Mark R Cookson

List of Publications by Year
in descending order

287 papers	43,419 citations	2802 94 h-index	2448 197 g-index
323 all docs	323 docs citations	323 times ranked	44853 citing authors

#	Article	IF	Citations
1	Î±-Synuclein Locus Triplication Causes Parkinson's Disease. Science, 2003, 302, 841-841.	12.6	3,836
2	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
3	PINK1 Is Selectively Stabilized on Impaired Mitochondria to Activate Parkin. PLoS Biology, 2010, 8, e1000298.	5.6	2,299
4	Genome-wide association study reveals genetic risk underlying Parkinson's disease. Nature Genetics, 2009, 41, 1308-1312.	21.4	1,745
5	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 582 Td	9.1	1,430
6	Identification of novel risk loci, causal insights, and heritable risk for Parkinson's disease: a meta-analysis of genome-wide association studies. Lancet Neurology, The, 2019, 18, 1091-1102.	10.2	1,414
7	The Parkinson's disease protein DJ-1 is neuroprotective due to cysteine-sulfinic acid-driven mitochondrial localization. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9103-9108.	7.1	1,010
8	Common genetic variants influence human subcortical brain structures. Nature, 2015, 520, 224-229.	27.8	772
9	Abundant Quantitative Trait Loci Exist for DNA Methylation and Gene Expression in Human Brain. PLoS Genetics, 2010, 6, e1000952.	3.5	722
10	Kinase activity is required for the toxic effects of mutant LRRK2/dardarin. Neurobiology of Disease, 2006, 23, 329-341.	4.4	683
11	Genetic variability in the regulation of gene expression in ten regions of the human brain. Nature Neuroscience, 2014, 17, 1418-1428.	14.8	620
12	THE BIOCHEMISTRY OF PARKINSON'S DISEASE. Annual Review of Biochemistry, 2005, 74, 29-52.	11.1	595
13	AnIn VitroModel of Parkinson's Disease: Linking Mitochondrial Impairment to Altered Î±-Synuclein Metabolism and Oxidative Damage. Journal of Neuroscience, 2002, 22, 7006-7015.	3.6	547
14	Parkin Protects against the Toxicity Associated with Mutant Î±-Synuclein. Neuron, 2002, 36, 1007-1019.	8.1	542
15	Î±â€Synuclein implicated in Parkinson's disease is present in extracellular biological fluids, including human plasma. FASEB Journal, 2003, 17, 1-16.	0.5	520
16	Identification of common variants influencing risk of the tauopathy progressive supranuclear palsy. Nature Genetics, 2011, 43, 699-705.	21.4	502
17	The role of leucine-rich repeat kinase 2 (LRRK2) in Parkinson's disease. Nature Reviews Neuroscience, 2010, 11, 791-797.	10.2	480
18	Evidence for natural antisense transcript-mediated inhibition of microRNA function. Genome Biology, 2010, 11, R56.	8.8	444

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19	A soluble Î±-synuclein construct forms a dynamic tetramer. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17797-17802.	7.1	408
20	DJ-1 acts in parallel to the PINK1/parkin pathway to control mitochondrial function and autophagy. Human Molecular Genetics, 2011, 20, 40-50.	2.9	407
21	The expression of DJ-1 (PARK7) in normal human CNS and idiopathic Parkinson's disease. Brain, 2004, 127, 420-430.	7.6	404
22	Mutations in the Matrin 3 gene cause familial amyotrophic lateral sclerosis. Nature Neuroscience, 2014, 17, 664-666.	14.8	398
23	Distinct DNA methylation changes highly correlated with chronological age in the human brain. Human Molecular Genetics, 2011, 20, 1164-1172.	2.9	360
24	Unbiased screen for interactors of leucine-rich repeat kinase 2 supports a common pathway for sporadic and familial Parkinson disease. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2626-2631.	7.1	342
25	Mitochondrial function and morphology are impaired in parkinâ€mutant fibroblasts. Annals of Neurology, 2008, 64, 555-565.	5.3	339
26	Mutations in PTEN-induced putative kinase 1 associated with recessive parkinsonism have differential effects on protein stability. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5703-5708.	7.1	329
27	Major Shifts in Glial Regional Identity Are a Transcriptional Hallmark of Human Brain Aging. Cell Reports, 2017, 18, 557-570.	6.4	326
28	Converging pathways in neurodegeneration, from genetics to mechanisms. Nature Neuroscience, 2018, 21, 1300-1309.	14.8	325
29	Excessive burden of lysosomal storage disorder gene variants in Parkinsonâ€™s disease. Brain, 2017, 140, 3191-3203.	7.6	323
30	Î±-Synuclein and neuronal cell death. Molecular Neurodegeneration, 2009, 4, 9.	10.8	314
31	Intersecting pathways to neurodegeneration in Parkinson's disease: Effects of the pesticide rotenone on DJ-1, Î±-synuclein, and the ubiquitinâ€“proteasome system. Neurobiology of Disease, 2006, 22, 404-420.	4.4	313
32	Genome-wide association study of obsessive-compulsive disorder. Molecular Psychiatry, 2013, 18, 788-798.	7.9	312
33	Genetics of Parkinson's disease and parkinsonism. Annals of Neurology, 2006, 60, 389-398.	5.3	281
34	Pink1 Forms a Multiprotein Complex with Miro and Milton, Linking Pink1 Function to Mitochondrial Trafficking. Biochemistry, 2009, 48, 2045-2052.	2.5	277
35	Lysosomal impairment in Parkinson's disease. Movement Disorders, 2013, 28, 725-732.	3.9	270
36	Deletion at ITPR1 Underlies Ataxia in Mice and Spinocerebellar Ataxia 15 in Humans. PLoS Genetics, 2007, 3, e108.	3.5	269

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37	The Parkinson Disease-associated Leucine-rich Repeat Kinase 2 (LRRK2) Is a Dimer That Undergoes Intramolecular Autophosphorylation. Journal of Biological Chemistry, 2008, 283, 16906-16914.	3.4	268
38	Novel genetic loci associated with hippocampal volume. Nature Communications, 2017, 8, 13624.	12.8	250
39	Mitochondrial dysfunction in a cell culture model of familial amyotrophic lateral sclerosis. Brain, 2002, 125, 1522-1533.	7.6	249
40	A Two-Stage Meta-Analysis Identifies Several New Loci for Parkinson's Disease. PLoS Genetics, 2011, 7, e1002142.	3.5	247
41	The R1441C mutation of LRRK2 disrupts GTP hydrolysis. Biochemical and Biophysical Research Communications, 2007, 357, 668-671.	2.1	244
42	Leucine-Rich Repeat Kinase 2 Mutations and Parkinson's Disease: Three Questions. ASN Neuro, 2009, 1, AN20090007.	2.7	244
43	Formation of a Stabilized Cysteine Sulfinic Acid Is Critical for the Mitochondrial Function of the Parkinsonism Protein DJ-1. Journal of Biological Chemistry, 2009, 284, 6476-6485.	3.4	242
44	Cytoplasmic Pink1 activity protects neurons from dopaminergic neurotoxin MPTP. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1716-1721.	7.1	228
45	LRRK2 Modulates Vulnerability to Mitochondrial Dysfunction in Caenorhabditis elegans. Journal of Neuroscience, 2009, 29, 9210-9218.	3.6	220
46	Structure of the ROC domain from the Parkinson's disease-associated leucine-rich repeat kinase 2 reveals a dimeric GTPase. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1499-1504.	7.1	218
47	LRRK2 phosphorylates membrane-bound Rabs and is activated by GTP-bound Rab7L1 to promote recruitment to the trans-Golgi network. Human Molecular Genetics, 2018, 27, 385-395.	2.9	218
48	Novel genetic loci underlying human intracranial volume identified through genome-wide association. Nature Neuroscience, 2016, 19, 1569-1582.	14.8	213
49	L166P Mutant DJ-1, Causative for Recessive Parkinson's Disease, Is Degraded through the Ubiquitin-Proteasome System. Journal of Biological Chemistry, 2003, 278, 36588-36595.	3.4	211
50	DYT16, a novel young-onset dystonia-parkinsonism disorder: identification of a segregating mutation in the stress-response protein PRKRA. Lancet Neurology, The, 2008, 7, 207-215.	10.2	202
51	Caspase-1 causes truncation and aggregation of the Parkinsonâ€™s disease-associated protein Î±-synuclein. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9587-9592.	7.1	202
52	RNA binding activity of the recessive parkinsonism protein DJ-1 supports involvement in multiple cellular pathways. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10244-10249.	7.1	196
53	Oxidative Stress and Motor Neurone Disease. Brain Pathology, 1999, 9, 165-186.	4.1	191
54	MAPT expression and splicing is differentially regulated by brain region: relation to genotype and implication for tauopathies. Human Molecular Genetics, 2012, 21, 4094-4103.	2.9	191

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55	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
56	A strategy for designing inhibitors of Î± â€synuclein aggregation and toxicity as a novel treatment for Parkinson's disease and related disorders. FASEB Journal, 2004, 18, 1315-1317.	0.5	165
57	Cell systems and the toxic mechanism(s) of Î±-synuclein. Experimental Neurology, 2008, 209, 5-11.	4.1	164
58	Mitochondrial Alterations in PINK1 Deficient Cells Are Influenced by Calcineurin-Dependent Dephosphorylation of Dynamin-Related Protein 1. PLoS ONE, 2009, 4, e5701.	2.5	164
59	Parkinson's disease: insights from pathways. Human Molecular Genetics, 2010, 19, R21-R27.	2.9	151
60	Genetic modifiers of risk and age at onset in GBA associated Parkinsonâ€™s disease and Lewy body dementia. Brain, 2020, 143, 234-248.	7.6	149
61	LRRK2 links genetic and sporadic Parkinson's disease. Biochemical Society Transactions, 2019, 47, 651-661.	3.4	148
62	LRRK2 at the interface of autophagosomes, endosomes and lysosomes. Molecular Neurodegeneration, 2016, 11, 73.	10.8	146
63	Metabolic Activity Determines Efficacy of Macroautophagic Clearance of Pathological Oligomeric Î±-Synuclein. American Journal of Pathology, 2009, 175, 736-747.	3.8	144
64	Coâ€ordinate transcriptional regulation of dopamine synthesis genes by Î±â€synuclein in human neuroblastoma cell lines. Journal of Neurochemistry, 2003, 85, 957-968.	3.9	143
65	Reelin and Stk25 Have Opposing Roles in Neuronal Polarization and Dendritic Golgi Deployment. Cell, 2010, 143, 826-836.	28.9	141
66	Parkinsonism Due to Mutations in PINK1, Parkin, and DJ-1 and Oxidative Stress and Mitochondrial Pathways. Cold Spring Harbor Perspectives in Medicine, 2012, 2, a009415-a009415.	6.2	140
67	LRRK2 mediates tubulation and vesicle sorting from lysosomes. Science Advances, 2020, 6, .	10.3	140
68	RING finger 1 mutations in Parkin produce altered localization of the protein. Human Molecular Genetics, 2003, 12, 2957-2965.	2.9	138
69	Evolutionary and functional relationships within the DJ1 superfamily. BMC Evolutionary Biology, 2004, 4, 6.	3.2	138
70	The Parkinsonâ€™s disease kinase LRRK2 autophosphorylates its GTPase domain at multiple sites. Biochemical and Biophysical Research Communications, 2009, 389, 449-454.	2.1	138
71	DJ-1 regulation of mitochondrial function and autophagy through oxidative stress. Autophagy, 2011, 7, 531-532.	9.1	134
72	Genome-wide Screen Identifies rs646776 near Sortilin as a Regulator of Progranulin Levels in Human Plasma. American Journal of Human Genetics, 2010, 87, 890-897.	6.2	130

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73	mRNA expression, splicing and editing in the embryonic and adult mouse cerebral cortex. Nature Neuroscience, 2013, 16, 499-506.	14.8	130
74	Finding useful biomarkers for Parkinsonâ€™s disease. Science Translational Medicine, 2018, 10, .	12.4	125
75	Identification and functional characterization of a novel R621C mutation in the synphilin-1 gene in Parkinson's disease. Human Molecular Genetics, 2003, 12, 1223-1231.	2.9	124
76	Mutant LRRK2 Toxicity in Neurons Depends on LRRK2 Levels and Synuclein But Not Kinase Activity or Inclusion Bodies. Journal of Neuroscience, 2014, 34, 418-433.	3.6	124
77	A pathway-based analysis provides additional support for an immune-related genetic susceptibility to Parkinson's disease. Human Molecular Genetics, 2013, 22, 1039-1049.	2.9	122
78	Emerging pathways in genetic Parkinson's disease: Potential role of ceramide metabolism in Lewy body disease. FEBS Journal, 2008, 275, 5767-5773.	4.7	121
79	Membrane-associated farnesylated UCH-L1 promotes Î±-synuclein neurotoxicity and is a therapeutic target for Parkinson's disease. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4635-4640.	7.1	121
80	Integration of GWAS SNPs and tissue specific expression profiling reveal discrete eQTLs for human traits in blood and brain. Neurobiology of Disease, 2012, 47, 20-28.	4.4	121
81	A Direct Interaction between Leucine-rich Repeat Kinase 2 and Specific Î²-Tubulin Isoforms Regulates Tubulin Acetylation. Journal of Biological Chemistry, 2014, 289, 895-908.	3.4	119
82	LRRK2 promotes the activation of NLRC4 inflammasome during Salmonella Typhimurium infection. Journal of Experimental Medicine, 2017, 214, 3051-3066.	8.5	119
83	Cross-Disorder Genome-Wide Analyses Suggest a Complex Genetic Relationship Between Touretteâ€™s Syndrome and OCD. American Journal of Psychiatry, 2015, 172, 82-93.	7.2	117
84	Insight into the mode of action of the LRRK2 Y1699C pathogenic mutant. Journal of Neurochemistry, 2011, 116, 304-315.	3.9	114
85	The expression of the glial glutamate transporter protein EAAT2 in motor neuron disease: an immunohistochemical study. European Journal of Neuroscience, 1998, 10, 2481-2489.	2.6	111
86	LRRK2 Pathways Leading to Neurodegeneration. Current Neurology and Neuroscience Reports, 2015, 15, 42.	4.2	110
87	Mitochondria and Dopamine. Neuron, 2004, 43, 301-304.	8.1	104
88	The G2385R variant of leucine-rich repeat kinase 2 associated with Parkinson's disease is a partial loss-of-function mutation. Biochemical Journal, 2012, 446, 99-111.	3.7	104
89	Glial phagocytic clearance in Parkinsonâ€™s disease. Molecular Neurodegeneration, 2019, 14, 16.	10.8	104
90	Age-associated miRNA Alterations in Skeletal Muscle from Rhesus Monkeys reversed by caloric restriction. Aging, 2013, 5, 692-703.	3.1	104

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91	Analysis of the Cytosolic Proteome in a Cell Culture Model of Familial Amyotrophic Lateral Sclerosis Reveals Alterations to the Proteasome, Antioxidant Defenses, and Nitric Oxide Synthetic Pathways. Journal of Biological Chemistry, 2003, 278, 6371-6383.	3.4	103
92	Tyrosinase exacerbates dopamine toxicity but is not genetically associated with Parkinson's disease. Journal of Neurochemistry, 2005, 93, 246-256.	3.9	103
93	Parkinson disease-associated mutation R1441H in LRRK2 prolongs the â€œactive stateâ€•of its GTPase domain. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4055-4060.	7.1	100
94	Mitochondrial Quality Control and Dynamics in Parkinson's Disease. Antioxidants and Redox Signaling, 2012, 16, 869-882.	5.4	99
95	Genes and parkinsonism. Lancet Neurology, The, 2003, 2, 221-228.	10.2	98
96	Development and Characterisation of a Glutamate-Sensitive Motor Neurone Cell Line. Journal of Neurochemistry, 2008, 74, 1895-1902.	3.9	97
97	The role of monogenic genes in idiopathic Parkinsonâ€™s disease. Neurobiology of Disease, 2019, 124, 230-239.	4.4	97
98	Pathways to Parkinsonism. Neuron, 2003, 37, 7-10.	8.1	95
99	Identification of Candidate Parkinson Disease Genes by Integrating Genome-Wide Association Study, Expression, and Epigenetic Data Sets. JAMA Neurology, 2021, 78, 464.	9.0	95
100	MKK6 binds and regulates expression of Parkinsonâ€™s diseaseâ€•related protein LRRK2. Journal of Neurochemistry, 2010, 112, 1593-1604.	3.9	94
101	Biochemical Characterization of Highly Purified Leucine-Rich Repeat Kinases 1 and 2 Demonstrates Formation of Homodimers. PLoS ONE, 2012, 7, e43472.	2.5	92
102	Peroxynitrite and Hydrogen Peroxide Induced Cell Death in the NSC34 Neuroblastoma Ã— Spinal Cord Cell Line: Role of Poly(ADPâ€Ribose) Polymerase. Journal of Neurochemistry, 1998, 70, 501-508.	3.9	91
103	Phosphorylation of LRRK2 by casein kinase 1Î± regulates trans-Golgi clustering via differential interaction with ARHGEF7. Nature Communications, 2014, 5, 5827.	12.8	90
104	The Endosomalâ€“Lysosomal Pathway Is Dysregulated by APOE4 Expression in Vivo. Frontiers in Neuroscience, 2017, 11, 702.	2.8	90
105	LRRK2 Kinase Activity Is Dependent on LRRK2 GTP Binding Capacity but Independent of LRRK2 GTP Binding. PLoS ONE, 2011, 6, e23207.	2.5	89
106	Identification of protein phosphatase 1 as a regulator of the LRRK2 phosphorylation cycle. Biochemical Journal, 2013, 456, 119-128.	3.7	88
107	Genes associated with Parkinson's disease: regulation of autophagy and beyond. Journal of Neurochemistry, 2016, 139, 91-107.	3.9	88
108	The Parkinson's Disease Associated LRRK2 Exhibits Weaker In Vitro Phosphorylation of 4E-BP Compared to Autophosphorylation. PLoS ONE, 2010, 5, e8730.	2.5	86

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109	Effects of DJ-1 mutations and polymorphisms on protein stability and subcellular localization. Molecular Brain Research, 2005, 134, 76-83.	2.3	84
110	Hexokinase activity is required for recruitment of parkin to depolarized mitochondria. Human Molecular Genetics, 2014, 23, 145-156.	2.9	80
111	Amyotrophic Lateral Sclerosis 2-Deficiency Leads to Neuronal Degeneration in Amyotrophic Lateral Sclerosis through Altered AMPA Receptor Trafficking. Journal of Neuroscience, 2006, 26, 11798-11806.	3.6	79
112	FUS mutations in sporadic amyotrophic lateral sclerosis. Neurobiology of Aging, 2011, 32, 550.e1-550.e4.	3.1	79
113	Mutations in LRRK2/dardarin associated with Parkinson disease are more toxic than equivalent mutations in the homologous kinase LRRK1. Journal of Neurochemistry, 2007, 102, 93-102.	3.9	78
114	Parkinson disease-associated mutations in LRRK2 cause centrosomal defects via Rab8a phosphorylation. Molecular Neurodegeneration, 2018, 13, 3.	10.8	77
115	Post-transcriptional regulation of mRNA associated with DJ-1 in sporadic Parkinson disease. Neuroscience Letters, 2009, 452, 8-11.	2.1	73
116	DJâ€1, PINK1, and their effects on mitochondrial pathways. Movement Disorders, 2010, 25, S44-8.	3.9	73
117	Pathways to Parkinsonism Redux: convergent pathobiological mechanisms in genetics of Parkinson's disease. Human Molecular Genetics, 2015, 24, R32-R44.	2.9	73
118	Selective loss of neurofilament expression in Cu/Zn superoxide dismutase (SOD1) linked amyotrophic lateral sclerosis. Journal of Neurochemistry, 2004, 82, 1118-1128.	3.9	70
119	Analysis of IFT74as a candidate gene for chromosome 9p-linked ALS-FTD. BMC Neurology, 2006, 6, 44.	1.8	70
120	Genetic neuropathology of Parkinson's disease. International Journal of Clinical and Experimental Pathology, 2008, 1, 217-31.	0.5	70
121	mTOR independent regulation of macroautophagy by Leucine Rich Repeat Kinase 2 via Beclin-1. Scientific Reports, 2016, 6, 35106.	3.3	69
122	Large-scale pathway specific polygenic risk and transcriptomic community network analysis identifies novel functional pathways in Parkinson disease. Acta Neuropathologica, 2020, 140, 341-358.	7.7	68
123	The Metalloprotease Inhibitor TIMP-3 Regulates Amyloid Precursor Protein and Apolipoprotein E Receptor Proteolysis. Journal of Neuroscience, 2007, 27, 10895-10905.	3.6	67
124	Aggregation of Î±-synuclein in brain samples from subjects with glucocerebrosidase mutations. Molecular Genetics and Metabolism, 2011, 104, 185-188.	1.1	67
125	Frequency of Loss of Function Variants in LRRK2 in Parkinson Disease. JAMA Neurology, 2018, 75, 1416.	9.0	66
126	The endocytic membrane trafficking pathway plays a major role in the risk of Parkinson's disease. Movement Disorders, 2019, 34, 460-468.	3.9	66

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127	Age-associated changes in gene expression in human brain and isolated neurons. Neurobiology of Aging, 2013, 34, 1199-1209.	3.1	65
128	How genetics research in Parkinson's disease is enhancing understanding of the common idiopathic forms of the disease. Current Opinion in Neurology, 2005, 18, 706-711.	3.6	62
129	Genetic determinants of survival in progressive supranuclear palsy: a genome-wide association study. Lancet Neurology, The, 2021, 20, 107-116.	10.2	62
130	Mechanisms in dominant parkinsonism: The toxic triangle of LRRK2, Î±â€synuclein, and tau. BioEssays, 2010, 32, 227-235.	2.5	61
131	Detection of endogenous S1292 LRRK2 autophosphorylation in mouse tissue as a readout for kinase activity. Npj Parkinson's Disease, 2018, 4, 13.	5.3	59
132	Genetic analysis of amyotrophic lateral sclerosis identifies contributing pathways and cell types. Science Advances, 2021, 7, .	10.3	59
133	Is inhibition of kinase activity the only therapeutic strategy for LRRK2-associated Parkinson's disease?. BMC Medicine, 2012, 10, 20.	5.5	58
134	Transfected synphilin-1 forms cytoplasmic inclusions in HEK293 cells. Molecular Brain Research, 2001, 97, 94-102.	2.3	57
135	Genetic comorbidities in Parkinson's disease. Human Molecular Genetics, 2014, 23, 831-841.	2.9	57
136	Leucineâ€rich repeat kinase 2 interacts with p21â€activated kinase 6 to control neurite complexity in mammalian brain. Journal of Neurochemistry, 2015, 135, 1242-1256.	3.9	57
137	AKT signalling selectively regulates PINK1 mitophagy in SHSY5Y cells and human iPSC-derived neurons. Scientific Reports, 2018, 8, 8855.	3.3	57
138	Penetrance of Parkinson's Disease in LRRK2 p.G2019S Carriers Is Modified by a Polygenic Risk Score. Movement Disorders, 2020, 35, 774-780.	3.9	57
139	Transcriptome analysis of LRRK2 knock-out microglia cells reveals alterations of inflammatory- and oxidative stress-related pathways upon treatment with Î±-synuclein fibrils. Neurobiology of Disease, 2019, 129, 67-78.	4.4	53
140	Tackling neurodegenerative diseases with genomic engineering: A new stem cell initiative from the NIH. Neuron, 2021, 109, 1080-1083.	8.1	53
141	Glial cell inclusions and the pathogenesis of neurodegenerative diseases. Neuron Glia Biology, 2004, 1, 13-21.	1.6	52
142	Proteomic analysis reveals co-ordinated alterations in protein synthesis and degradation pathways in LRRK2 knockout mice. Human Molecular Genetics, 2018, 27, 3257-3271.	2.9	52
143	The Roles of Kinases in Familial Parkinson's Disease. Journal of Neuroscience, 2007, 27, 11865-11868.	3.6	51
144	Heterogeneity of Leucine-Rich Repeat Kinase 2 Mutations: Genetics, Mechanisms and Therapeutic Implications. Neurotherapeutics, 2014, 11, 738-750.	4.4	51

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145	Expression of PINK1 mRNA in human and rodent brain and in Parkinson's disease. Brain Research, 2007, 1184, 10-16.	2.2	50
146	A comprehensive analysis of SNCAâ€related genetic risk in sporadic parkinson disease. Annals of Neurology, 2018, 84, 117-129.	5.3	50
147	Variation in tau isoform expression in different brain regions and disease states. Neurobiology of Aging, 2013, 34, 1922.e7-1922.e12.	3.1	49
148	Differential proteinâ€“protein interactions of <scp>LRRK</scp>1 and <scp>LRRK</scp>2 indicate roles in distinct cellular signaling pathways. Journal of Neurochemistry, 2014, 131, 239-250.	3.9	49
149	The DYT6 Dystonia Protein THAP1 Regulates Myelination within the Oligodendrocyte Lineage. Developmental Cell, 2017, 42, 52-67.e4.	7.0	49
150	LRRK2 mediates microglial neurotoxicity via NFATc2 in rodent models of synucleinopathies. Science Translational Medicine, 2020, 12, .	12.4	49
151	The Parkinsonâ€™s Disease Protein LRRK2 Interacts with the GARP Complex to Promote Retrograde Transport to the trans-Golgi Network. Cell Reports, 2020, 31, 107614.	6.4	49
152	Cu/Zn superoxide dismutase (SOD1) mutations associated with familial amyotrophic lateral sclerosis (ALS) affect cellular free radical release in the presence of oxidative stress. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders: Official Publication of the World Federation of Neurology, Research Group on Motor Neuron Diseases, 2002, 3, 75-85.	1.2	48
153	Parkin's Substrates and the Pathways Leading to Neuronal Damage. NeuroMolecular Medicine, 2003, 3, 1-14.	3.4	48
154	Mutations in LRRK2 linked to Parkinson disease sequester Rab8a to damaged lysosomes and regulate transferrin-mediated iron uptake in microglia. PLoS Biology, 2021, 19, e3001480.	5.6	48
155	Cell population-specific expression analysis of human cerebellum. BMC Genomics, 2012, 13, 610.	2.8	47
156	Transcriptomic profiling of the human brain reveals that altered synaptic gene expression is associated with chronological aging. Scientific Reports, 2017, 7, 16890.	3.3	47
157	The Genetic Architecture of Parkinson Disease in Spain: Characterizing Populationâ€Specific Risk, Differential Haplotype Structures, and Providing Etiologic Insight. Movement Disorders, 2019, 34, 1851-1863.	3.9	47
158	PAK6 Phosphorylates 14-3-3Î³ to Regulate Steady State Phosphorylation of LRRK2. Frontiers in Molecular Neuroscience, 2017, 10, 417.	2.9	46
159	Association of Variants in the SPTLC1 Gene With Juvenile Amyotrophic Lateral Sclerosis. JAMA Neurology, 2021, 78, 1236.	9.0	46
160	RNAâ€binding proteins implicated in neurodegenerative diseases. Wiley Interdisciplinary Reviews RNA, 2017, 8, e1397.	6.4	45
161	Parkin deficiency disrupts calcium homeostasis by modulating phospholipaseâ€ƒC signalling. FEBS Journal, 2009, 276, 5041-5052.	4.7	44
162	The role of PTEN-induced kinase 1 in mitochondrial dysfunction and dynamics. International Journal of Biochemistry and Cell Biology, 2009, 41, 2025-2035.	2.8	44

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163	Î±-Synuclein overexpression increases dopamine toxicity in BE(2)-M17 cells. BMC Neuroscience, 2010, 11, 41.	1.9	44
164	LAG3 is not expressed in human and murine neurons and does not modulate Î±â€synucleinopathies. EMBO Molecular Medicine, 2021, 13, e14745.	6.9	44
165	Cellular functions of LRRK2 implicate vesicular trafficking pathways in Parkinson's disease. Biochemical Society Transactions, 2016, 44, 1603-1610.	3.4	43
166	LRRK2 recruitment, activity, and function in organelles. FEBS Journal, 2022, 289, 6871-6890.	4.7	43
167	The R1441C mutation alters the folding properties of the ROC domain of LRRK2. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2009, 1792, 1194-1197.	3.8	42
168	Gene expression in the Parkinson's disease brain. Brain Research Bulletin, 2012, 88, 302-312.	3.0	42
169	Initial Assessment of the Pathogenic Mechanisms of the Recently Identified Alzheimer Risk Loci. Annals of Human Genetics, 2013, 77, 85-105.	0.8	41
170	The impact of fraudulent and irreproducible data to the translational research crisis â€“ solutions and implementation. Journal of Neurochemistry, 2016, 139, 253-270.	3.9	41
171	Identification of sixteen novel candidate genes for late onset Parkinsonâ€™s disease. Molecular Neurodegeneration, 2021, 16, 35.	10.8	41
172	Hexokinases link DJ-1 to the PINK1/parkin pathway. Molecular Neurodegeneration, 2017, 12, 70.	10.8	40
173	The expression of the glutamate re-uptake transporter excitatory amino acid transporter 1 (EAAT1) in the normal human CNS and in motor neurone disease: an immunohistochemical study. Neuroscience, 2002, 109, 27-44.	2.3	39
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