropsychopharmacology, 2009, 19, 339-348.	0.7	63
119	Apraxia of lid opening mimicking ptosis in compound heterozygosity for A467T and W748S POLG1 mutations. Movement Disorders, 2008, 23, 1286-1288.	3.9	7
120	Analysis of mitochondrial function in situ in permeabilized muscle fibers, tissues and cells. Nature Protocols, 2008, 3, 965-976.	12.0	666
121	Subfieldâ€specific Loss of Hippocampal Nâ€acetyl Aspartate in Temporal Lobe Epilepsy. Epilepsia, 2008, 49, 40-50.	5.1	72
122	A novel potassium channel in skeletal muscle mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 651-659.	1.0	70
123	Sites of generation of reactive oxygen species in homogenates of brain tissue determined with the use of respiratory substrates and inhibitors. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 689-695.	1.0	72
124	P/13 Sites of generation of reactive oxygen species in brain tissue. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, S5.	1.0	0
125	BK channel openers inhibit ROS production of isolated rat brain mitochondria. Experimental Neurology, 2008, 212, 543-547.	4.1	109
126	Concerted action of two novel tRNA mtDNA point mutations in chronic progressive external ophthalmoplegia. Bioscience Reports, 2008, 28, 89-96.	2.4	8

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127	Myofiber integrity depends on desmin network targeting to Z-disks and costameres via distinct plectin isoforms. Journal of Cell Biology, 2008, 181, 667-681.	5.2	138
128	Multidrug Resistance Protein-1 Affects Oxidative Stress, Endothelial Dysfunction, and Atherogenesis via Leukotriene C ₄ Export. Circulation, 2008, 117, 2912-2918.	1.6	55
129	Clonally Expanded Mitochondrial DNA Mutations in Epileptic Individuals With Mutated DNA Polymerase Î³. Journal of Neuropathology and Experimental Neurology, 2008, 67, 857-866.	1.7	39
130	On noxious desmin: functional effects of a novel heterozygous desmin insertion mutation on the extrasarcomeric desmin cytoskeleton and mitochondria. Human Molecular Genetics, 2007, 16, 2989-2990.	2.9	7
131	Mitochondrial dysfunction in neurodegenerative disorders. Biochemical Society Transactions, 2007, 35, 1228-1231.	3.4	77
132	Inheritance of Mitochondrial DNA Recombinants in Double-Heteroplasmic Families: Potential Implications for Phylogenetic Analysis. American Journal of Human Genetics, 2007, 80, 298-305.	6.2	20
133	Amelioration of water maze performance deficits by topiramate applied during pilocarpine-induced status epilepticus is negatively dose-dependent. Epilepsy Research, 2007, 73, 173-180.	1.6	39
134	Human Epidermal Keratinocytes Accumulate Superoxide Due to Low Activity of Mn-SOD, Leading to Mitochondrial Functional Impairment. Journal of Investigative Dermatology, 2007, 127, 1084-1093.	0.7	38
135	Metabolic progression markers of neurodegeneration in the transgenic G93A-SOD1 mouse model of amyotrophic lateral sclerosis. European Journal of Neuroscience, 2007, 25, 1669-1677.	2.6	61
136	Mitochondrial dysfunction, peroxidation damage and changes in glutathione metabolism in PARK6. Neurobiology of Disease, 2007, 25, 401-411.	4.4	180
137	Stilbene derivatives inhibit the activity of the inner mitochondrial membrane chloride channels. Cellular and Molecular Biology Letters, 2007, 12, 493-508.	7.0	12
138	Mitochondrial potassium channels: From pharmacology to function. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 715-720.	1.0	69
139	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. Experimental Neurology, 2006, 201, 293-300.	4.1	52
140	Binding of copper is a mechanism of homocysteine toxicity leading to COX deficiency and apoptosis in primary neurons, PC12 and SHSY-5Y cells. Neurobiology of Disease, 2006, 23, 725-730.	4.4	55
141	Mitochondrial DNA damage and the aging processâ€“facts and imaginations. Free Radical Research, 2006, 40, 1284-1294.	3.3	62
142	Volumetric Magnetic Resonance Imaging of Functionally Relevant Structural Alterations in Chronic Epilepsy after Pilocarpine-induced Status Epilepticus in Rats. Epilepsia, 2005, 46, 1021-1026.	5.1	52
143	Antidiabetic sulphonylureas activate mitochondrial permeability transition in rat skeletal muscle. British Journal of Pharmacology, 2005, 145, 785-791.	5.4	25
144	Recombination of mitochondrial DNA in skeletal muscle of individuals with multiple mitochondrial DNA heteroplasmy. Nature Genetics, 2005, 37, 873-877.	21.4	56

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145	Diagnostic value of mitochondrial DNA mutation analysis in juvenile unilateral ptosis. Graefe's Archive for Clinical and Experimental Ophthalmology, 2005, 243, 380-382.	1.9	6
146	Re-evaluation of the dysfunction of mitochondrial respiratory chain in skeletal muscle of patients with Parkinson?s disease. Journal of Neural Transmission, 2005, 112, 499-518.	2.8	52
147	Dopamine transporter SPECT in patients with mitochondrial disorders. Journal of Neurology, Neurosurgery and Psychiatry, 2005, 76, 118-120.	1.9	5
148	Mitochondrial changes in skeletal muscle in amyotrophic lateral sclerosis and other neurogenic atrophiesâ€"a comment. Brain, 2005, 128, E38-E38.	7.6	5
149	Characterization of superoxide production sites in isolated rat brain and skeletal muscle mitochondria. Biomedicine and Pharmacotherapy, 2005, 59, 163-168.	5.6	68
150	Characterization of Superoxide-producing Sites in Isolated Brain Mitochondria. Journal of Biological Chemistry, 2004, 279, 4127-4135.	3.4	443
151	The Mechanism of Neuroprotection by Topiramate in an Animal Model of Epilepsy. Epilepsia, 2004, 45, 1478-1487.	5.1	115
152	Recombination of Human Mitochondrial DNA. Science, 2004, 304, 981-981.	12.6	253
153	The Role of Mitochondria in Epilepsy: Implications for Neurodegenerative Diseases. Toxicology Mechanisms and Methods, 2004, 14, 19-23.	2.7	8
154	Effect of coenzyme Q10 on the mitochondrial function of skin fibroblasts from Parkinson patients. Journal of the Neurological Sciences, 2004, 220, 41-48.	0.6	71
155	Primary carnitine deficiency: adult onset lipid storage myopathy with a mild clinical course. Journal of Clinical Neuroscience, 2004, 11, 919-924.	1.5	23
156	Clonal expansions of mitochondrial genomes: implications for in vivo mutational spectra. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2003, 522, 13-19.	1.0	36
157	Is there mitochondrial dysfunction in amyotrophic lateral sclerosis skeletal muscle?. Annals of Neurology, 2003, 53, 686-687.	5.3	7
158	Cryopreservation of mitochondria and mitochondrial function in cardiac and skeletal muscle fibers. Analytical Biochemistry, 2003, 319, 296-303.	2.4	60
159	Mitochondrial dysfunction in myofibrillar myopathy. Neuropathology and Applied Neurobiology, 2003, 29, 45-51.	3.2	38
160	Correlation of Hippocampal Glucose Oxidation Capacity and Interictal FDGâ€PET in Temporal Lobeâ€ƒEpilepsy. Epilepsia, 2003, 44, 193-199.	5.1	69
161	Hippocampal N-acetyl aspartate levels do not mirror neuronal cell densities in creatine-supplemented epileptic rats. European Journal of Neuroscience, 2003, 18, 2292-2300.	2.6	26
162	Mitochondrial Diseases - An Expanding Spectrum of Disorders and Affected Genes. Experimental Physiology, 2003, 88, 155-166.	2.0	25

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163	Different Metabolic Properties of Mitochondrial Oxidative Phosphorylation in Different Cell Types - Important Implications for Mitochondrial Cytopathies. Experimental Physiology, 2003, 88, 149-154.	2.0	57
164	On noxious desmin: functional effects of a novel heterozygous desmin insertion mutation on the extrasarcomeric desmin cytoskeleton and mitochondria. Human Molecular Genetics, 2003, 12, 657-669.	2.9	91
165	[12] Functional imaging of mitochondrial redox state. Methods in Enzymology, 2002, 352, 135-150.	1.0	14
166	Disorganization of the Desmin Cytoskeleton and Mitochondrial Dysfunction in Plectin-Related Epidermolysis Bullosa Simplex with Muscular Dystrophy. Journal of Neuropathology and Experimental Neurology, 2002, 61, 520-530.	1.7	96
167	Expression Pattern of Mitochondrial Respiratory Chain Enzymes in Skeletal Muscle of Patients Harboring the A3243G Point Mutation or Large-Scale Deletions of Mitochondrial DNA. Journal of Neuropathology and Experimental Neurology, 2002, 61, 885-895.	1.7	9
168	Metabolic consequences of a novel missense mutation of the mtDNA CO I gene. Human Molecular Genetics, 2002, 11, 1797-1805.	2.9	56
169	The role of mitochondria in epileptogenesis. Current Opinion in Neurology, 2002, 15, 179-184.	3.6	103
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