

Mark R Cookson

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

282
papers

33,821
citations

86
h-index

181
g-index

323
ext. papers

39,175
ext. citations

8.7
avg, IF

7.12
L-index

#	Paper	IF	Citations
282	alpha-Synuclein locus triplication causes Parkinson's disease. <i>Science</i> , 2003 , 302, 841	33.3	3252
281	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-544	16.2	2783
280	PINK1 is selectively stabilized on impaired mitochondria to activate Parkin. <i>PLoS Biology</i> , 2010 , 8, e1000298	29.8	1887
279	Genome-wide association study reveals genetic risk underlying Parkinson's disease. <i>Nature Genetics</i> , 2009 , 41, 1308-12	36.3	1469
278	The Parkinson's disease protein DJ-1 is neuroprotective due to cysteine-sulfinic acid-driven mitochondrial localization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 9103-8	11.5	888
277	Abundant quantitative trait loci exist for DNA methylation and gene expression in human brain. <i>PLoS Genetics</i> , 2010 , 6, e1000952	6	612
276	Kinase activity is required for the toxic effects of mutant LRRK2/dardarin. <i>Neurobiology of Disease</i> , 2006 , 23, 329-41	7.5	608
275	Common genetic variants influence human subcortical brain structures. <i>Nature</i> , 2015 , 520, 224-9	50.4	601
274	Identification of novel risk loci, causal insights, and heritable risk for Parkinson's disease: a meta-analysis of genome-wide association studies. <i>Lancet Neurology</i> , 2019 , 18, 1091-1102	24.1	562
273	The biochemistry of Parkinson's disease. <i>Annual Review of Biochemistry</i> , 2005 , 74, 29-52	29.1	536
272	Parkin protects against the toxicity associated with mutant alpha-synuclein: proteasome dysfunction selectively affects catecholaminergic neurons. <i>Neuron</i> , 2002 , 36, 1007-19	13.9	506
271	An in vitro model of Parkinson's disease: linking mitochondrial impairment to altered alpha-synuclein metabolism and oxidative damage. <i>Journal of Neuroscience</i> , 2002 , 22, 7006-15	6.6	490
270	Genetic variability in the regulation of gene expression in ten regions of the human brain. <i>Nature Neuroscience</i> , 2014 , 17, 1418-1428	25.5	483
269	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). <i>Autophagy</i> , 2021 , 17, 1-382	10.2	440
268	Alpha-synuclein implicated in Parkinson's disease is present in extracellular biological fluids, including human plasma. <i>FASEB Journal</i> , 2003 , 17, 1945-7	0.9	436
267	The role of leucine-rich repeat kinase 2 (LRRK2) in Parkinson's disease. <i>Nature Reviews Neuroscience</i> , 2010 , 11, 791-7	13.5	400
266	Identification of common variants influencing risk of the tauopathy progressive supranuclear palsy. <i>Nature Genetics</i> , 2011 , 43, 699-705	36.3	386

265	Evidence for natural antisense transcript-mediated inhibition of microRNA function. <i>Genome Biology</i> , 2010 , 11, R56	18.3	375
264	A soluble E ₃ synuclein construct forms a dynamic tetramer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17797-802	11.5	354
263	DJ-1 acts in parallel to the PINK1/parkin pathway to control mitochondrial function and autophagy. <i>Human Molecular Genetics</i> , 2011 , 20, 40-50	5.6	346
262	The expression of DJ-1 (PARK7) in normal human CNS and idiopathic Parkinson's disease. <i>Brain</i> , 2004 , 127, 420-30	11.2	341
261	Mutations in the Matrin 3 gene cause familial amyotrophic lateral sclerosis. <i>Nature Neuroscience</i> , 2014 , 17, 664-666	25.5	319
260	Distinct DNA methylation changes highly correlated with chronological age in the human brain. <i>Human Molecular Genetics</i> , 2011 , 20, 1164-72	5.6	312
259	Mutations in PTEN-induced putative kinase 1 associated with recessive parkinsonism have differential effects on protein stability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 5703-8	11.5	303
258	Unbiased screen for interactors of leucine-rich repeat kinase 2 supports a common pathway for sporadic and familial Parkinson disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 2626-31	11.5	282
257	Mitochondrial function and morphology are impaired in parkin-mutant fibroblasts. <i>Annals of Neurology</i> , 2008 , 64, 555-65	9.4	280
256	Intersecting pathways to neurodegeneration in Parkinson's disease: effects of the pesticide rotenone on DJ-1, alpha-synuclein, and the ubiquitin-proteasome system. <i>Neurobiology of Disease</i> , 2006 , 22, 404-20	7.5	262
255	alpha-Synuclein and neuronal cell death. <i>Molecular Neurodegeneration</i> , 2009 , 4, 9	19	257
254	Genetics of Parkinson's disease and parkinsonism. <i>Annals of Neurology</i> , 2006 , 60, 389-98	9.4	252
253	Genome-wide association study of obsessive-compulsive disorder. <i>Molecular Psychiatry</i> , 2013 , 18, 788-98	15.1	244
252	Pink1 forms a multiprotein complex with Miro and Milton, linking Pink1 function to mitochondrial trafficking. <i>Biochemistry</i> , 2009 , 48, 2045-52	3.2	238
251	The Parkinson disease-associated leucine-rich repeat kinase 2 (LRRK2) is a dimer that undergoes intramolecular autophosphorylation. <i>Journal of Biological Chemistry</i> , 2008 , 283, 16906-14	5.4	236
250	Lysosomal impairment in Parkinson's disease. <i>Movement Disorders</i> , 2013 , 28, 725-32	7	228
249	Deletion at ITPR1 underlies ataxia in mice and spinocerebellar ataxia 15 in humans. <i>PLoS Genetics</i> , 2007 , 3, e108	6	221
248	The R1441C mutation of LRRK2 disrupts GTP hydrolysis. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 357, 668-71	3.4	219

247	Major Shifts in Glial Regional Identity Are a Transcriptional Hallmark of Human Brain Aging. <i>Cell Reports</i> , 2017 , 18, 557-570	10.6	217
246	Leucine-rich repeat kinase 2 mutations and Parkinson's disease: three questions. <i>ASN Neuro</i> , 2009 , 1,	5.3	216
245	Formation of a stabilized cysteine sulfinic acid is critical for the mitochondrial function of the parkinsonism protein DJ-1. <i>Journal of Biological Chemistry</i> , 2009 , 284, 6476-85	5.4	210
244	Excessive burden of lysosomal storage disorder gene variants in Parkinson's disease. <i>Brain</i> , 2017 , 140, 3191-3203	11.2	209
243	A two-stage meta-analysis identifies several new loci for Parkinson's disease. <i>PLoS Genetics</i> , 2011 , 7, e1002142	6	209
242	Cytoplasmic Pink1 activity protects neurons from dopaminergic neurotoxin MPTP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 1716-21	11.5	206
241	Mitochondrial dysfunction in a cell culture model of familial amyotrophic lateral sclerosis. <i>Brain</i> , 2002 , 125, 1522-33	11.2	205
240	Structure of the ROC domain from the Parkinson's disease-associated leucine-rich repeat kinase 2 reveals a dimeric GTPase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 1499-504	11.5	198
239	LRRK2 modulates vulnerability to mitochondrial dysfunction in <i>Caenorhabditis elegans</i> . <i>Journal of Neuroscience</i> , 2009 , 29, 9210-8	6.6	196
238	Converging pathways in neurodegeneration, from genetics to mechanisms. <i>Nature Neuroscience</i> , 2018 , 21, 1300-1309	25.5	183
237	L166P mutant DJ-1, causative for recessive Parkinson's disease, is degraded through the ubiquitin-proteasome system. <i>Journal of Biological Chemistry</i> , 2003 , 278, 36588-95	5.4	181
236	Novel genetic loci associated with hippocampal volume. <i>Nature Communications</i> , 2017 , 8, 13624	17.4	173
235	RNA binding activity of the recessive parkinsonism protein DJ-1 supports involvement in multiple cellular pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 10244-9	11.5	171
234	DYT16, a novel young-onset dystonia-parkinsonism disorder: identification of a segregating mutation in the stress-response protein PRKRA. <i>Lancet Neurology</i> , 2008 , 7, 207-15	24.1	159
233	The chaperone activity of heat shock protein 90 is critical for maintaining the stability of leucine-rich repeat kinase 2. <i>Journal of Neuroscience</i> , 2008 , 28, 3384-91	6.6	158
232	Oxidative stress and motor neurone disease. <i>Brain Pathology</i> , 1999 , 9, 165-86	6	156
231	Mitochondrial alterations in PINK1 deficient cells are influenced by calcineurin-dependent dephosphorylation of dynamin-related protein 1. <i>PLoS ONE</i> , 2009 , 4, e5701	3.7	150
230	Novel genetic loci underlying human intracranial volume identified through genome-wide association. <i>Nature Neuroscience</i> , 2016 , 19, 1569-1582	25.5	147

229	A strategy for designing inhibitors of alpha-synuclein aggregation and toxicity as a novel treatment for Parkinson's disease and related disorders. <i>FASEB Journal</i> , 2004 , 18, 1315-7	0.9	146
228	LRRK2 phosphorylates membrane-bound Rabs and is activated by GTP-bound Rab7L1 to promote recruitment to the trans-Golgi network. <i>Human Molecular Genetics</i> , 2018 , 27, 385-395	5.6	143
227	Cell systems and the toxic mechanism(s) of alpha-synuclein. <i>Experimental Neurology</i> , 2008 , 209, 5-11	5.7	141
226	Caspase-1 causes truncation and aggregation of the Parkinson's disease-associated protein β synuclein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 9587-92	11.5	139
225	Parkinson's disease: insights from pathways. <i>Human Molecular Genetics</i> , 2010 , 19, R21-7	5.6	137
224	MAPT expression and splicing is differentially regulated by brain region: relation to genotype and implication for tauopathies. <i>Human Molecular Genetics</i> , 2012 , 21, 4094-103	5.6	134
223	Metabolic activity determines efficacy of macroautophagic clearance of pathological oligomeric alpha-synuclein. <i>American Journal of Pathology</i> , 2009 , 175, 736-47	5.8	127
222	The Parkinson's disease kinase LRRK2 autophosphorylates its GTPase domain at multiple sites. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 389, 449-54	3.4	125
221	Evolutionary and functional relationships within the DJ1 superfamily. <i>BMC Evolutionary Biology</i> , 2004 , 4, 6	3	120
220	DJ-1 regulation of mitochondrial function and autophagy through oxidative stress. <i>Autophagy</i> , 2011 , 7, 531-2	10.2	118
219	Reelin and stk25 have opposing roles in neuronal polarization and dendritic Golgi deployment. <i>Cell</i> , 2010 , 143, 826-36	56.2	117
218	Co-ordinate transcriptional regulation of dopamine synthesis genes by alpha-synuclein in human neuroblastoma cell lines. <i>Journal of Neurochemistry</i> , 2003 , 85, 957-68	6	116
217	Mutant LRRK2 toxicity in neurons depends on LRRK2 levels and synuclein but not kinase activity or inclusion bodies. <i>Journal of Neuroscience</i> , 2014 , 34, 418-33	6.6	115
216	Parkinsonism due to mutations in PINK1, parkin, and DJ-1 and oxidative stress and mitochondrial pathways. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2012 , 2, a009415	5.4	111
215	RING finger 1 mutations in Parkin produce altered localization of the protein. <i>Human Molecular Genetics</i> , 2003 , 12, 2957-65	5.6	111
214	Genome-wide screen identifies rs646776 near sortilin as a regulator of progranulin levels in human plasma. <i>American Journal of Human Genetics</i> , 2010 , 87, 890-7	11	110
213	Identification and functional characterization of a novel R621C mutation in the synphilin-1 gene in Parkinson's disease. <i>Human Molecular Genetics</i> , 2003 , 12, 1223-31	5.6	110
212	Emerging pathways in genetic Parkinson's disease: Potential role of ceramide metabolism in Lewy body disease. <i>FEBS Journal</i> , 2008 , 275, 5767-73	5.7	109

211	mRNA expression, splicing and editing in the embryonic and adult mouse cerebral cortex. <i>Nature Neuroscience</i> , 2013 , 16, 499-506	25.5	107
210	LRRK2 at the interface of autophagosomes, endosomes and lysosomes. <i>Molecular Neurodegeneration</i> , 2016 , 11, 73	19	107
209	Membrane-associated Farnesylated UCH-L1 promotes alpha-synuclein neurotoxicity and is a therapeutic target for Parkinson's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 4635-40	11.5	102
208	Cross-disorder genome-wide analyses suggest a complex genetic relationship between Tourette's syndrome and OCD. <i>American Journal of Psychiatry</i> , 2015 , 172, 82-93	11.9	101
207	Insight into the mode of action of the LRRK2 Y1699C pathogenic mutant. <i>Journal of Neurochemistry</i> , 2011 , 116, 304-15	6	101
206	Integration of GWAS SNPs and tissue specific expression profiling reveal discrete eQTLs for human traits in blood and brain. <i>Neurobiology of Disease</i> , 2012 , 47, 20-8	7.5	100
205	A direct interaction between leucine-rich repeat kinase 2 and specific β tubulin isoforms regulates tubulin acetylation. <i>Journal of Biological Chemistry</i> , 2014 , 289, 895-908	5.4	98
204	The expression of the glial glutamate transporter protein EAAT2 in motor neuron disease: an immunohistochemical study. <i>European Journal of Neuroscience</i> , 1998 , 10, 2481-9	3.5	97
203	A pathway-based analysis provides additional support for an immune-related genetic susceptibility to Parkinson's disease. <i>Human Molecular Genetics</i> , 2013 , 22, 1039-49	5.6	96
202	Mitochondria and dopamine: new insights into recessive parkinsonism. <i>Neuron</i> , 2004 , 43, 301-4	13.9	94
201	Development and characterisation of a glutamate-sensitive motor neurone cell line. <i>Journal of Neurochemistry</i> , 2000 , 74, 1895-902	6	92
200	Age-associated miRNA alterations in skeletal muscle from rhesus monkeys reversed by caloric restriction. <i>Aging</i> , 2013 , 5, 692-703	5.6	91
199	Parkinson disease-associated mutation R1441H in LRRK2 prolongs the "active state" of its GTPase domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4055-60	11.5	88
198	LRRK2 Pathways Leading to Neurodegeneration. <i>Current Neurology and Neuroscience Reports</i> , 2015 , 15, 42	6.6	87
197	The G2385R variant of leucine-rich repeat kinase 2 associated with Parkinson's disease is a partial loss-of-function mutation. <i>Biochemical Journal</i> , 2012 , 446, 99-111	3.8	87
196	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. <i>Journal of Biological Chemistry</i> , 2003 , 278, 6371-83	5.4	85
195	Genes and parkinsonism. <i>Lancet Neurology</i> , <i>The</i> , 2003 , 2, 221-8	24.1	85
194	Tyrosinase exacerbates dopamine toxicity but is not genetically associated with Parkinson's disease. <i>Journal of Neurochemistry</i> , 2005 , 93, 246-56	6	84

193	LRRK2 promotes the activation of NLRC4 inflammasome during Typhimurium infection. <i>Journal of Experimental Medicine</i> , 2017 , 214, 3051-3066	16.6	83
192	MKK6 binds and regulates expression of Parkinson's disease-related protein LRRK2. <i>Journal of Neurochemistry</i> , 2010 , 112, 1593-604	6	83
191	Pathways to Parkinsonism. <i>Neuron</i> , 2003 , 37, 7-10	13.9	83
190	LRRK2 links genetic and sporadic Parkinson's disease. <i>Biochemical Society Transactions</i> , 2019 , 47, 651-661	3.1	82
189	LRRK2 kinase activity is dependent on LRRK2 GTP binding capacity but independent of LRRK2 GTP binding. <i>PLoS ONE</i> , 2011 , 6, e23207	3.7	80
188	Peroxynitrite and hydrogen peroxide induced cell death in the NSC34 neuroblastoma x spinal cord cell line: role of poly (ADP-ribose) polymerase. <i>Journal of Neurochemistry</i> , 1998 , 70, 501-8	6	78
187	Biochemical characterization of highly purified leucine-rich repeat kinases 1 and 2 demonstrates formation of homodimers. <i>PLoS ONE</i> , 2012 , 7, e43472	3.7	78
186	The Parkinson's disease associated LRRK2 exhibits weaker in vitro phosphorylation of 4E-BP compared to autophosphorylation. <i>PLoS ONE</i> , 2010 , 5, e8730	3.7	77
185	Phosphorylation of LRRK2 by casein kinase 1 β regulates trans-Golgi clustering via differential interaction with ARHGEF7. <i>Nature Communications</i> , 2014 , 5, 5827	17.4	76
184	Identification of protein phosphatase 1 as a regulator of the LRRK2 phosphorylation cycle. <i>Biochemical Journal</i> , 2013 , 456, 119-28	3.8	76
183	Effects of DJ-1 mutations and polymorphisms on protein stability and subcellular localization. <i>Molecular Brain Research</i> , 2005 , 134, 76-83		75
182	Mitochondrial quality control and dynamics in Parkinson's disease. <i>Antioxidants and Redox Signaling</i> , 2012 , 16, 869-82	8.4	74
181	Mutations in LRRK2/dardarin associated with Parkinson disease are more toxic than equivalent mutations in the homologous kinase LRRK1. <i>Journal of Neurochemistry</i> , 2007 , 102, 93-102	6	72
180	Finding useful biomarkers for Parkinson's disease. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	69
179	Genetic modifiers of risk and age at onset in GBA associated Parkinson's disease and Lewy body dementia. <i>Brain</i> , 2020 , 143, 234-248	11.2	69
178	Hexokinase activity is required for recruitment of parkin to depolarized mitochondria. <i>Human Molecular Genetics</i> , 2014 , 23, 145-56	5.6	68
177	DJ-1, PINK1, and their effects on mitochondrial pathways. <i>Movement Disorders</i> , 2010 , 25 Suppl 1, S44-8	7	67
176	Glial phagocytic clearance in Parkinson's disease. <i>Molecular Neurodegeneration</i> , 2019 , 14, 16	19	66

175	FUS mutations in sporadic amyotrophic lateral sclerosis. <i>Neurobiology of Aging</i> , 2011 , 32, 550.e1-4	5.6	64
174	Amyotrophic lateral sclerosis 2-deficiency leads to neuronal degeneration in amyotrophic lateral sclerosis through altered AMPA receptor trafficking. <i>Journal of Neuroscience</i> , 2006 , 26, 11798-806	6.6	64
173	Genetic neuropathology of Parkinson's disease. <i>International Journal of Clinical and Experimental Pathology</i> , 2008 , 1, 217-31	1.4	63
172	Pathways to Parkinsonism Redux: convergent pathobiological mechanisms in genetics of Parkinson's disease. <i>Human Molecular Genetics</i> , 2015 , 24, R32-44	5.6	61
171	Analysis of IFT74 as a candidate gene for chromosome 9p-linked ALS-FTD. <i>BMC Neurology</i> , 2006 , 6, 44	3.1	61
170	Selective loss of neurofilament expression in Cu/Zn superoxide dismutase (SOD1) linked amyotrophic lateral sclerosis. <i>Journal of Neurochemistry</i> , 2002 , 82, 1118-28	6	60
169	Aggregation of β synuclein in brain samples from subjects with glucocerebrosidase mutations. <i>Molecular Genetics and Metabolism</i> , 2011 , 104, 185-8	3.7	57
168	Post-transcriptional regulation of mRNA associated with DJ-1 in sporadic Parkinson disease. <i>Neuroscience Letters</i> , 2009 , 452, 8-11	3.3	57
167	Mechanisms in dominant parkinsonism: The toxic triangle of LRRK2, alpha-synuclein, and tau. <i>BioEssays</i> , 2010 , 32, 227-235	4.1	57
166	The Endosomal-Lysosomal Pathway Is Dysregulated by Expression. <i>Frontiers in Neuroscience</i> , 2017 , 11, 702	5.1	56
165	How genetics research in Parkinson's disease is enhancing understanding of the common idiopathic forms of the disease. <i>Current Opinion in Neurology</i> , 2005 , 18, 706-11	7.1	56
164	mTOR independent regulation of macroautophagy by Leucine Rich Repeat Kinase 2 via Beclin-1. <i>Scientific Reports</i> , 2016 , 6, 35106	4.9	54
163	Transfected synphilin-1 forms cytoplasmic inclusions in HEK293 cells. <i>Molecular Brain Research</i> , 2001 , 97, 94-102		53
162	The role of monogenic genes in idiopathic Parkinson's disease. <i>Neurobiology of Disease</i> , 2019 , 124, 230-239		53
161	Genes associated with Parkinson's disease: regulation of autophagy and beyond. <i>Journal of Neurochemistry</i> , 2016 , 139 Suppl 1, 91-107	6	50
160	Frequency of Loss of Function Variants in LRRK2 in Parkinson Disease. <i>JAMA Neurology</i> , 2018 , 75, 1416-1422	14.2	50
159	Is inhibition of kinase activity the only therapeutic strategy for LRRK2-associated Parkinson's disease?. <i>BMC Medicine</i> , 2012 , 10, 20	11.4	50
158	Parkinson disease-associated mutations in LRRK2 cause centrosomal defects via Rab8a phosphorylation. <i>Molecular Neurodegeneration</i> , 2018 , 13, 3	19	49

157	Genetic comorbidities in Parkinson's disease. <i>Human Molecular Genetics</i> , 2014 , 23, 831-41	5.6	49
156	Glial cell inclusions and the pathogenesis of neurodegenerative diseases. <i>Neuron Glia Biology</i> , 2004 , 1, 13-21		48
155	LRRK2 mediates tubulation and vesicle sorting from lysosomes. <i>Science Advances</i> , 2020 , 6,	14.3	48
154	Age-associated changes in gene expression in human brain and isolated neurons. <i>Neurobiology of Aging</i> , 2013 , 34, 1199-209	5.6	44
153	Leucine-rich repeat kinase 2 interacts with p21-activated kinase 6 to control neurite complexity in mammalian brain. <i>Journal of Neurochemistry</i> , 2015 , 135, 1242-56	6	44
152	Expression of PINK1 mRNA in human and rodent brain and in Parkinson's disease. <i>Brain Research</i> , 2007 , 1184, 10-6	3.7	44
151	The metalloprotease inhibitor TIMP-3 regulates amyloid precursor protein and apolipoprotein E receptor proteolysis. <i>Journal of Neuroscience</i> , 2007 , 27, 10895-905	6.6	44
150	The roles of kinases in familial Parkinson's disease. <i>Journal of Neuroscience</i> , 2007 , 27, 11865-8	6.6	43
149	Cu/Zn superoxide dismutase (SOD1) mutations associated with familial amyotrophic lateral sclerosis (ALS) affect cellular free radical release in the presence of oxidative stress. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders: Official Publication of the World Federation of Neurology, Research Group on Motor Neuron Diseases</i> , 2002 , 3, 75-85		43
148	Heterogeneity of leucine-rich repeat kinase 2 mutations: genetics, mechanisms and therapeutic implications. <i>Neurotherapeutics</i> , 2014 , 11, 738-50	6.4	42
147	The endocytic membrane trafficking pathway plays a major role in the risk of Parkinson's disease. <i>Movement Disorders</i> , 2019 , 34, 460-468	7	40
146	Initial assessment of the pathogenic mechanisms of the recently identified Alzheimer risk Loci. <i>Annals of Human Genetics</i> , 2013 , 77, 85-105	2.2	40
145	Parkin's substrates and the pathways leading to neuronal damage. <i>NeuroMolecular Medicine</i> , 2003 , 3, 1-13	4.6	40
144	Variation in tau isoform expression in different brain regions and disease states. <i>Neurobiology of Aging</i> , 2013 , 34, 1922.e7-1922.e12	5.6	39
143	Differential protein-protein interactions of LRRK1 and LRRK2 indicate roles in distinct cellular signaling pathways. <i>Journal of Neurochemistry</i> , 2014 , 131, 239-50	6	38
142	Resolving the polymorphism-in-probe problem is critical for correct interpretation of expression QTL studies. <i>Nucleic Acids Research</i> , 2013 , 41, e88	20.1	38
141	Alpha-synuclein overexpression increases dopamine toxicity in BE2-M17 cells. <i>BMC Neuroscience</i> , 2010 , 11, 41	3.2	38
140	Detection of endogenous S1292 LRRK2 autophosphorylation in mouse tissue as a readout for kinase activity. <i>Npj Parkinson Disease</i> , 2018 , 4, 13	9.7	37

139	Proteomic analysis reveals co-ordinated alterations in protein synthesis and degradation pathways in LRRK2 knockout mice. <i>Human Molecular Genetics</i> , 2018 , 27, 3257-3271	5.6	37
138	The R1441C mutation alters the folding properties of the ROC domain of LRRK2. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2009 , 1792, 1194-7	6.9	37
137	A comprehensive analysis of SNCA-related genetic risk in sporadic parkinson disease. <i>Annals of Neurology</i> , 2018 , 84, 117-129	9.4	33
136	Arsenite stress down-regulates phosphorylation and 14-3-3 binding of leucine-rich repeat kinase 2 (LRRK2), promoting self-association and cellular redistribution. <i>Journal of Biological Chemistry</i> , 2014 , 289, 21386-400	5.4	33
135	Parkin deficiency disrupts calcium homeostasis by modulating phospholipase C signalling. <i>FEBS Journal</i> , 2009 , 276, 5041-52	5.7	33
134	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. <i>Neuroscience</i> , 2002 , 109, 27-44	3.9	32
133	Cellular functions of LRRK2 implicate vesicular trafficking pathways in Parkinson's disease. <i>Biochemical Society Transactions</i> , 2016 , 44, 1603-1610	5.1	32
132	AKT signalling selectively regulates PINK1 mitophagy in SHSY5Y cells and human iPSC-derived neurons. <i>Scientific Reports</i> , 2018 , 8, 8855	4.9	31
131	Gene expression in the Parkinson's disease brain. <i>Brain Research Bulletin</i> , 2012 , 88, 302-12	3.9	31
130	Cell population-specific expression analysis of human cerebellum. <i>BMC Genomics</i> , 2012 , 13, 610	4.5	31
129	Characterisation of a novel NR4A2 mutation in Parkinson's disease brain. <i>Neuroscience Letters</i> , 2009 , 457, 75-9	3.3	31
128	Superoxide-induced nitric oxide release from cultured glial cells. <i>Brain Research</i> , 2001 , 911, 203-10	3.7	31
127	Transcriptome analysis of LRRK2 knock-out microglia cells reveals alterations of inflammatory- and oxidative stress-related pathways upon treatment with β synuclein fibrils. <i>Neurobiology of Disease</i> , 2019 , 129, 67-78	7.5	30
126	RNA-binding proteins implicated in neurodegenerative diseases. <i>Wiley Interdisciplinary Reviews RNA</i> , 2017 , 8, e1397	9.3	30
125	PAK6 Phosphorylates 14-3-3 ζ to Regulate Steady State Phosphorylation of LRRK2. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 417	6.1	30
124	Hexokinases link DJ-1 to the PINK1/parkin pathway. <i>Molecular Neurodegeneration</i> , 2017 , 12, 70	19	29
123	Screening of AP endonuclease as a candidate gene for amyotrophic lateral sclerosis (ALS). <i>NeuroReport</i> , 2000 , 11, 1695-7	1.7	29
122	The impact of fraudulent and irreproducible data to the translational research crisis - solutions and implementation. <i>Journal of Neurochemistry</i> , 2016 , 139 Suppl 2, 253-270	6	28

121	The DYT6 Dystonia Protein THAP1 Regulates Myelination within the Oligodendrocyte Lineage. <i>Developmental Cell</i> , 2017 , 42, 52-67.e4	10.2	28
120	The role of PTEN-induced kinase 1 in mitochondrial dysfunction and dynamics. <i>International Journal of Biochemistry and Cell Biology</i> , 2009 , 41, 2025-35	5.6	28
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