M Flint Beal

List of Publications by Citations

452 papers	68,690 citations	139 h-index	251 g-index
513 ext. papers	73,702 ext. citations	8 avg, IF	7.97 L-index

#	Paper	IF	Citations
452	Mitochondrial dysfunction and oxidative stress in neurodegenerative diseases. *Nature*, **2006**, 443, 787-95	50.4	4313
451	Mice deficient in cellular glutathione peroxidase show increased vulnerability to malonate, 3-nitropropionic acid, and 1-methyl-4-phenyl-1,2,5,6-tetrahydropyridine. *Journal of Neuroscience*, **2000**, 20, 1-7	6.6	1886
450	Dopamine neurons derived from human ES cells efficiently engraft in animal models of Parkinson's disease. *Nature*, **2011**, 480, 547-51	50.4	1294
449	Aging, energy, and oxidative stress in neurodegenerative diseases. *Annals of Neurology*, **1995**, 38, 357-66	9.4	1201
448	Replication of the neurochemical characteristics of Huntington's disease by quinolinic acid. *Nature*, **1986**, 321, 168-71	50.4	1147
447	Motor neurons in Cu/Zn superoxide dismutase-deficient mice develop normally but exhibit enhanced cell death after axonal injury. *Nature Genetics*, **1996**, 13, 43-7	36.3	1042
446	Does impairment of energy metabolism result in excitotoxic neuronal death in neurodegenerative illnesses?. *Annals of Neurology*, **1992**, 31, 119-30	9.4	908
445	Oxidative damage to mitochondrial DNA is increased in Alzheimer's disease. *Annals of Neurology*, **1994**, 36, 747-51	9.4	893
444	Effects of coenzyme Q10 in early Parkinson disease: evidence of slowing of the functional decline. *Archives of Neurology*, **2002**, 59, 1541-50		844
443	Mitochondrial DNA deletions in human brain: regional variability and increase with advanced age. *Nature Genetics*, **1992**, 2, 324-9	36.3	778
442	Mitochondria take center stage in aging and neurodegeneration. *Annals of Neurology*, **2005**, 58, 495-505	9.4	742
441	Oxidative damage and metabolic dysfunction in Huntington's disease: selective vulnerability of the basal ganglia. *Annals of Neurology*, **1997**, 41, 646-53	9.4	735
440	Functional engraftment of human ES cell-derived dopaminergic neurons enriched by coculture with telomerase-immortalized midbrain astrocytes. *Nature Medicine*, **2006**, 12, 1259-68	50.5	677
439	Amyloid beta, mitochondrial dysfunction and synaptic damage: implications for cognitive decline in aging and Alzheimer's disease. *Trends in Molecular Medicine*, **2008**, 14, 45-53	11.5	644
438	Oxidative damage to mitochondrial DNA shows marked age-dependent increases in human brain. *Annals of Neurology*, **1993**, 34, 609-16	9.4	642
437	Oxidatively modified proteins in aging and disease. *Free Radical Biology and Medicine*, **2002**, 32, 797-803	7.8	632
436	Mitochondrial pathology and muscle and dopaminergic neuron degeneration caused by inactivation of Drosophila Pink1 is rescued by Parkin. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 10793-8	11.5	630

435	Parkinson's disease. *Human Molecular Genetics*, **2007**, 16 Spec No. 2, R183-94	5.6	612
434	Neuroprotective effects of creatine in a transgenic animal model of amyotrophic lateral sclerosis. *Nature Medicine*, **1999**, 5, 347-50	50.5	611
433	Intraneuronal Alzheimer abeta42 accumulates in multivesicular bodies and is associated with synaptic pathology. *American Journal of Pathology*, **2002**, 161, 1869-79	5.8	573
432	Evidence of increased oxidative damage in both sporadic and familial amyotrophic lateral sclerosis. *Journal of Neurochemistry*, **1997**, 69, 2064-74	6	551
431	Mitochondrial alpha-ketoglutarate dehydrogenase complex generates reactive oxygen species. *Journal of Neuroscience*, **2004**, 24, 7779-88	6.6	549
430	Genetic or pharmacological iron chelation prevents MPTP-induced neurotoxicity in vivo: a novel therapy for Parkinson's disease. *Neuron*, **2003**, 37, 899-909	13.9	535
429	Mitochondrial biology and oxidative stress in Parkinson disease pathogenesis. *Nature Clinical Practice Neurology*, **2008**, 4, 600-9		530
428	Neural subtype specification of fertilization and nuclear transfer embryonic stem cells and application in parkinsonian mice. *Nature Biotechnology*, **2003**, 21, 1200-7	44.5	529
427	Increased 3-nitrotyrosine in both sporadic and familial amyotrophic lateral sclerosis. *Annals of Neurology*, **1997**, 42, 644-54	9.4	512
426	Experimental models of Parkinson's disease. *Nature Reviews Neuroscience*, **2001**, 2, 325-34	13.5	476
425	Superoxide dismutase activity, oxidative damage, and mitochondrial energy metabolism in familial and sporadic amyotrophic lateral sclerosis. *Journal of Neurochemistry*, **1993**, 61, 2322-5	6	473
424	Neuroprotective effects of creatine in a transgenic mouse model of Huntington's disease. *Journal of Neuroscience*, **2000**, 20, 4389-97	6.6	454
423	Reduced-median-network analysis of complete mitochondrial DNA coding-region sequences for the major African, Asian, and European haplogroups. *American Journal of Human Genetics*, **2002**, 70, 1152-71	11	449
422	Mutated human SOD1 causes dysfunction of oxidative phosphorylation in mitochondria of transgenic mice. *Journal of Biological Chemistry*, **2002**, 277, 29626-33	5.4	442
421	Pink1 regulates mitochondrial dynamics through interaction with the fission/fusion machinery. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 7070-5	11.5	436
420	Alzheimer's brains harbor somatic mtDNA control-region mutations that suppress mitochondrial transcription and replication. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 10726-31	11.5	436
419	Mitochondrial dysfunction in neurodegenerative diseases. *Journal of Pharmacology and Experimental Therapeutics*, **2012**, 342, 619-30	4.7	424
418	Mutant LRRK2(R1441G) BAC transgenic mice recapitulate cardinal features of Parkinson's disease. *Nature Neuroscience*, **2009**, 12, 826-8	25.5	416

417	Stimulation of beta-amyloid precursor protein trafficking by insulin reduces intraneuronal beta-amyloid and requires mitogen-activated protein kinase signaling. *Journal of Neuroscience*, **2001**, 21, 2561-70	6.6	405
416	Inhibition of neuronal nitric oxide synthase prevents MPTP-induced parkinsonism in baboons. *Nature Medicine*, **1996**, 2, 1017-21	50.5	396
415	Mitochondrial dysfunction in Parkinson's disease. *Journal of Neurochemistry*, **2016**, 139 Suppl 1, 216-231	6	391
414	Mitochondria, oxidative damage, and inflammation in Parkinson's disease. *Annals of the New York Academy of Sciences*, **2003**, 991, 120-31	6.5	383
413	Cortical cytochrome oxidase activity is reduced in Alzheimer's disease. *Journal of Neurochemistry*, **1994**, 63, 2179-84	6	383
412	Mitochondria, free radicals, and neurodegeneration. *Current Opinion in Neurobiology*, **1996**, 6, 661-6	7.6	372
411	Dietary supplementation with resveratrol reduces plaque pathology in a transgenic model of Alzheimer's disease. *Neurochemistry International*, **2009**, 54, 111-8	4.4	371
410	Energy metabolism defects in Huntington's disease and effects of coenzyme Q10. *Annals of Neurology*, **1997**, 41, 160-5	9.4	371
409	Neuroprotective effects of creatine and cyclocreatine in animal models of Huntington's disease. *Journal of Neuroscience*, **1998**, 18, 156-63	6.6	365
408	Oxidative stress in Huntington's disease. *Brain Pathology*, **1999**, 9, 147-63	6	353
407	Therapeutic effects of coenzyme Q10 and remacemide in transgenic mouse models of Huntington's disease. *Journal of Neuroscience*, **2002**, 22, 1592-9	6.6	348
406	Neuroprotective effects of phenylbutyrate in the N171-82Q transgenic mouse model of Huntington's disease. *Journal of Biological Chemistry*, **2005**, 280, 556-63	5.4	347
405	Lipid peroxidation in aging brain and Alzheimer's disease. *Free Radical Biology and Medicine*, **2002**, 33, 620-6	7.8	346
404	Exaggerated inflammation, impaired host defense, and neuropathology in progranulin-deficient mice. *Journal of Experimental Medicine*, **2010**, 207, 117-28	16.6	341
403	Age-dependent vulnerability of the striatum to the mitochondrial toxin 3-nitropropionic acid. *Journal of Neurochemistry*, **1993**, 60, 356-9	6	341
402	Inhibition of neuronal nitric oxide synthase by 7-nitroindazole protects against MPTP-induced neurotoxicity in mice. *Journal of Neurochemistry*, **1995**, 64, 936-9	6	332
401	Mechanisms of excitotoxicity in neurologic diseases. *FASEB Journal*, **1992**, 6, 3338-3344	0.9	328
400	Impaired mitochondrial function in psychiatric disorders. *Nature Reviews Neuroscience*, **2012**, 13, 293-307	13.5	323

399	Metabolomic profiling to develop blood biomarkers for Parkinson's disease. *Brain*, **2008**, 131, 389-96	11.2	322
398	Huntingtin aggregates may not predict neuronal death in Huntington's disease. *Annals of Neurology* , **1999**, 46, 842-849	9.4	309
397	Mitochondrial diseases of the brain. *Free Radical Biology and Medicine*, **2013**, 63, 1-29	7.8	305
396	Sensitivity to oxidative stress in DJ-1-deficient dopamine neurons: an ES- derived cell model of primary Parkinsonism. *PLoS Biology*, **2004**, 2, e327	9.7	304
395	Inactivation of Drosophila DJ-1 leads to impairments of oxidative stress response and phosphatidylinositol 3-kinase/Akt signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 13670-5	11.5	303
394	Dopaminergic neuronal loss, reduced neurite complexity and autophagic abnormalities in transgenic mice expressing G2019S mutant LRRK2. *PLoS ONE*, **2011**, 6, e18568	3.7	297
393	Mitochondria in neurodegeneration: acute ischemia and chronic neurodegenerative diseases. *Journal of Cerebral Blood Flow and Metabolism*, **1999**, 19, 351-69	7.3	294
392	Therapeutic effects of cystamine in a murine model of Huntington's disease. *Journal of Neuroscience*, **2002**, 22, 8942-50	6.6	280
391	Neuroprotective strategies involving ROS in Alzheimer disease. *Free Radical Biology and Medicine*, **2011**, 51, 1014-26	7.8	272
390	Kynurenine pathway measurements in Huntington's disease striatum: evidence for reduced formation of kynurenic acid. *Journal of Neurochemistry*, **1990**, 55, 1327-39	6	266
389	Urate as a predictor of the rate of clinical decline in Parkinson disease. *Archives of Neurology*, **2009**, 66, 1460-8		265
388	Involvement of free radicals in excitotoxicity in vivo. *Journal of Neurochemistry*, **1995**, 64, 2239-47	6	265
387	High aggregate burden of somatic mtDNA point mutations in aging and Alzheimer's disease brain. *Human Molecular Genetics*, **2002**, 11, 133-45	5.6	262
386	Age-dependent striatal excitotoxic lesions produced by the endogenous mitochondrial inhibitor malonate. *Journal of Neurochemistry*, **1993**, 61, 1147-50	6	261
385	Caspase-9 activation results in downstream caspase-8 activation and bid cleavage in 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced Parkinson's disease. *Journal of Neuroscience*, **2001**, 21, 9519-28	6.6	256
384	Mitochondrial DNA and respiratory chain function in spinal cords of ALS patients. *Journal of Neurochemistry*, **2002**, 80, 616-25	6	252
383	Increased oxidative damage to DNA in ALS patients. *Free Radical Biology and Medicine*, **2000**, 29, 652-8	7.8	245
382	Oxidative damage in Huntington's disease pathogenesis. *Antioxidants and Redox Signaling*, **2006**, 8, 206173	7.3	243

381	Mitochondria in neurodegeneration: bioenergetic function in cell life and death. *Journal of Cerebral Blood Flow and Metabolism*, **1999**, 19, 231-45	7.3	242
380	Morphologic and histochemical characteristics of a spared subset of striatal neurons in Huntington's disease. *Journal of Neuropathology and Experimental Neurology*, **1987**, 46, 12-27	3.1	242
379	A randomized clinical trial of high-dosage coenzyme Q10 in early Parkinson disease: no evidence of benefit. *JAMA Neurology*, **2014**, 71, 543-52	17.2	239
378	Coenzyme Q10 levels correlate with the activities of complexes I and II/III in mitochondria from parkinsonian and nonparkinsonian subjects. *Annals of Neurology*, **1997**, 42, 261-4	9.4	235
377	Increased plaque burden in brains of APP mutant MnSOD heterozygous knockout mice. *Journal of Neurochemistry*, **2004**, 89, 1308-12	6	232
376	Sparing of acetylcholinesterase-containing striatal neurons in Huntington's disease. *Brain Research*, **1987**, 411, 162-6	3.7	231
375	Mitochondrial loss, dysfunction and altered dynamics in Huntington's disease. *Human Molecular Genetics*, **2010**, 19, 3919-35	5.6	229
374	Are mitochondria critical in the pathogenesis of Alzheimer's disease?. *Brain Research Reviews*, **2005**, 49, 618-32		222
373	Increased 3-nitrotyrosine and oxidative damage in mice with a human copper/zinc superoxide dismutase mutation. *Annals of Neurology*, **1997**, 42, 326-34	9.4	221
372	Chronic 3-nitropropionic acid treatment in baboons replicates the cognitive and motor deficits of Huntington's disease. *Journal of Neuroscience*, **1996**, 16, 3019-25	6.6	220
371	Cytochemical demonstration of oxidative damage in Alzheimer disease by immunochemical enhancement of the carbonyl reaction with 2,4-dinitrophenylhydrazine. *Journal of Histochemistry and Cytochemistry*, **1998**, 46, 731-5	3.4	217
370	Detection of dopaminergic neurotransmitter activity using pharmacologic MRI: correlation with PET, microdialysis, and behavioral data. *Magnetic Resonance in Medicine*, **1997**, 38, 389-98	4.4	216
369	MPTP induces alpha-synuclein aggregation in the substantia nigra of baboons. *NeuroReport*, **2000**, 11, 211-3	1.7	214
368	Matrix metalloproteinase-3: a novel signaling proteinase from apoptotic neuronal cells that activates microglia. *Journal of Neuroscience*, **2005**, 25, 3701-11	6.6	211
367	Beneficial effects of creatine, CoQ10, and lipoic acid in mitochondrial disorders. *Muscle and Nerve*, **2007**, 35, 235-42	3.4	208
366	Selective sparing of NADPH-diaphorase-somatostatin-neuropeptide Y neurons in ischemic gerbil striatum. *Annals of Neurology*, **1990**, 27, 620-5	9.4	201
365	Excitotoxicity and nitric oxide in Parkinson's disease pathogenesis. *Annals of Neurology*, **1998**, 44, S110-4	9.4	200
364	Basic fibroblast growth factor protects against hypoxia-ischemia and NMDA neurotoxicity in neonatal rats. *Journal of Cerebral Blood Flow and Metabolism*, **1993**, 13, 221-8	7.3	199

363	Cortical somatostatin, neuropeptide Y, and NADPH diaphorase neurons: normal anatomy and alterations in Alzheimer's disease. *Annals of Neurology*, **1988**, 23, 105-14	9.4	197
362	Mitochondrial dysfunction and oxidative damage in Alzheimer's and Parkinson's diseases and coenzyme Q10 as a potential treatment. *Journal of Bioenergetics and Biomembranes*, **2004**, 36, 381-6	3.7	196
361	Potential for creatine and other therapies targeting cellular energy dysfunction in neurological disorders. *Annals of Neurology*, **2001**, 49, 561-574	9.4	196
360	Mutant superoxide dismutase 1 forms aggregates in the brain mitochondrial matrix of amyotrophic lateral sclerosis mice. *Journal of Neuroscience*, **2005**, 25, 2463-70	6.6	193
359	Increased oxidative damage to DNA in a transgenic mouse model of Huntington's disease. *Journal of Neurochemistry*, **2001**, 79, 1246-9	6	192
358	Impaired PGC-1alpha function in muscle in Huntington's disease. *Human Molecular Genetics*, **2009**, 18, 3048-65	5.6	191
357	Experimental therapeutics in transgenic mouse models of Huntington's disease. *Nature Reviews Neuroscience*, **2004**, 5, 373-84	13.5	190
356	Mitochondrial approaches for neuroprotection. *Annals of the New York Academy of Sciences*, **2008**, 1147, 395-412	6.5	189
355	Lymphocyte oxidative DNA damage and plasma antioxidants in Alzheimer disease. *Archives of Neurology*, **2002**, 59, 794-8		185
354	The energetics of Huntington's disease. *Neurochemical Research*, **2004**, 29, 531-46	4.6	184
353	Expression profiling of Huntington's disease models suggests that brain-derived neurotrophic factor depletion plays a major role in striatal degeneration. *Journal of Neuroscience*, **2007**, 27, 11758-68	6.6	183
352	Differential sparing of somatostatin-neuropeptide Y and cholinergic neurons following striatal excitotoxin lesions. *Synapse*, **1989**, 3, 38-47	2.4	182
351	1-Methyl-4-phenyl-1,2,3,6-tetrahydropyride neurotoxicity is attenuated in mice overexpressing Bcl-2. *Journal of Neuroscience*, **1998**, 18, 8145-52	6.6	181
350	Neural mitochondrial Ca2+ capacity impairment precedes the onset of motor symptoms in G93A Cu/Zn-superoxide dismutase mutant mice. *Journal of Neurochemistry*, **2006**, 96, 1349-61	6	179
349	Mitochondrial dysfunction in the limelight of Parkinson's disease pathogenesis. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2009**, 1792, 651-63	6.9	178
348	Kynurenic acid concentrations are reduced in Huntington's disease cerebral cortex. *Journal of the Neurological Sciences*, **1992**, 108, 80-7	3.2	178
347	Autophagy in neurodegenerative disorders: pathogenic roles and therapeutic implications. *Trends in Neurosciences*, **2010**, 33, 541-9	13.3	176
346	Mitochondrial dysfunction and oxidative stress in aging and neurodegenerative disease. *Journal of Neural Transmission Supplementum*, **2000**, 59, 133-54		176

345	Mechanisms of reduced striatal NMDA excitotoxicity in type I nitric oxide synthase knock-out mice. *Journal of Neuroscience*, **1997**, 17, 6908-17	6.6	175
344	Combination therapy with coenzyme Q10 and creatine produces additive neuroprotective effects in models of Parkinson's and Huntington's diseases. *Journal of Neurochemistry*, **2009**, 109, 1427-39	6	173
343	Reduction of oxidative stress, amyloid deposition, and memory deficit by manganese superoxide dismutase overexpression in a transgenic mouse model of Alzheimer's disease. *FASEB Journal*, **2009** , 23, 2459-66	0.9	172
342	Peroxisome proliferator-activated receptor-gamma agonist extends survival in transgenic mouse model of amyotrophic lateral sclerosis. *Experimental Neurology*, **2005**, 191, 331-6	5.7	172
341	Increased plasma levels of matrix metalloproteinase-9 in patients with Alzheimer's disease. *Neurochemistry International*, **2003**, 43, 191-6	4.4	172
340	Coenzyme Q10 and nicotinamide block striatal lesions produced by the mitochondrial toxin malonate. *Annals of Neurology*, **1994**, 36, 882-8	9.4	172
339	Mice lacking alpha-synuclein are resistant to mitochondrial toxins. *Neurobiology of Disease*, **2006**, 21, 541-8	7.5	171
338	Cause and consequence: mitochondrial dysfunction initiates and propagates neuronal dysfunction, neuronal death and behavioral abnormalities in age-associated neurodegenerative diseases. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2010**, 1802, 122-34	6.9	168
337	Mitochondrial membrane fluidity and oxidative damage to mitochondrial DNA in aged and AD human brain. *Molecular and Chemical Neuropathology*, **1997**, 31, 53-64		168
336	Celastrol protects against MPTP- and 3-nitropropionic acid-induced neurotoxicity. *Journal of Neurochemistry*, **2005**, 94, 995-1004	6	168
335	Brain energy rescue: an emerging therapeutic concept for neurodegenerative disorders of ageing. *Nature Reviews Drug Discovery*, **2020**, 19, 609-633	64.1	166
334	Inosine to increase serum and cerebrospinal fluid urate in Parkinson disease: a randomized clinical trial. *JAMA Neurology*, **2014**, 71, 141-50	17.2	164
333	A pivotal role of matrix metalloproteinase-3 activity in dopaminergic neuronal degeneration via microglial activation. *FASEB Journal*, **2007**, 21, 179-87	0.9	163
332	Bioenergetic approaches for neuroprotection in Parkinson's disease. *Annals of Neurology*, **2003**, 53 Suppl 3, S39-47; discussion S47-8	9.4	163
331	Chemotherapy for the brain: the antitumor antibiotic mithramycin prolongs survival in a mouse model of Huntington's disease. *Journal of Neuroscience*, **2004**, 24, 10335-42	6.6	162
330	Protection from Alzheimer's-like disease in the mouse by genetic ablation of inducible nitric oxide synthase. *Journal of Experimental Medicine*, **2005**, 202, 1163-9	16.6	161
329	CAG expansion affects the expression of mutant Huntingtin in the Huntington's disease brain. *Neuron*, **1995**, 15, 1193-201	13.9	161
328	Thalidomide and lenalidomide extend survival in a transgenic mouse model of amyotrophic lateral sclerosis. *Journal of Neuroscience*, **2006**, 26, 2467-73	6.6	158

327	Celastrol blocks neuronal cell death and extends life in transgenic mouse model of amyotrophic lateral sclerosis. *Neurodegenerative Diseases*, **2005**, 2, 246-54	2.3	157
326	Neuroprotective effect of Nrf2/ARE activators, CDDO ethylamide and CDDO trifluoroethylamide, in a mouse model of amyotrophic lateral sclerosis. *Free Radical Biology and Medicine*, **2011**, 51, 88-96	7.8	156
325	Uncoupling protein 2 prevents neuronal death including that occurring during seizures: a mechanism for preconditioning. *Endocrinology*, **2003**, 144, 5014-21	4.8	156
324	1-Methyl-4-phenylpyridinium produces excitotoxic lesions in rat striatum as a result of impairment of oxidative metabolism. *Journal of Neurochemistry*, **1992**, 58, 1975-8	6	155
323	Pilot trial of high dosages of coenzyme Q10 in patients with Parkinson's disease. *Experimental Neurology*, **2004**, 188, 491-4	5.7	151
322	Neuropeptides in neurological disease. *Annals of Neurology*, **1986**, 20, 547-65	9.4	150
321	Additive neuroprotective effects of creatine and cyclooxygenase 2 inhibitors in a transgenic mouse model of amyotrophic lateral sclerosis. *Journal of Neurochemistry*, **2004**, 88, 576-82	6	148
320	Neuropeptide Y immunoreactivity is reduced in cerebral cortex in Alzheimer's disease. *Annals of Neurology*, **1986**, 20, 282-8	9.4	147
319	Additive neuroprotective effects of a histone deacetylase inhibitor and a catalytic antioxidant in a transgenic mouse model of amyotrophic lateral sclerosis. *Neurobiology of Disease*, **2006**, 22, 40-9	7.5	144
318	Inhibition of the leucine-rich repeat protein LINGO-1 enhances survival, structure, and function of dopaminergic neurons in Parkinson's disease models. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 14430-5	11.5	143
317	Creatine therapy provides neuroprotection after onset of clinical symptoms in Huntington's disease transgenic mice. *Journal of Neurochemistry*, **2003**, 85, 1359-67	6	143
316	The role of mitochondria in inherited neurodegenerative diseases. *Journal of Neurochemistry*, **2006**, 97, 1659-75	6	142
315	Behavioral deficits and progressive neuropathology in progranulin-deficient mice: a mouse model of frontotemporal dementia. *FASEB Journal*, **2010**, 24, 4639-47	0.9	140
314	The role of mitochondrial dysfunction and neuronal nitric oxide in animal models of neurodegenerative diseases. *Molecular and Cellular Biochemistry*, **1997**, 174, 193-197	4.2	139
313	Cell-permeable peptide antioxidants as a novel therapeutic approach in a mouse model of amyotrophic lateral sclerosis. *Journal of Neurochemistry*, **2006**, 98, 1141-8	6	137
312	Triterpenoids CDDO-ethyl amide and CDDO-trifluoroethyl amide improve the behavioral phenotype and brain pathology in a transgenic mouse model of Huntington's disease. *Free Radical Biology and Medicine*, **2010**, 49, 147-58	7.8	134
311	3-Nitropropionic acid neurotoxicity is attenuated in copper/zinc superoxide dismutase transgenic mice. *Journal of Neurochemistry*, **1995**, 65, 919-22	6	133
310	PGC-1□mitochondrial dysfunction, and Huntington's disease. *Free Radical Biology and Medicine*, **2013**, 62, 37-46	7.8	131

309	Heterogeneous topographic and cellular distribution of huntingtin expression in the normal human neostriatum. *Journal of Neuroscience*, **1997**, 17, 3052-63	6.6	131
308	Age-related microglial activation in 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)-induced dopaminergic neurodegeneration in C57BL/6 mice. *Brain Research*, **2003**, 964, 288-94	3.7	131
307	Manganese superoxide dismutase overexpression attenuates MPTP toxicity. *Neurobiology of Disease*, **1998**, 5, 253-8	7.5	131
306	Nonlinear decrease over time in N-acetyl aspartate levels in the absence of neuronal loss and increases in glutamine and glucose in transgenic Huntington's disease mice. *Journal of Neurochemistry*, **2000**, 74, 2108-19	6	130
305	Metabolomic analysis and signatures in motor neuron disease. *Metabolomics*, **2005**, 1, 101-108	4.7	130
304	PPAR: a therapeutic target in Parkinson's disease. *Journal of Neurochemistry*, **2008**, 106, 506-18	6	129
303	Pulse inhibition of histone deacetylases induces complete resistance to oxidative death in cortical neurons without toxicity and reveals a role for cytoplasmic p21(waf1/cip1) in cell cycle-independent neuroprotection. *Journal of Neuroscience*, **2008**, 28, 163-76	6.6	129
302	Neuroprotective effects of the triterpenoid, CDDO methyl amide, a potent inducer of Nrf2-mediated transcription. *PLoS ONE*, **2009**, 4, e5757	3.7	128
301	The alpha-ketoglutarate-dehydrogenase complex: a mediator between mitochondria and oxidative stress in neurodegeneration. *Molecular Neurobiology*, **2005**, 31, 43-63	6.2	128
300	Targeting Nrf2-mediated gene transcription by extremely potent synthetic triterpenoids attenuate dopaminergic neurotoxicity in the MPTP mouse model of Parkinson's disease. *Antioxidants and Redox Signaling*, **2013**, 18, 139-57	8.4	125
299	Mitochondria targeted peptides protect against 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine neurotoxicity. *Antioxidants and Redox Signaling*, **2009**, 11, 2095-104	8.4	125
298	The role of NADPH oxidase 1-derived reactive oxygen species in paraquat-mediated dopaminergic cell death. *Antioxidants and Redox Signaling*, **2009**, 11, 2105-18	8.4	125
297	Elevated "hydroxyl radical" generation in vivo in an animal model of amyotrophic lateral sclerosis. *Journal of Neurochemistry*, **1998**, 71, 1321-4	6	125
296	Minocycline enhances MPTP toxicity to dopaminergic neurons. *Journal of Neuroscience Research*, **2003**, 74, 278-85	4.4	125
295	Neuroprotective effects of creatine. *Amino Acids*, **2011**, 40, 1305-13	3.5	123
294	Bioenergetic abnormalities in discrete cerebral motor pathways presage spinal cord pathology in the G93A SOD1 mouse model of ALS. *Neurobiology of Disease*, **2006**, 22, 599-610	7.5	123
293	A postmortem study of amino acid neurotransmitters in Alzheimer's disease. *Annals of Neurology*, **1986**, 20, 616-21	9.4	123
292	N-acetyl-L-cysteine improves survival and preserves motor performance in an animal model of familial amyotrophic lateral sclerosis. *NeuroReport*, **2000**, 11, 2491-3	1.7	121

291	Pharmacologic activation of mitochondrial biogenesis exerts widespread beneficial effects in a transgenic mouse model of Huntington's disease. *Human Molecular Genetics*, **2012**, 21, 1124-37	5.6	120
290	NADPH oxidase 1-mediated oxidative stress leads to dopamine neuron death in Parkinson's disease. *Antioxidants and Redox Signaling*, **2012**, 16, 1033-45	8.4	120
289	Remodeling chromatin and stress resistance in the central nervous system: histone deacetylase inhibitors as novel and broadly effective neuroprotective agents. *CNS and Neurological Disorders*, **2005**, 4, 41-50		120
288	Distinct Nrf2 Signaling Mechanisms of Fumaric Acid Esters and Their Role in Neuroprotection against 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine-Induced Experimental Parkinson's-Like Disease. *Journal of Neuroscience*, **2016**, 36, 6332-51	6.6	116
287	Riluzole therapy in Huntington's disease (HD). *Movement Disorders*, **1999**, 14, 326-30	7	115
286	Creatine and its potential therapeutic value for targeting cellular energy impairment in neurodegenerative diseases. *NeuroMolecular Medicine*, **2008**, 10, 275-90	4.6	114
285	PGC-1alpha, a new therapeutic target in Huntington's disease?. *Cell*, **2006**, 127, 465-8	56.2	114
284	Manganese porphyrin given at symptom onset markedly extends survival of ALS mice. *Annals of Neurology*, **2005**, 58, 258-65	9.4	114
283	Age and sex influence on oxidative damage and functional status in human skeletal muscle. *Journal of Muscle Research and Cell Motility*, **2001**, 22, 345-51	3.5	113
282	Oxidative stress biomarkers in sporadic ALS. *Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders*, **2008**, 9, 177-83		112
281	Coenzyme Q10 as a possible treatment for neurodegenerative diseases. *Free Radical Research*, **2002**, 36, 455-60	4	112
280	Neuroprotective effects of L-kynurenine on hypoxia-ischemia and NMDA lesions in neonatal rats. *Journal of Cerebral Blood Flow and Metabolism*, **1992**, 12, 400-7	7.3	112
279	Metabolomic profiling in LRRK2-related Parkinson's disease. *PLoS ONE*, **2009**, 4, e7551	3.7	112
278	Neuroprotective effects of compounds with antioxidant and anti-inflammatory properties in a Drosophila model of Parkinson's disease. *BMC Neuroscience*, **2009**, 10, 109	3.2	110
277	Inhibition of transglutaminase 2 mitigates transcriptional dysregulation in models of Huntington disease. *EMBO Molecular Medicine*, **2010**, 2, 349-70	12	110
276	Coenzyme Q10 effects in neurodegenerative disease. *Neuropsychiatric Disease and Treatment*, **2009** , 5, 597-610	3.1	109
275	Impairment of PGC-1alpha expression, neuropathology and hepatic steatosis in a transgenic mouse model of Huntington's disease following chronic energy deprivation. *Human Molecular Genetics*, **2010**, 19, 3190-205	5.6	108
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