Valina L Dawson

List of Publications by Year
in descending order

371 papers	75,874 citations	492 129 h-index	540 265 g-index
413 all docs	413 docs citations	413 times ranked	66529 citing authors

#	Article	IF	Citations
1	Neurotoxic reactive astrocytes are induced by activated microglia. Nature, 2017, 541, 481-487.	27.8	4,977
2	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
3	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. Cell Death and Differentiation, 2018, 25, 486-541.	11.2	4,036
4	Molecular definitions of cell death subroutines: recommendations of the Nomenclature Committee on Cell Death 2012. Cell Death and Differentiation, 2012, 19, 107-120.	11.2	2,144
5	Mediation of Poly(ADP-Ribose) Polymerase-1-Dependent Cell Death by Apoptosis-Inducing Factor. Science, 2002, 297, 259-263.	12.6	1,671
6	Molecular Pathways of Neurodegeneration in Parkinson's Disease. Science, 2003, 302, 819-822.	12.6	1,530
7	PINK1-dependent recruitment of Parkin to mitochondria in mitophagy. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 378-383.	7.1	1,415
8	MOLECULAR PATHOPHYSIOLOGY OF PARKINSON'S DISEASE. Annual Review of Neuroscience, 2005, 28, 57-87.	10.7	1,111
9	Parkinson's disease-associated mutations in leucine-rich repeat kinase 2 augment kinase activity. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16842-16847.	7.1	1,084
10	Interference by Huntingtin and Atrophin-1 with CBP-Mediated Transcription Leading to Cellular Toxicity. Science, 2001, 291, 2423-2428.	12.6	1,035
11	Inducible nitric oxide synthase stimulates dopaminergic neurodegeneration in the MPTP model of Parkinson disease. Nature Medicine, 1999, 5, 1403-1409.	30.7	1,007
12	Poly(ADP-ribose) polymerase gene disruption renders mice resistant to cerebral ischemia. Nature Medicine, 1997, 3, 1089-1095.	30.7	1,002
13	Parkin functions as an E2-dependent ubiquitinâ€" protein ligase and promotes the degradation of the synaptic vesicle-associated protein, CDCrel-1. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 13354-13359.	7.1	916
14	A novel neuronal messenger molecule in brain: The free radical, nitric oxide. Annals of Neurology, 1992, 32, 297-311.	5.3	837
15	Transneuronal Propagation of Pathologic Î±-Synuclein from the Gut to the Brain Models Parkinsonâ€™s Disease. Neuron, 2019, 103, 627-641.e7.	8.1	830
16	Essential versus accessory aspects of cell death: recommendations of the NCCD 2015. Cell Death and Differentiation, 2015, 22, 58-73.	11.2	811
17	PARIS (ZNF746) Repression of PGC-1Î± Contributes to Neurodegeneration in Parkinson's Disease. Cell, 2011, 144, 689-702.	28.9	796
18	S-Nitrosylation of Parkin Regulates Ubiquitination and Compromises Parkin's Protective Function. Science, 2004, 304, 1328-1331.	12.6	736

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19	Genetic Animal Models of Parkinson's Disease. Neuron, 2010, 66, 646-661.	8.1	714
20	Block of A1 astrocyte conversion by microglia is neuroprotective in models of Parkinsonâ€™s disease. Nature Medicine, 2018, 24, 931-938.	30.7	712
21	Parkin ubiquitinates the Î±-synucleinâ€"interacting protein, synphilin-1: implications for Lewy-body formation in Parkinson disease. Nature Medicine, 2001, 7, 1144-1150.	30.7	710
22	Apoptosis-inducing factor mediates poly(ADP-ribose) (PAR) polymer-induced cell death. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18314-18319.	7.1	655
23	T cells from patients with Parkinsonâ€™s disease recognize Î±-synuclein peptides. Nature, 2017, 546, 656-661.	27.8	618
24	Behavioural abnormalities in male mice lacking neuronal nitric oxide synthase. Nature, 1995, 378, 383-386.	27.8	606
25	Kinase activity of mutant LRRK2 mediates neuronal toxicity. Nature Neuroscience, 2006, 9, 1231-1233.	14.8	587
26	Nitric Oxide Synthase in Models of Focal Ischemia. Stroke, 1997, 28, 1283-1288.	2.0	578
27	Poly(ADP-ribose) (PAR) polymer is a death signal. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18308-18313.	7.1	572
28	Diagnosis and treatment of Parkinson disease: molecules to medicine. Journal of Clinical Investigation, 2006, 116, 1744-1754.	8.2	538
29	Parkinson's disease-associated mutations in LRRK2 link enhanced GTP-binding and kinase activities to neuronal toxicity. Human Molecular Genetics, 2007, 16, 223-232.	2.9	535
30	Pathological Î±-synuclein transmission initiated by binding lymphocyte-activation gene 3. Science, 2016, 353, .	12.6	521
31	Role of AIF in caspase-dependent and caspase-independent cell death. Oncogene, 2004, 23, 2785-2796.	5.9	490
32	Parkin Mediates Nonclassical, Proteasomal-Independent Ubiquitination of Synphilin-1: Implications for Lewy Body Formation. Journal of Neuroscience, 2005, 25, 2002-2009.	3.6	489
33	Localization of LRRK2 to membranous and vesicular structures in mammalian brain. Annals of Neurology, 2006, 60, 557-569.	5.3	479
34	Synphilin-1 associates with Î±-synuclein and promotes the formation of cytosolic inclusions. Nature Genetics, 1999, 22, 110-114.	21.4	473
35	Nitric oxide neurotoxicity. Journal of Chemical Neuroanatomy, 1996, 10, 179-190.	2.1	460
36	Pharmacological Rescue of Mitochondrial Deficits in iPSC-Derived Neural Cells from Patients with Familial Parkinsonâ€™s Disease. Science Translational Medicine, 2012, 4, 141ra90.	12.4	444

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37	Inducible expression of mutant alpha-synuclein decreases proteasome activity and increases sensitivity to mitochondria-dependent apoptosis. Human Molecular Genetics, 2001, 10, 919-926.	2.9	442
38	DJ-1 gene deletion reveals that DJ-1 is an atypical peroxiredoxin-like peroxidase. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14807-14812.	7.1	435
39	Apoptosis-inducing factor is involved in the regulation of caspase-independent neuronal cell death. Journal of Cell Biology, 2002, 158, 507-517.	5.2	434
40	Parthanatos: mitochondrialâ€linked mechanisms and therapeutic opportunities. British Journal of Pharmacology, 2014, 171, 2000-2016.	5.4	432
41	Nuclear and mitochondrial conversations in cell death: PARP-1 and AIF signaling. Trends in Pharmacological Sciences, 2004, 25, 259-264.	8.7	423
42	Immunologic NO Synthase: Elevation in Severe AIDS Dementia and Induction by HIV-1 gp41. Science, 1996, 274, 1917-1921.	12.6	410
43	Oxidative Stress and Genetics in the Pathogenesis of Parkinson's Disease. Neurobiology of Disease, 2000, 7, 240-250.	4.4	397
44	Leucine-rich repeat kinase 2 (LRRK2) interacts with parkin, and mutant LRRK2 induces neuronal degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18676-18681.	7.1	390
45	Mitochondrial localization of the Parkinson's disease related protein DJ-1: implications for pathogenesis. Human Molecular Genetics, 2005, 14, 2063-2073.	2.9	381
46	Lysine 63-linked ubiquitination promotes the formation and autophagic clearance of protein inclusions associated with neurodegenerative diseases. Human Molecular Genetics, 2008, 17, 431-439.	2.9	379
47	Poly(ADP-ribose) polymerase activation mediates 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)-induced parkinsonism. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 5774-5779.	7.1	365
48	Parkinâ€independent mitophagy requires <scp>D</scp>rp1 and maintains the integrity of mammalian heart and brain. EMBO Journal, 2014, 33, 2798-2813.	7.8	361
49	Poly(ADP-Ribose) (PAR) Binding to Apoptosis-Inducing Factor Is Critical for PAR Polymerase-1â€"Dependent Cell Death (Parthanatos). Science Signaling, 2011, 4, ra20.	3.6	360
50	Proteome-wide identification of poly(ADP-ribose) binding proteins and poly(ADP-ribose)-associated protein complexes. Nucleic Acids Research, 2008, 36, 6959-6976.	14.5	359
51	Recent Advances in the Genetics of Parkinson's Disease. Annual Review of Genomics and Human Genetics, 2011, 12, 301-325.	6.2	355
52	Nitric oxide-induced nuclear GAPDH activates p300/CBP and mediates apoptosis. Nature Cell Biology, 2008, 10, 866-873.	10.3	353
53	Inhibitors of leucine-rich repeat kinase-2 protect against models of Parkinson's disease. Nature Medicine, 2010, 16, 998-1000.	30.7	342
54	Dopaminergic Neuronal Loss, Reduced Neurite Complexity and Autophagic Abnormalities in Transgenic Mice Expressing G2019S Mutant LRRK2. PLoS ONE, 2011, 6, e18568.	2.5	338

#	Article	IF	Citations
55	Chapter 15 Nitric oxide in neurodegeneration. Progress in Brain Research, 1998, 118, 215-229.	1.4	336
56	Parthanatos, a messenger of death. Frontiers in Bioscience - Landmark, 2009, Volume, 1116.	3.0	330
57	Truncated N-terminal fragments of huntingtin with expanded glutamine repeats form nuclear and cytoplasmic aggregates in cell culture. Human Molecular Genetics, 1998, 7, 783-790.	2.9	329
58	Poly(ADP-ribose) signals to mitochondrial AIF: A key event in parthanatos. Experimental Neurology, 2009, 218, 193-202.	4.1	327
59	Endoplasmic reticulum stress and mitochondrial cell death pathways mediate A53T mutant alpha-synuclein-induced toxicity. Human Molecular Genetics, 2005, 14, 3801-3811.	2.9	321
60	Requirement for nitric oxide activation of p21 ^{ras} /extracellular regulated kinase in neuronal ischemic preconditioning. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 436-441.	7.1	317
61	Loss of locus coeruleus neurons and reduced startle in parkin null mice. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10744-10749.	7.1	317
62	Poly(ADP-ribose) drives pathologic Î±-synuclein neurodegeneration in Parkinsonâ€™s disease. Science, 2018, 362, .	12.6	317
63	The role of parkin in familial and sporadic Parkinson's disease. Movement Disorders, 2010, 25, S32-9.	3.9	309
64	Parkin and PINK1: much more than mitophagy. Trends in Neurosciences, 2014, 37, 315-324.	8.6	309
65	Failure to degrade poly(ADP-ribose) causes increased sensitivity to cytotoxicity and early embryonic lethality. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17699-17704.	7.1	285
66	Mitochondrial and Nuclear Cross Talk in Cell Death. Annals of the New York Academy of Sciences, 2008, 1147, 233-241.	3.8	284
67	PARPâ€1 gene disruption in mice preferentially protects males from perinatal brain injury. Journal of Neurochemistry, 2004, 90, 1068-1075.	3.9	266
68	A nuclease that mediates cell death induced by DNA damage and poly(ADP-ribose) polymerase-1. Science, 2016, 354, .	12.6	266
69	Sulfhydration mediates neuroprotective actions of parkin. Nature Communications, 2013, 4, 1626.	12.8	265
70	PINK1 and Parkin mitochondrial quality control: a source of regional vulnerability in Parkinsonâ€™s disease. Molecular Neurodegeneration, 2020, 15, 20.	10.8	264
71	Manganese Superoxide Dismutase Protects nNOS Neurons from NMDA and Nitric Oxide-Mediated Neurotoxicity. Journal of Neuroscience, 1998, 18, 2040-2055.	3.6	258
72	Apoptosis-Inducing Factor Substitutes for Caspase Executioners in NMDA-Triggered Excitotoxic Neuronal Death. Journal of Neuroscience, 2004, 24, 10963-10973.	3.6	258

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73	Understanding microRNAs in neurodegeneration. Nature Reviews Neuroscience, 2009, 10, 837-841.	10.2	256
74	Neurobiology of Nitric Oxide. Critical Reviews in Neurobiology, 1996, 10, 291-316.	3.1	255
75	Poly(ADP-ribose) polymerase-dependent energy depletion occurs through inhibition of glycolysis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10209-10214.	7.1	253
76	MicroRNA-223 is neuroprotective by targeting glutamate receptors. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18962-18967.	7.1	245
77	Phosphorylation by the c-Abl protein tyrosine kinase inhibits parkin's ubiquitination and protective function. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16691-16696.	7.1	241
78	Ribosomal Protein s15 Phosphorylation Mediates LRRK2 Neurodegeneration in Parkinsonâ€™s Disease. Cell, 2014, 157, 472-485.	28.9	239
79	Expression of inducible nitric oxide synthase causes delayed neurotoxicity in primary mixed neuronal-glial cortical cultures. Neuropharmacology, 1994, 33, 1425-1430.	4.1	237
80	Â-Synuclein Phosphorylation Enhances Eosinophilic Cytoplasmic Inclusion Formation in SH-SY5Y Cells. Journal of Neuroscience, 2005, 25, 5544-5552.	3.6	237
81	Association of DJ-1 and parkin mediated by pathogenic DJ-1 mutations and oxidative stress. Human Molecular Genetics, 2005, 14, 71-84.	2.9	231
82	Ataxia Telangiectasia Mutated (ATM) Signaling Network Is Modulated by a Novel Poly(ADP-ribose)-dependent Pathway in the Early Response to DNA-damaging Agents. Journal of Biological Chemistry, 2007, 282, 16441-16453.	3.4	225
83	Neuroprotection by pharmacologic blockade of the GAPDH death cascade. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3887-3889.	7.1	222
84	Accumulation of the Authentic Parkin Substrate Aminoacyl-tRNA Synthetase Cofactor, p38/JTV-1, Leads to Catecholaminergic Cell Death. Journal of Neuroscience, 2005, 25, 7968-7978.	3.6	221
85	Mediation of cell death by poly(ADP-ribose) polymerase-1. Pharmacological Research, 2005, 52, 5-14.	7.1	218
86	In vitro and in vivo effects of genistein on murine alveolar macrophage TNF alpha production. Cellular and Molecular Neurobiology, 1998, 18, 667-682.	3.3	217
87	Free Radicals as Mediators of Neuronal Injury. Cellular and Molecular Neurobiology, 1998, 18, 667-682.	3.3	208
88	Parkin loss leads to PARIS-dependent declines in mitochondrial mass and respiration. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11696-11701.	7.1	207
89	NMDA But Not Non-NMDA Excitotoxicity is Mediated by Poly(ADP-Ribose) Polymerase. Journal of Neuroscience, 2000, 20, 8005-8011.	3.6	206
90	Iduna is a poly(ADP-ribose) (PAR)-dependent E3 ubiquitin ligase that regulates DNA damage. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14103-14108.	7.1	205

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91	Stress-induced alterations in parkin solubility promote parkin aggregation and compromise parkin's protective function. Human Molecular Genetics, 2005, 14, 3885-3897.	2.9	201
92	Familial-associated mutations differentially disrupt the solubility, localization, binding and ubiquitination properties of parkin. Human Molecular Genetics, 2005, 14, 2571-2586.	2.9	200
93	Meta-Analysis of the Alzheimerâ€™s Disease Human Brain Transcriptome and Functional Dissection in Mouse Models. Cell Reports, 2020, 32, 107908.	6.4	199
94	A missense mutation (L166P) in DJâ€1, linked to familial Parkinson's disease, confers reduced protein stability and impairs homoâ€oligomerization. Journal of Neurochemistry, 2003, 87, 1558-1567.	3.9	198
95	CHIP regulates leucine-rich repeat kinase-2 ubiquitination, degradation, and toxicity. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2897-2902.	7.1	195
96	Parkin Protects against LRRK2 G2019S Mutant-Induced Dopaminergic Neurodegeneration in Drosophila. Journal of Neuroscience, 2009, 29, 11257-11262.	3.6	193
97	Nitric oxide mediates<i>N</i>-methyl-<scp>d</scp>-aspartate receptor-induced activation of p21^{ras}. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 5773-5778.	7.1	192
98	Iduna protects the brain from glutamate excitotoxicity and stroke by interfering with poly(ADP-ribose) polymer-induced cell death. Nature Medicine, 2011, 17, 692-699.	30.7	190
99	The c-Abl inhibitor, Nilotinib, protects dopaminergic neurons in a preclinical animal model of Parkinson's disease. Scientific Reports, 2014, 4, 4874.	3.3	188
100	Neuronal (type I) nitric oxide synthase regulates nuclear factorÎºB activity and immunologic (type II) nitric oxide synthase expression. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 2676-2680.	7.1	187
101	Poly(ADP-ribose) polymerase-1 and apoptosis inducing factor in neurotoxicity. Neurobiology of Disease, 2003, 14, 303-317.	4.4	185
102	The role of the ubiquitin-proteasomal pathway in Parkinson's disease and other neurodegenerative disorders. Trends in Neurosciences, 2001, 24, S7-S14.	8.6	184
103	Parthanatos mediates AIMP2-activated age-dependent dopaminergic neuronal loss. Nature Neuroscience, 2013, 16, 1392-1400.	14.8	182
104	The Chaperone Activity of Heat Shock Protein 90 Is Critical for Maintaining the Stability of Leucine-Rich Repeat Kinase 2. Journal of Neuroscience, 2008, 28, 3384-3391.	3.6	178
105	Nuclear Targeting of Mutant Huntingtin Increases Toxicity. Molecular and Cellular Neurosciences, 1999, 14, 121-128.	2.2	177
106	GTPase Activity Plays a Key Role in the Pathobiology of LRRK2. PLoS Genetics, 2010, 6, e1000902.	3.5	177
107	Microglia and astrocyte dysfunction in parkinson's disease. Neurobiology of Disease, 2020, 144, 105028.	4.4	177
108	Rare genetic mutations shed light on the pathogenesis of Parkinson disease. Journal of Clinical Investigation, 2003, 111, 145-151.	8.2	175

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109	Characterization of polyamines having agonist, antagonist, and inverse agonist effects at the polyamine recognition site of the NMDA receptor. Neuron, 1990, 5, 199-208.	8.1	174
110	NITRIC OXIDE ACTIONS IN NEUROCHEMISTRY. Neurochemistry International, 1996, 29, 97-110.	3.8	174
111	<scp>M</scp>sp1/<scp>ATAD</scp>1 maintains mitochondrial function by facilitating the degradation of mislocalized tailâ€anchored proteins. EMBO Journal, 2014, 33, 1548-1564.	7.8	172
112	Deadly Conversations: Nuclear-Mitochondrial Cross-Talk. Journal of Bioenergetics and Biomembranes, 2004, 36, 287-294.	2.3	169
113	Fyn kinase regulates misfolded Î±-synuclein uptake and NLRP3 inflammasome activation in microglia. Journal of Experimental Medicine, 2019, 216, 1411-1430.	8.5	169
114	Dynamic regulation of neuronal NO synthase transcription by calcium influx through a CREB family transcription factor-dependent mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 8617-8622.	7.1	168
115	The role of the ubiquitin-proteasomal pathway in Parkinson's disease and other neurodegenerative disorders. Trends in Neurosciences, 2001, 24, 7-14.	8.6	161
116	Opportunities for the repurposing of PARP inhibitors for the therapy of nonâ€oncological diseases. British Journal of Pharmacology, 2018, 175, 192-222.	5.4	160
117	Neuroprotective and neurorestorative strategies for Parkinson's disease. Nature Neuroscience, 2002, 5, 1058-1061.	14.8	152
118	Role of nitric oxide in Parkinson's disease. , 2006, 109, 33-41.		150
119	ADPâ€ribosyltransferases, an update on function and nomenclature. FEBS Journal, 2022, 289, 7399-7410.	4.7	150
120	(Pathoâ€)physiological relevance of <scp>PINK</scp> 1â€dependent ubiquitin phosphorylation. EMBO Reports, 2015, 16, 1114-1130.	4.5	147
121	Expansion of polyglutamine repeat in huntingtin leads to abnormal protein interactions involving calmodulin.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 5037-5042.	7.1	145
122	Autophagy-mediated clearance of aggresomes is not a universal phenomenon. Human Molecular Genetics, 2008, 17, 2570-2582.	2.9	143
123	Î±-Synuclein accumulation and GBA deficiency due to L444P GBA mutation contributes to MPTP-induced parkinsonism. Molecular Neurodegeneration, 2018, 13, 1.	10.8	143
124	MicroRNAs in Parkinson's disease. Journal of Chemical Neuroanatomy, 2011, 42, 127-130.	2.1	142
125	Toward the human cellular microRNAome. Genome Research, 2017, 27, 1769-1781.	5.5	142
126	NITRIC OXIDE SYNTHASE: Role as a Transmitter/Mediator in the Brain and Endocrine System. Annual Review of Medicine, 1996, 47, 219-227.	12.2	141

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127	Oval cells compensate for damage and replicative senescence of mature hepatocytes in mice with fatty liver disease. Hepatology, 2004, 39, 403-411.	7.3	141
128	S-nitrosylation of XIAP compromises neuronal survival in Parkinson's disease. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4900-4905.	7.1	141
129	Reprogramming cellular events by poly(ADP-ribose)-binding proteins. Molecular Aspects of Medicine, 2013, 34, 1066-1087.	6.4	141
130	PINK1 Primes Parkin-Mediated Ubiquitination of PARIS in Dopaminergic Neuronal Survival. Cell Reports, 2017, 18, 918-932.	6.4	141
131	Novel Monoclonal Antibodies Demonstrate Biochemical Variation of Brain Parkin with Age. Journal of Biological Chemistry, 2003, 278, 48120-48128.	3.4	140
132	Bcl-x Is Required for Proper Development of the Mouse Substantia Nigra. Journal of Neuroscience, 2005, 25, 6721-6728.	3.6	140
133	Localization of Parkinsonâ€™s disease-associated LRRK2 in normal and pathological human brain. Brain Research, 2007, 1155, 208-219.	2.2	139
134	GBA1 deficiency negatively affects physiological Î±-synuclein tetramers and related multimers. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 798-803.	7.1	139
135	Urinary bladder-urethral sphincter dysfunction in mice with targeted disruption of neuronal nitric oxide synthase models idiopathic voiding disorders in humans. Nature Medicine, 1997, 3, 571-574.	30.7	138
136	Dynamic and redundant regulation of LRRK2 and LRRK1 expression. BMC Neuroscience, 2007, 8, 102.	1.9	135
137	Cyclic nucleotide dependent phosphorylation of neuronal nitric oxide synthase inhibits catalytic activity. Neuropharmacology, 1994, 33, 1245-1251.	4.1	134
138	Activation of tyrosine kinase c-Abl contributes to Î±-synucleinâ€"induced neurodegeneration. Journal of Clinical Investigation, 2016, 126, 2970-2988.	8.2	133
139	Chemoproteomics-Based Design of Potent LRRK2-Selective Lead Compounds That Attenuate Parkinsonâ€™s Disease-Related Toxicity in Human Neurons. ACS Chemical Biology, 2011, 6, 1021-1028.	3.4	131
140	LRRK2 pathobiology in Parkinson's disease. Journal of Neurochemistry, 2014, 131, 554-565.	3.9	131
141	Parkin-mediated lysine 63-linked polyubiquitination: A link to protein inclusions formation in Parkinson's and other conformational diseases?. Neurobiology of Aging, 2006, 27, 524-529.	3.1	130
142	Role of neuronal and endothelial nitric oxide synthase in nitric oxide generation in the brain following cerebral ischemia. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1999, 1455, 23-34.	3.8	129
143	FKBP12, the 12-kDa FK506-binding protein, is a physiologic regulator of the cell cycle. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 2425-2430.	7.1	128
144	NITRIC OXIDE: ROLE IN NEUROTOXICITY. Clinical and Experimental Pharmacology and Physiology, 1995, 22, 305-308.	1.9	126

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145	Parkin-associated Parkinsonâ€™s disease. Cell and Tissue Research, 2004, 318, 175-184.	2.9	126
146	Development and Characterization of a New Parkinson's Disease Model Resulting from Impaired Autophagy. Journal of Neuroscience, 2012, 32, 16503-16509.	3.6	124
147	Poly(ADP-Ribose) Polymerase Impairs Early and Long-Term Experimental Stroke Recovery. Stroke, 2002, 33, 1101-1106.	2.0	123
148	Nitric Oxide in Neuronal Degeneration. Experimental Biology and Medicine, 1996, 211, 33-40.	2.4	120
149	Inhibitors of LRRK2 kinase attenuate neurodegeneration and Parkinson-like phenotypes in Caenorhabditis elegans and Drosophila Parkinson's disease models. Human Molecular Genetics, 2011, 20, 3933-3942.	2.9	120
150	Mitochondrial Mechanisms of Neuronal Cell Death: Potential Therapeutics. Annual Review of Pharmacology and Toxicology, 2017, 57, 437-454.	9.4	120
151	Guidelines on experimental methods to assess mitochondrial dysfunction in cellular models of neurodegenerative diseases. Cell Death and Differentiation, 2018, 25, 542-572.	11.2	120
152	Genetic deficiency of the mitochondrial protein PGAM5 causes a Parkinsonâ€™s-like movement disorder. Nature Communications, 2014, 5, 4930.	12.8	118
153	Heterozygous PINK1 p.G411S increases risk of Parkinsonâ€™s disease via a dominant-negative mechanism. Brain, 2017, 140, 98-117.	7.6	116
154	Unexpected Lack of Hypersensitivity in LRRK2 Knock-Out Mice to MPTP (1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine). Journal of Neuroscience, 2009, 29, 15846-15850.	3.6	114
155	Functional interaction of Parkinson's disease-associated LRRK2 with members of the dynamin GTPase superfamily. Human Molecular Genetics, 2014, 23, 2055-2077.	2.9	113
156	Apoptosis Inducing Factor and PARPâ€Mediated Injury in the MPTP Mouse Model of Parkinson's Disease. Annals of the New York Academy of Sciences, 2003, 991, 132-139.	3.8	112
157	To die or grow: Parkinson's disease and cancer. Trends in Neurosciences, 2005, 28, 348-352.	8.6	110
158	Effects of Nitric Oxide on Neuroendocrine Function and Behavior. Frontiers in Neuroendocrinology, 1997, 18, 463-491.	5.2	107
159	37-kDa Laminin Receptor Precursor Modulates Cytotoxic Necrotizing Factor 1â€"mediated RhoA Activation and Bacterial Uptake. Journal of Biological Chemistry, 2003, 278, 16857-16862.	3.4	106
160	Molecular Mechanisms of Nitric Oxide Actions in the Brain^a. Annals of the New York Academy of Sciences, 1994, 738, 76-85.	3.8	103
161	Expression and localization of Parkinson's disease-associated leucine-rich repeat kinase 2 in the mouse brain. Journal of Neurochemistry, 2007, 100, 368-381.	3.9	101
162	Parkin mediates the degradationâ€independent ubiquitination of Hsp70. Journal of Neurochemistry, 2008, 105, 1806-1819.	3.9	101

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163	REVIEW â– : Nitric Oxide: Actions and Pathological Roles. Neuroscientist, 1995, 1, 7-18.	3.5	100
164	mdx muscle pathology is independent of nNOS perturbation. Human Molecular Genetics, 1998, 7, 823-829.	2.9	99
165	Animal Models of Parkinson's Disease: Vertebrate Genetics. Cold Spring Harbor Perspectives in Medicine, 2012, 2, a009324-a009324.	6.2	99
166	Brain serotonin dysfunction accounts for aggression in male mice lacking neuronal nitric oxide synthase. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 1277-1281.	7.1	99
167	Differential Susceptibility to Neurotoxicity Mediated by Neurotrophins and Neuronal Nitric Oxide Synthase. Journal of Neuroscience, 1997, 17, 4633-4641.	3.6	98
168	What causes cell death in Parkinson's disease?. Annals of Neurology, 2008, 64, S3-S15.	5.3	95
169	TRPV1 on astrocytes rescues nigral dopamine neurons in Parkinsonâ€™s disease via CNTF. Brain, 2015, 138, 3610-3622.	7.6	95
170	Inhibition of Neuronal Nitric Oxide Synthase Increases Aggressive Behavior in Mice. Molecular Medicine, 1997, 3, 610-616.	4.4	94
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