Etienne C Hirsch

List of Publications by Year
in descending order

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299 papers	35,155 citations	2795 94 h-index	3903 177 g-index
301 all docs	301 docs citations	301 times ranked	25958 citing authors

#	Article	IF	Citations
1	Neuroinflammation in Parkinson's disease: a target for neuroprotection?. Lancet Neurology, The, 2009, 8, 382-397.	4.9	1,648
2	The substantia nigra of the human brain. Brain, 1999, 122, 1437-1448.	3.7	1,481
3	Melanized dopaminergic neurons are differentially susceptible to degeneration in Parkinson's disease. Nature, 1988, 334, 345-348.	13.7	1,180
4	Infiltration of CD4+ lymphocytes into the brain contributes to neurodegeneration in a mouse model of Parkinson disease. Journal of Clinical Investigation, 2009, 119, 182-92.	3.9	875
5	Dopamine depletion impairs precursor cell proliferation in Parkinson disease. Nature Neuroscience, 2004, 7, 726-735.	7.1	842
6	Nuclear translocation of NF-ÂB is increased in dopaminergic neurons of patients with Parkinson disease. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 7531-7536.	3.3	657
7	Caspase-3: A vulnerability factor and final effector in apoptotic death of dopaminergic neurons in Parkinson's disease. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 2875-2880.	3.3	644
8	Missing pieces in the Parkinson's disease puzzle. Nature Medicine, 2010, 16, 653-661.	15.2	621
9	Nitric oxide synthase and neuronal vulnerability in parkinson's disease. Neuroscience, 1996, 72, 355-363.	1.1	556
10	Immunocytochemical analysis of tumor necrosis factor and its receptors in Parkinson's disease. Neuroscience Letters, 1994, 172, 151-154.	1.0	532
11	Neuroinflammation in Parkinson's disease. Parkinsonism and Related Disorders, 2012, 18, S210-S212.	1.1	516
12	Iron and Aluminum Increase in the Substantia Nigra of Patients with Parkinson's Disease: An X-Ray Microanalysis. Journal of Neurochemistry, 1991, 56, 446-451.	2.1	501
13	Neuronal loss in the pedunculopontine tegmental nucleus in Parkinson disease and in progressive supranuclear palsy.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 5976-5980.	3.3	499
14	Understanding Dopaminergic Cell Death Pathways in Parkinson Disease. Neuron, 2016, 90, 675-691.	3.8	460
15	Pedunculopontine Nucleus Region Deep Brain Stimulation in Parkinson Disease: Surgical Anatomy and Terminology. Stereotactic and Functional Neurosurgery, 2016, 94, 298-306.	0.8	452
16	Cellular localization of the Huntington's disease protein and discrimination of the normal and mutated form. Nature Genetics, 1995, 10, 104-110.	9.4	431
17	Glutathione peroxidase, glial cells and Parkinson's disease. Neuroscience, 1993, 52, 1-6.	1.1	422
18	FcÎµRII/CD23 Is Expressed in Parkinsonâ€™s Disease and Induces,In Vitro,Production of Nitric Oxide and Tumor Necrosis Factor-Î± in Glial Cells. Journal of Neuroscience, 1999, 19, 3440-3447.	1.7	399

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19	JNK-mediated induction of cyclooxygenase 2 is required for neurodegeneration in a mouse model of Parkinson's disease. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 665-670.	3.3	396
20	The substantia nigra of the human brain. Brain, 1999, 122, 1421-1436.	3.7	395
21	The Role of Glial Reaction and Inflammation in Parkinson's Disease. Annals of the New York Academy of Sciences, 2003, 991, 214-228.	1.8	394
22	Cholinergic mesencephalic neurons are involved in gait and postural disorders in Parkinson disease. Journal of Clinical Investigation, 2010, 120, 2745-2754.	3.9	359
23	Divalent metal transporter 1 (DMT1) contributes to neurodegeneration in animal models of Parkinson's disease. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18578-18583.	3.3	354
24	Neuroinflammatory processes in Parkinson's disease. Annals of Neurology, 2003, 53, S49-S60.	2.8	353
25	Parkin prevents mitochondrial swelling and cytochrome c release in mitochondria-dependent cell death. Human Molecular Genetics, 2003, 12, 517-526.	1.4	352
26	Protective action of the peroxisome proliferator-activated receptor-Î³ agonist pioglitazone in a mouse model of Parkinson's disease. Journal of Neurochemistry, 2002, 82, 615-624.	2.1	347
27	Spinocerebellar ataxia type 7 (SCA7): a neurodegenerative disorder with neuronal intranuclear inclusions. Human Molecular Genetics, 1998, 7, 913-918.	1.4	308
28	Activation of the subventricular zone in multiple sclerosis: Evidence for early glial progenitors. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4694-4699.	3.3	299
29	Glial cells and inflammation in parkinson's disease: A role in neurodegeneration?. Annals of Neurology, 1998, 44, S115-20.	2.8	289
30	Chronic systemic complex I inhibition induces a hypokinetic multisystem degeneration in rats. Journal of Neurochemistry, 2003, 84, 491-502.	2.1	284
31	Reduced expression of brain-derived neurotrophic factor protein in ParkinsonÊ¼s disease substantia nigra. NeuroReport, 1999, 10, 557-561.	0.6	272
32	Re-evaluation of the functional anatomy of the basal ganglia in normal and Parkinsonian states. Neuroscience, 1997, 76, 335-343.	1.1	262
33	Novel pharmacological targets for the treatment of Parkinson's disease. Nature Reviews Drug Discovery, 2006, 5, 845-854.	21.5	262
34	Pathogenesis of Parkinson's disease. Movement Disorders, 2013, 28, 24-30.	2.2	256
35	Subthalamotomy in parkinsonian monkeys Behavioural and biochemical analysis. Brain, 1996, 119, 1717-1727.	3.7	248
36	The pRb/E2F cell-cycle pathway mediates cell death in Parkinson's disease. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3585-3590.	3.3	245

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37	Caspase-8 Is an Effector in Apoptotic Death of Dopaminergic Neurons in Parkinson's Disease, But Pathway Inhibition Results in Neuronal Necrosis. Journal of Neuroscience, 2001, 21, 2247-2255.	1.7	242
38	Dysfunction of mitochondrial complex I and the proteasome: interactions between two biochemical deficits in a cellular model of Parkinson's disease. Journal of Neurochemistry, 2003, 86, 1297-1307.	2.1	239
39	Dopaminergic and cholinergic lesions in progressive supranuclear palsy. Annals of Neurology, 1985, 18, 523-529.	2.8	228
40	Is the Vulnerability of Neurons in the Substantia Nigra of Patients with Parkinson's Disease Related to Their Neuromelanin Content?. Journal of Neurochemistry, 1992, 59, 1080-1089.	2.1	218
41	The p38 subunit of the aminoacyl-tRNA synthetase complex is a Parkin substrate: linking protein biosynthesis and neurodegeneration. Human Molecular Genetics, 2003, 12, 1427-1437.	1.4	217
42	Involvement of Mitochondrial Complex II Defects in Neuronal Death Produced by N-Terminus Fragment of Mutated Huntingtin. Molecular Biology of the Cell, 2006, 17, 1652-1663.	0.9	217
43	Crosslinking of Î±-synuclein by advanced glycation endproducts â€" an early pathophysiological step in Lewy body formation?. Journal of Chemical Neuroanatomy, 2000, 20, 253-257.	1.0	212
44	Cystamine and cysteamine increase brain levels of BDNF in Huntington disease via HSJ1b and transglutaminase. Journal of Clinical Investigation, 2006, 116, 1410-1424.	3.9	211
45	Behavioural disorders induced by external globus pallidus dysfunction in primates: I. Behavioural study. Brain, 2004, 127, 2039-2054.	3.7	210
46	Neuromelanin associated redoxâ€active iron is increased in the substantia nigra of patients with Parkinson's disease. Journal of Neurochemistry, 2003, 86, 1142-1148.	2.1	206
47	Blood vessels change in the mesencephalon of patients with Parkinson's disease. Lancet, The, 1999, 353, 981-982.	6.3	202
48	Expression of lactoferrin receptors is increased in the mesencephalon of patients with Parkinson disease.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 9603-9607.	3.3	195
49	Heterogeneity and selectivity of the degeneration of cholinergic neurons in the basal forebrain of patients with Alzheimer's disease. Journal of Comparative Neurology, 1993, 330, 15-31.	0.9	194
50	Does adrenal graft enhance recovery of dopaminergic neurons in Parkinson's disease?. Annals of Neurology, 1990, 27, 676-682.	2.8	191
51	Annonacin, a lipophilic inhibitor of mitochondrial complex I, induces nigral and striatal neurodegeneration in rats: possible relevance for atypical parkinsonism in Guadeloupe. Journal of Neurochemistry, 2004, 88, 63-69.	2.1	187
52	Microglial glucocorticoid receptors play a pivotal role in regulating dopaminergic neurodegeneration in parkinsonism. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6632-6637.	3.3	184
53	The mitochondrial complex I inhibitor rotenone triggers a cerebral tauopathy. Journal of Neurochemistry, 2005, 95, 930-939.	2.1	183
54	Evidence of active microglia in substantia nigra pars compacta of parkinsonian monkeys 1 year after MPTP exposure. Glia, 2004, 46, 402-409.	2.5	181

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55	Neuroinflammatory processes in Parkinson's disease. Parkinsonism and Related Disorders, 2005, 11, S9-S15.	1.1	181
56	Annonacin, a Natural Mitochondrial Complex I Inhibitor, Causes Tau Pathology in Cultured Neurons. Journal of Neuroscience, 2007, 27, 7827-7837.	1.7	176
57	Behavioural disorders induced by external globus pallidus dysfunction in primates II. Anatomical study. Brain, 2004, 127, 2055-2070.	3.7	171
58	Evolution of changes in neuronal activity in the subthalamic nucleus of rats with unilateral lesion of the substantia nigra assessed by metabolic and electrophysiological measurements. European Journal of Neuroscience, 2000, 12, 337-344.	1.2	168
59	An immunohistochemical study of the distribution of brain-derived neurotrophic factor in the adult human brain, with particular reference to Alzheimer's disease. Neuroscience, 1999, 88, 1015-1032.	1.1	166
60	Biochemistry of Parkinson's disease 28 years later: A critical review. Movement Disorders, 1989, 4, S126-S144.	2.2	154
61	Consequences of Nigrostriatal Denervation on the Functioning of the Basal Ganglia in Human and Nonhuman Primates: AnIn SituHybridization Study of Cytochrome Oxidase Subunit I mRNA. Journal of Neuroscience, 1997, 17, 765-773.	1.7	154
62	Metabolic activity of excitatory parafascicular and pedunculopontine inputs to the subthalamic nucleus in a rat model of Parkinson's disease. Neuroscience, 2000, 97, 79-88.	1.1	153
63	Thalamic Neuronal Activity in Dopamine-Depleted Primates: Evidence for a Loss of Functional Segregation within Basal Ganglia Circuits. Journal of Neuroscience, 2005, 25, 1523-1531.	1.7	153
64	The mitochondrial complex i inhibitor annonacin is toxic to mesencephalic dopaminergic neurons by impairment of energy metabolism. Neuroscience, 2003, 121, 287-296.	1.1	150
65	Nuclear translocation of NF-Î°B in cholinergic neurons of patients with AlzheimerÊ¼s disease. NeuroReport, 1997, 8, 2849-2852.	0.6	147
66	Dopaminergic neurons degenerate by apoptosis in Parkinson's disease. Movement Disorders, 1999, 14, 383-384.	2.2	147
67	Increased m-calpain expression in the mesencephalon of patients with parkinson's disease but not in other neurodegenerative disorders involving the mesencephalon: a role in nerve cell death?. Neuroscience, 1996, 73, 979-987.	1.1	146
68	Persistent Increase in Olfactory Type G-Protein Â Subunit Levels May Underlie D1 Receptor Functional Hypersensitivity in Parkinson Disease. Journal of Neuroscience, 2004, 24, 7007-7014.	1.7	146
69	Decreased tyrosine hydroxylase messenger RNA in the surviving dopamine neurons of the substantia nigra in parkinson's disease: An in situ hybridization study. Neuroscience, 1990, 38, 245-253.	1.1	143
70	Preservation of midbrain catecholaminergic neurons in very old human subjects. Brain, 2000, 123, 366-373.	3.7	139
71	Is Bax a mitochondrial mediator in apoptotic death of dopaminergic neurons in Parkinson's disease?. Journal of Neurochemistry, 2001, 76, 1785-1793.	2.1	138
72	Dopaminergic Substantia Nigra Neurons Project Topographically Organized to the Subventricular Zone and Stimulate Precursor Cell Proliferation in Aged Primates. Journal of Neuroscience, 2006, 26, 2321-2325.	1.7	138

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73	Effects of l-DOPA on preproenkephalin and preprotachykinin gene expression in the MPTP-treated monkey striatum. Neuroscience, 1995, 68, 1189-1198.	1.1	136
74	Toll like receptor 4 mediates cell death in a mouse MPTP model of Parkinson disease. Scientific Reports, 2013, 3, 1393.	1.6	134
75	Ten Unsolved Questions About Neuroinflammation in Parkinson's Disease. Movement Disorders, 2021, 36, 16-24.	2.2	133
76	New striatal dopamine neurons in MPTP-treated macaques result from a phenotypic shift and not neurogenesis. Brain, 2006, 129, 1194-1200.	3.7	124
77	A new model to study compensatory mechanisms in MPTP-treated monkeys exhibiting recovery. Brain, 2007, 130, 2898-2914.	3.7	124
78	Neuronal vulnerability in Parkinsonâ€™s disease. Journal of Neural Transmission Supplementum, 1997, 50, 79-88.	0.5	118
79	Why are nigral catecholaminergic neurons more vulnerable than other cells in Parkinson's disease?. Annals of Neurology, 1992, 32, S88-S93.	2.8	117
80	The pallidosubthalamic projection: An anatomical substrate for nonmotor functions of the subthalamic nucleus in primates. Movement Disorders, 2005, 20, 172-180.	2.2	116
81	Normal and pathological gait: what we learn from Parkinson's disease: Figure 1. Journal of Neurology, Neurosurgery and Psychiatry, 2012, 83, 979-985.	0.9	116
82	Differences in tyrosine hydroxylase-like immunoreactivity characterize the mesostriatal innervation of striosomes and extrastriosomal matrix at maturity.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 303-307.	3.3	115
83	Cellular distribution of the iron-binding protein lactotransferrin in the mesencephalon of Parkinson's disease cases. Acta Neuropathologica, 1996, 91, 566-572.	3.9	111
84	Lack of up-regulation of ferritin is associated with sustained iron regulatory protein-1 binding activity in the substantia nigra of patients with Parkinson's disease. Journal of Neurochemistry, 2002, 83, 320-330.	2.1	111
85	Altered expression of vesicular glutamate transporters VGLUT1 and VGLUT2 in Parkinson disease. Neurobiology of Aging, 2007, 28, 568-578.	1.5	109
86	Rescue of Mesencephalic Dopaminergic Neurons in Culture by Low-Level Stimulation of Voltage-Gated Sodium Channels. Journal of Neuroscience, 2004, 24, 5922-5930.	1.7	106
87	Does the calcium binding protein calretinin protect dopaminergic neurons against degeneration in Parkinson's disease?. Brain Research, 1994, 668, 62-70.	1.1	105
88	Metabolic activity of the basal ganglia in parkinsonian syndromes in human and non-human primates: A cytochrome oxidase histochemistry study. Neuroscience, 1996, 71, 903-912.	1.1	104
89	Does Oxidative Stress Participate in Nerve Cell Death in Parkinsonâ€™s Disease?. European Neurology, 1993, 33, 52-59.	0.6	103
90	Synaptic Plasticity in the Caudate Nucleus of Patients with Parkinson's Disease. Experimental Neurology, 1996, 5, 121-128.	1.7	102

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91	Dopaminergic innervation of the subthalamic nucleus in the normal state, in MPTP-treated monkeys, and in Parkinson's disease patients. Journal of Comparative Neurology, 2000, 425, 121-129.	0.9	100
92	Atypical parkinsonism in Guadeloupe: a common risk factor for two closely related phenotypes?. Brain, 2007, 130, 816-827.	3.7	99
93	Does neuromelanin contribute to the vulnerability of catecholaminergic neurons in monkeys intoxicated with MPTP?. Neuroscience, 1993, 56, 499-511.	1.1	97
94	Caspase-3 activation in 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)-treated mice. Movement Disorders, 2001, 16, 185-189.	2.2	97
95	Changes in vascularization in substantia nigra pars compacta of monkeys rendered parkinsonian. Journal of Neural Transmission, 2005, 112, 1237-1248.	1.4	94
96	Bee Venom and Its Component Apamin as Neuroprotective Agents in a Parkinson Disease Mouse Model. PLoS ONE, 2013, 8, e61700.	1.1	93
97	Cigarette smoke and nicotine protect dopaminergic neurons against the 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine Parkinsonian toxin. Brain Research, 2003, 984, 224-232.	1.1	90
98	Behavioral changes are not directly related to striatal monoamine levels, number of nigral neurons, or dose of parkinsonian toxin MPTP in mice. Neurobiology of Disease, 2003, 14, 218-228.	2.1	90
99	Consequence of nigrostriatal denervation and L-dopa therapy on the expression of glutamic acid decarboxylase messenger RNA in the pallidum. Neurology, 1996, 47, 219-224.	1.5	88
100	Heterogeneous Intracellular Localization and Expression of Ataxin-3. Neurobiology of Disease, 1998, 5, 335-347.	2.1	88
101	Metabolic effects of nigrostriatal denervation in basal ganglia. Trends in Neurosciences, 2000, 23, S78-S85.	4.2	88
102	Paraxanthine, the Primary Metabolite of Caffeine, Provides Protection against Dopaminergic Cell Death via Stimulation of Ryanodine Receptor Channels. Molecular Pharmacology, 2008, 74, 980-989.	1.0	86
103	Mesencephalic cholinergic nuclei in progressive supranuclear palsy. Neurology, 1991, 41, 25-25.	1.5	85
104	Glial cell line-derived neurotrophic factor (GDNF) gene expression in the human brain: A post mortem in situ hybridization study with special reference to Parkinson's disease. Journal of Neural Transmission, 1996, 103, 1043-1052.	1.4	84
105	Behavioral Recovery in MPTP-Treated Monkeys: Neurochemical Mechanisms Studied by Intrastriatal Microdialysis. Journal of Neuroscience, 2008, 28, 9575-9584.	1.7	84
106	c-fos protein-like immunoreactivity: Distribution in the human brain and over-expression in the hippocampus of patients with Alzheimer's disease. Neuroscience, 1992, 46, 9-21.	1.1	82
107	Role of TNF-Î± Receptors in Mice Intoxicated with the Parkinsonian Toxin MPTP. Experimental Neurology, 2002, 177, 183-192.	2.0	81
108	Three-dimensional cartography of functional territories in the human striatopallidal complex by using calbindin immunoreactivity. Journal of Comparative Neurology, 2002, 450, 122-134.	0.9	81

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109	Expression of glutamate receptors in the human and rat basal ganglia: Effect of the dopaminergic denervation on AMPA receptor gene expression in the striatopallidal complex in parkinson's disease and rat with 6-OHDA lesion. , 1996, 368, 553-568.		80
110	Gait Disorders in Parkinsonian Monkeys with Pedunculopontine Nucleus Lesions: A Tale of Two Systems. Journal of Neuroscience, 2013, 33, 11986-11993.	1.7	80
111	Selective loss of cholinergic neurons in the ventral striatum of patients with Alzheimer disease.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 8580-8584.	3.3	79
112	Dopamine, tremor, and Parkinson's disease. Lancet, The, 1992, 340, 125-126.	6.3	79
113	Dopaminergic cell group A8 in the monkey: Anatomical organization and projections to the striatum. , 1999, 414, 334-347.		79
114	Protection of midbrain dopaminergic neurons by the endâ€product of purine metabolism uric acid: potentiation by lowâ€level depolarization. Journal of Neurochemistry, 2009, 109, 1118-1128.	2.1	79
115	Superoxide dismutase and Parkinson's disease. Lancet, The, 1990, 335, 1035-1036.	6.3	77
116	Levodopa induces a cytoplasmic localization of D1 dopamine receptors in striatal neurons in Parkinson's disease. Annals of Neurology, 1999, 46, 103-111.	2.8	77
117	Biochemistry of Parkinson's disease with special reference to the dopaminergic systems. Molecular Neurobiology, 1994, 9, 135-142.	1.9	74
118	Behavioral Consequences of Bicuculline Injection in the Subthalamic Nucleus and the Zona Incerta in Rat. Journal of Neuroscience, 2002, 22, 8711-8719.	1.7	74
119	Tyrosine hydroxylase protein and messenger RNA in the dopaminergic nigral neurons of patients with Parkinson's disease. Brain Research, 1993, 606, 341-345.	1.1	73
120	Decreased TrkA Gene Expression in Cholinergic Neurons of the Striatum and Basal Forebrain of Patients with Alzheimer's Disease. Experimental Neurology, 1997, 145, 245-252.	2.0	73
121	Does monoamine oxidase type B play a role in dopaminergic nerve cell death in Parkinson's disease?. Neurology, 1996, 46, 1262-1262.	1.5	72
122	Consequences of nigrostriatal denervation on the gamma-aminobutyric acidic neurons of substantia nigra pars reticulata and superior colliculus in parkinsonian syndromes. Neurology, 1996, 46, 802-809.	1.5	72
123	Neuroprotection of midbrain dopamine neurons by nicotine is gated by cytoplasmic Ca ²⁺. FASEB Journal, 2011, 25, 2563-2573.	0.2	72
124	Selective vulnerability of pigmented dopaminergic neurons in Parkinson's disease. Acta Neurologica Scandinavica, 1989, 80, 19-22.	1.0	71
125	Choline acetyltransferase-like immunoreactivity in the hippocampal formation of control subjects and patients with Alzheimer's disease. Neuroscience, 1989, 32, 701-714.	1.1	71
126	The Phenotypic Differentiation of Locus Ceruleus Noradrenergic Neurons Mediated by Brain-Derived Neurotrophic Factor Is Enhanced by Corticotropin Releasing Factor through the Activation of a cAMP-Dependent Signaling Pathway. Molecular Pharmacology, 2006, 70, 30-40.	1.0	71

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127	Tremor-related activity of neurons in the â€˜motorâ€™ thalamus: changes in firing rate and pattern in the MPTP vervet model of parkinsonism. European Journal of Neuroscience, 2003, 17, 2388-2400.	1.2	69
128	Decreased choline acetyltransferase mRNA expression in the nucleus basalis of Meynert in Alzheimer disease: an in situ hybridization study.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 9549-9553.	3.3	68
129	The Iron-Binding Protein Lactoferrin Protects Vulnerable Dopamine Neurons from Degeneration by Preserving Mitochondrial Calcium Homeostasis. Molecular Pharmacology, 2013, 84, 888-898.	1.0	68
130	NMDA receptor GluN2A/GluN2B subunit ratio as synaptic trait of levodopa-induced dyskinesias: from experimental models to patients. Frontiers in Cellular Neuroscience, 2015, 9, 245.	1.8	68
131	Modelling Parkinsonâ€like neurodegeneration via osmotic minipump delivery of MPTP and probenecid. Journal of Neurochemistry, 2008, 107, 701-711.	2.1	67
132	Metabolic activity of cerebellar and basal ganglia-thalamic neurons is reduced in parkinsonism. Brain, 2006, 130, 265-275.	3.7	66
133	Striosomes and extrastriosomal matrix contain different amounts of immunoreactive choline acetyltransferase in the human striatum. Neuroscience Letters, 1989, 96, 145-150.	1.0	63
134	Flavaglines as Potent Anticancer and Cytoprotective Agents. Journal of Medicinal Chemistry, 2012, 55, 10064-10073.	2.9	63
135	Alterations of GABAergic neurons in the basal ganglia of patients with progressive supranuclear palsy. Neurology, 1995, 45, 127-134.	1.5	62
136	FADD: A link between TNF family receptors and caspases in Parkinsonâ€™s disease. Neurology, 2002, 58, 308-310.	1.5	62
137	Immunocytochemical Quantification of Tyrosine Hydroxylase at a Cellular Level in the Mesencephalon of Control Subjects and Patients with Parkinson's and Alzheimer's Disease. Journal of Neurochemistry, 1993, 61, 1024-1034.	2.1	61
138	Distribution of ataxin-7 in normal human brain and retina. Brain, 2000, 123, 2519-2530.	3.7	60
139	Effect of mitochondrial complex I inhibition on Feâ€“S cluster protein activity. Biochemical and Biophysical Research Communications, 2011, 409, 241-246.	1.0	60
140	Distribution of manganese-dependent superoxide dismutase in the human brain. Neuroscience, 1994, 61, 317-330.	1.1	59
141	Effects of Nigrostriatal Denervation and L-Dopa Therapy on the GABAergic Neurons of the Striatum in MPTP-treated Monkeys and Parkinson's Disease: AnIn SituHybridization Study of GAD67mRNA. European Journal of Neuroscience, 1995, 7, 1199-1209.	1.2	59
142	Neuronal distribution of intranuclear inclusions in HuntingtonÊ¼s disease with adult onset. NeuroReport, 1998, 9, 1823-1826.	0.6	59
143	Specific needs of dopamine neurons for stimulation in order to survive: implication for Parkinson disease. FASEB Journal, 2013, 27, 3414-3423.	0.2	59
144	The Oxygen Paradox, the French Paradox, and age-related diseases. GeroScience, 2017, 39, 499-550.	2.1	59

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145	Somatic mosaicism of the CAG repeat expansion in spinocerebellar ataxia type 3/Machado-Joseph disease. Human Mutation, 1998, 11, 23-27.	1.1	58
146	The Neurotransmitter Noradrenaline Rescues Septal Cholinergic Neurons in Culture from Degeneration Caused by Low-Level Oxidative Stress. Molecular Pharmacology, 2005, 67, 1882-1891.	1.0	58
147	Glial cells and Parkinsonâ€™s disease. Journal of Neurology, 2000, 247, II58-II62.	1.8	57
148	Inflammation and dopaminergic neuronal loss in Parkinson's disease: a complex matter. Experimental Neurology, 2003, 184, 561-564.	2.0	57
149	Immunohistochemical study of catechol-O-methyltransferase in the human mesostriatal system. Neuroscience, 1994, 62, 449-457.	1.1	55
150	Functional Activity of Zona Incerta Neurons Is Altered after Nigrostriatal Denervation in Hemiparkinsonian Rats. Experimental Neurology, 2000, 162, 215-224.	2.0	54
151	Nitric oxide, glial cells and neuronal degeneration in parkinsonism. Trends in Pharmacological Sciences, 2000, 21, 163-165.	4.0	54
152	Pedunculopontine Nucleus Region Deep Brain Stimulation in Parkinson Disease: Surgical Techniques, Side Effects, and Postoperative Imaging. Stereotactic and Functional Neurosurgery, 2016, 94, 307-319.	0.8	54
153	Differential vulnerability of cholinergic projections to the mediodorsal nucleus of the thalamus in senile dementia of Alzheimer type and progressive supranuclear palsy. Neuroscience, 1991, 41, 25-31.	1.1	53
154	GM-1 ganglioside promotes the recovery of surviving midbrain dopaminergic neurons in MPTP-treated monkeys. Neuroscience, 1993, 56, 965-972.	1.1	53
155	Glucocorticoid receptor in astrocytes regulates midbrain dopamine neurodegeneration through connexin hemichannel activity. Cell Death and Differentiation, 2019, 26, 580-596.	5.0	53
156	Stathmin: Cellular localization of a major phosphoprotein in the adult rat and human CNS. Journal of Comparative Neurology, 1993, 337, 655-668.	0.9	51
157	Distribution of125I-Ferrotransferrin Binding Sites in the Mesencephalon of Control Subjects and Patients with Parkinson's Disease. Journal of Neurochemistry, 1993, 60, 2338-2341.	2.1	51
158	Analysis of monocyte infiltration in MPTP mice reveals that microglial CX3CR1 protects against neurotoxic over-induction of monocyte-attracting CCL2 by astrocytes. Journal of Neuroinflammation, 2017, 14, 60.	3.1	50
159	Quantitative Autoradiography of Tyrosine Hydroxylase Immunoreactivity in the Rat Brain. Journal of Neurochemistry, 1991, 57, 1212-1222.	2.1	49
160	Consequences of Dopaminergic Denervation on the Metabolic Activity of the Cortical Neurons Projecting to the Subthalamic Nucleus in the Rat. Journal of Neuroscience, 2002, 22, 8762-8770.	1.7	49
161	Neuronal vulnerability in Parkinson's disease. Parkinsonism and Related Disorders, 2012, 18, S52-S54.	1.1	49
162	Hepcidin attenuates amyloid betaâ€induced inflammatory and proâ€oxidant responses in astrocytes and microglia. Journal of Neurochemistry, 2017, 142, 140-152.	2.1	49

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163	Somatostatin messenger rna-containing neurons in Alzheimer's disease: An in situ hybridization study in hippocampus, parahippocampal cortex and frontal cortex. Neuroscience, 1994, 61, 755-764.	1.1	48
164	Differential distribution of the normal and mutated forms of huntingtin in the human brain. Annals of Neurology, 1997, 42, 712-719.	2.8	48
165	Parkin immunoreactivity in the brain of human and non-human primates: An immunohistochemical analysis in normal conditions and in Parkinsonian syndromes. Journal of Comparative Neurology, 2001, 432, 184-196.	0.9	48
166	Decreased tyrosine hydroxylase content in the dopaminergic neurons of MPTP-intoxicated monkeys: Effect of levodopa and GM1 ganglioside therapy. Annals of Neurology, 1994, 36, 206-214.	2.8	47
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