

Patrick P Michel

List of Publications by Year in descending order

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95
papers

5,997
citations

81889

39
h-index

74160

75
g-index

97
all docs

97
docs citations

97
times ranked

7204
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding Dopaminergic Cell Death Pathways in Parkinson Disease. <i>Neuron</i> , 2016, 90, 675-691.	8.1	460
2	The Role of Glial Reaction and Inflammation in Parkinson's Disease. <i>Annals of the New York Academy of Sciences</i> , 2003, 991, 214-228.	3.8	394
3	Chronic systemic complex I inhibition induces a hypokinetic multisystem degeneration in rats. <i>Journal of Neurochemistry</i> , 2003, 84, 491-502.	3.9	284
4	The pRb/E2F cell-cycle pathway mediates cell death in Parkinson's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 3585-3590.	7.1	245
5	Dysfunction of mitochondrial complex I and the proteasome: interactions between two biochemical deficits in a cellular model of Parkinson's disease. <i>Journal of Neurochemistry</i> , 2003, 86, 1297-1307.	3.9	239
6	Annonacin, a lipophilic inhibitor of mitochondrial complex I, induces nigral and striatal neurodegeneration in rats: possible relevance for atypical parkinsonism in Guadeloupe. <i>Journal of Neurochemistry</i> , 2004, 88, 63-69.	3.9	187
7	The mitochondrial complex I inhibitor rotenone triggers a cerebral tauopathy. <i>Journal of Neurochemistry</i> , 2005, 95, 930-939.	3.9	183
8	Ceramide Induces Apoptosis in Cultured Mesencephalic Neurons. <i>Journal of Neurochemistry</i> , 1996, 66, 733-739.	3.9	176
9	Annonacin, a Natural Mitochondrial Complex I Inhibitor, Causes Tau Pathology in Cultured Neurons. <i>Journal of Neuroscience</i> , 2007, 27, 7827-7837.	3.6	176
10	Mitochondrial Free Radical Signal in Ceramide-Dependent Apoptosis: A Putative Mechanism for Neuronal Death in Parkinson's Disease. <i>Journal of Neurochemistry</i> , 1997, 69, 1612-1621.	3.9	170
11	Is Bax a mitochondrial mediator in apoptotic death of dopaminergic neurons in Parkinson's disease?. <i>Journal of Neurochemistry</i> , 2001, 76, 1785-1793.	3.9	138
12	Toll like receptor 4 mediates cell death in a mouse MPTP model of Parkinson disease. <i>Scientific Reports</i> , 2013, 3, 1393.	3.3	134
13	Noradrenaline provides long-term protection to dopaminergic neurons by reducing oxidative stress. <i>Journal of Neurochemistry</i> , 2008, 79, 200-210.	3.9	130
14	Differential expression of tyrosine hydroxylase and membrane dopamine transporter genes in subpopulations of dopaminergic neurons of the rat mesencephalon. <i>Molecular Brain Research</i> , 1994, 22, 29-38.	2.3	127
15	Doxycycline Suppresses Microglial Activation by Inhibiting the p38 MAPK and NF- κ B Signaling Pathways. <i>Neurotoxicity Research</i> , 2016, 29, 447-459.	2.7	125
16	Rescue of Mesencephalic Dopaminergic Neurons in Culture by Low-Level Stimulation of Voltage-Gated Sodium Channels. <i>Journal of Neuroscience</i> , 2004, 24, 5922-5930.	3.6	106
17	The endoplasmic reticulum-mitochondria interface is perturbed in PARK2 knockout mice and patients with PARK2 mutations. <i>Human Molecular Genetics</i> , 2016, 25, ddw148.	2.9	105
18	parkin deficiency modulates NLRP3 inflammasome activation by attenuating an A β -dependent negative feedback loop. <i>Glia</i> , 2018, 66, 1736-1751.	4.9	100

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19	Toxicity of Annonaceae for dopaminergic neurons: Potential role in atypical parkinsonism in Guadeloupe. <i>Movement Disorders</i> , 2002, 17, 84-90.	3.9	96
20	Bee Venom and Its Component Apamin as Neuroprotective Agents in a Parkinson Disease Mouse Model. <i>PLoS ONE</i> , 2013, 8, e61700.	2.5	93
21	Cannabidiol prevents LPS-induced microglial inflammation by inhibiting ROS/NF- κ B-dependent signaling and glucose consumption. <i>Glia</i> , 2020, 68, 561-573.	4.9	93
22	Paraxanthine, the Primary Metabolite of Caffeine, Provides Protection against Dopaminergic Cell Death via Stimulation of Ryanodine Receptor Channels. <i>Molecular Pharmacology</i> , 2008, 74, 980-989.	2.3	86
23	Chronic Activation of the Cyclic AMP Signaling Pathway Promotes Development and Long-Term Survival of Mesencephalic Dopaminergic Neurons. <i>Journal of Neurochemistry</i> , 1996, 67, 1633-1642.	3.9	84
24	Protection of midbrain dopaminergic neurons by the end-product of purine metabolism uric acid: potentiation by low-level depolarization. <i>Journal of Neurochemistry</i> , 2009, 109, 1118-1128.	3.9	79
25	Activation of the Mitogen-Activated Protein Kinase (ERK1/2) Signaling Pathway by Cyclic AMP Potentiates the Neuroprotective Effect of the Neurotransmitter Noradrenaline on Dopaminergic Neurons. <i>Molecular Pharmacology</i> , 2002, 62, 1043-1052.	2.3	73
26	Neuroprotection of midbrain dopamine neurons by nicotine is gated by cytoplasmic Ca ²⁺ . <i>FASEB Journal</i> , 2011, 25, 2563-2573.	0.5	72
27	The Phenotypic Differentiation of Locus Coeruleus Noradrenergic Neurons Mediated by Brain-Derived Neurotrophic Factor Is Enhanced by Corticotropin Releasing Factor through the Activation of a cAMP-Dependent Signaling Pathway. <i>Molecular Pharmacology</i> , 2006, 70, 30-40.	2.3	71
28	The Iron-Binding Protein Lactoferrin Protects Vulnerable Dopamine Neurons from Degeneration by Preserving Mitochondrial Calcium Homeostasis. <i>Molecular Pharmacology</i> , 2013, 84, 888-898.	2.3	68
29	Modelling Parkinson-like neurodegeneration via osmotic minipump delivery of MPTP and probenecid. <i>Journal of Neurochemistry</i> , 2008, 107, 701-711.	3.9	67
30	Acceleration of conduction velocity linked to clustering of nodal components precedes myelination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E321-8.	7.1	65
31	Flavaglines as Potent Anticancer and Cytoprotective Agents. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 10064-10073.	6.4	63
32	Ceramide increases mitochondrial free calcium levels via caspase 8 and Bid: role in initiation of cell death. <i>Journal of Neurochemistry</i> , 2003, 84, 643-654.	3.9	62
33	Specific needs of dopamine neurons for stimulation in order to survive: implication for Parkinson disease. <i>FASEB Journal</i> , 2013, 27, 3414-3423.	0.5	59
34	The Neurotransmitter Noradrenaline Rescues Septal Cholinergic Neurons in Culture from Degeneration Caused by Low-Level Oxidative Stress. <i>Molecular Pharmacology</i> , 2005, 67, 1882-1891.	2.3	58
35	Rescue of Mesencephalic Dopamine Neurons by Anticancer Drug Cytosine Arabinoside. <i>Journal of Neurochemistry</i> , 1997, 69, 1499-1507.	3.9	53
36	Adenosine Prevents the Death of Mesencephalic Dopaminergic Neurons by a Mechanism that Involves Astrocytes. <i>Journal of Neurochemistry</i> , 1999, 72, 2074-2082.	3.9	50

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37	Toxic Effects of Iron for Cultured Mesencephalic Dopaminergic Neurons Derived from Rat Embryonic Brains. <i>Journal of Neurochemistry</i> , 1992, 59, 118-127.	3.9	48
38	Mitochondrial free calcium levels (Rhod-2 fluorescence) and ultrastructural alterations in neuronally differentiated PC12 cells during ceramide-dependent cell death. <i>Journal of Comparative Neurology</i> , 2000, 426, 297-315.	1.6	42
39	Role of activity-dependent mechanisms in the control of dopaminergic neuron survival. <i>Journal of Neurochemistry</i> , 2007, 101, 289-297.	3.9	42
40	Mechanisms of apoptosis in PC12 cells irreversibly differentiated with nerve growth factor and cyclic AMP. <i>Brain Research</i> , 1999, 821, 60-68.	2.2	39
41	Microglial glutamate release evoked by α -synuclein aggregates is prevented by dopamine. <i>Glia</i> , 2018, 66, 2353-2365.	4.9	39
42	Rifampicin and Its Derivative Rifampicin Quinone Reduce Microglial Inflammatory Responses and Neurodegeneration Induced In Vitro by α -Synuclein Fibrillary Aggregates. <i>Cells</i> , 2019, 8, 776.	4.1	39
43	Substance P, Neurokinins A and B, and Synthetic Tachykinin Peptides Protect Mesencephalic Dopaminergic Neurons in Culture via an Activity-Dependent Mechanism. <i>Molecular Pharmacology</i> , 2005, 68, 1214-1224.	2.3	38
44	The glutamate antagonist, MK-801, does not prevent dopaminergic cell death induced by the 1-methyl-4-phenylpyridinium ion (MPP+) in rat dissociated mesencephalic cultures. <i>Brain Research</i> , 1992, 597, 233-240.	2.2	37
45	Role of pedunclopontine cholinergic neurons in the vulnerability of nigral dopaminergic neurons in Parkinson's disease. <i>Experimental Neurology</i> , 2016, 275, 209-219.	4.1	36
46	Survival promotion of mesencephalic dopaminergic neurons by depolarizing concentrations of K+ requires concurrent inactivation of NMDA or AMPA/kainate receptors. <i>Journal of Neurochemistry</i> , 2001, 78, 163-174.	3.9	35
47	Doxycycline inhibits α -synuclein-associated pathologies in vitro and in vivo. <i>Neurobiology of Disease</i> , 2021, 151, 105256.	4.4	35
48	Prevention of Dopaminergic Neuronal Death by Cyclic AMP in Mixed Neuronal/Glial Mesencephalic Cultures Requires the Repression of Presumptive Astrocytes. <i>Molecular Pharmacology</i> , 2003, 64, 578-586.	2.3	33
49	Atypical parkinsonism in the Caribbean island of Guadeloupe: Etiological role of the mitochondrial complex I inhibitor annonacin. <i>Movement Disorders</i> , 2008, 23, 2122-2128.	3.9	33
50	Heat shock protein 60: an endogenous inducer of dopaminergic cell death in Parkinson disease. <i>Journal of Neuroinflammation</i> , 2014, 11, 86.	7.2	33
51	The noble gas xenon provides protection and trophic stimulation to midbrain dopamine neurons. <i>Journal of Neurochemistry</i> , 2017, 142, 14-28.	3.9	33
52	Proliferation of microglial cells induced by 1-methyl-4-phenylpyridinium in mesencephalic cultures results from an astrocyte-dependent mechanism: role of granulocyte macrophage colony-stimulating factor. <i>Journal of Neurochemistry</i> , 2005, 95, 1069-1077.	3.9	31
53	Morphological and Molecular Characterization of the Response of Differentiated PC12 Cells to Calcium Stress. <i>European Journal of Neuroscience</i> , 1994, 6, 577-586.	2.6	30
54	The relationship between differentiation and survival in PC12 cells treated with cyclic adenosine monophosphate in the presence of epidermal growth factor or nerve growth factor. <i>Neuroscience Letters</i> , 2001, 297, 133-136.	2.1	28

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55	Synergistic Differentiation by Chronic Exposure to Cyclic AMP and Nerve Growth Factor Renders Rat Pheochromocytoma PC12 Cells Totally Dependent upon Trophic Support for Survival. <i>European Journal of Neuroscience</i> , 1995, 7, 251-260.	2.6	27
56	Xenon-mediated neuroprotection in response to sustained, low-level excitotoxic stress. <i>Cell Death Discovery</i> , 2016, 2, 16018.	4.7	27
57	Probenecid potentiates MPTP/MPP ⁺ toxicity by interference with cellular energy metabolism. <i>Journal of Neurochemistry</i> , 2013, 127, 782-792.	3.9	25
58	New 6-Aminoquinoxaline Derivatives with Neuroprotective Effect on Dopaminergic Neurons in Cellular and Animal Parkinson Disease Models. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 6169-6186.	6.4	25
59	Is atypical parkinsonism in the Caribbean caused by the consumption of Annonaceae?. , 2006, , 153-157.		25
60	Sparing of orexin ^A and orexin ^B neurons in the hypothalamus and of orexin fibers in the substantia nigra of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-treated macaques. <i>European Journal of Neuroscience</i> , 2015, 41, 129-136.		24
61	K _{ATP} channel blockade protects midbrain dopamine neurons by repressing a gliac-to- α -neuron signaling cascade that ultimately disrupts mitochondrial calcium homeostasis. <i>Journal of Neurochemistry</i> , 2010, 114, 553-564.	3.9	23
62	A simplified approach for efficient isolation of functional microglial cells: Application for modeling neuroinflammatory responses <i>in vitro</i> . <i>Glia</i> , 2016, 64, 1912-1924.	4.9	23
63	S29434, a Quinone Reductase 2 Inhibitor: Main Biochemical and Cellular Characterization. <i>Molecular Pharmacology</i> , 2019, 95, 269-285.	2.3	21
64	Neuroprotective and neurorestorative potential of xenon. <i>Cell Death and Disease</i> , 2016, 7, e2182-e2182.	6.3	19
65	Experimental evidence for a toxic etiology of tropical parkinsonism. <i>Movement Disorders</i> , 2005, 20, 118-119.	3.9	18
66	Glia Protects Neurons against Extracellular Human Neuromelanin. <i>Neurodegenerative Diseases</i> , 2007, 4, 218-226.	1.4	18
67	Contributive Role of TNF- α to L-DOPA-Induced Dyskinesia in a Unilateral 6-OHDA Lesion Model of Parkinson's Disease. <i>Frontiers in Pharmacology</i> , 2020, 11, 617085.	3.5	18
68	Tyrosine Hydroxylase mRNA Expression by Dopaminergic Neurons in Culture: Effect of 1-Methyl-4-Phenylpyridinium Treatment. <i>Journal of Neurochemistry</i> , 1991, 57, 527-532.	3.9	17
69	Survival factors promote BDNF protein expression in mesencephalic dopaminergic neurons. <i>NeuroReport</i> , 1999, 10, 801-805.	1.2	17
70	Molecular Mechanisms of Neuronal Cell Death: Implications for Nuclear Factors Responding to cAMP and Phorbol Esters. <i>Molecular and Cellular Neurosciences</i> , 2002, 21, 1-14.	2.2	17
71	Neuroprotective effects of a brain permeant 6-aminoquinoxaline derivative in cell culture conditions that model the loss of dopaminergic neurons in Parkinson disease. <i>European Journal of Medicinal Chemistry</i> , 2015, 89, 467-479.	5.5	17
72	Induction of calbindin-D 28K gene and protein expression by physiological stimuli but not in calcium-mediated degeneration in rat PC12 pheochromocytoma cells. <i>FEBS Letters</i> , 1994, 351, 53-57.	2.8	15

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73	The Sleep-Modulating Peptide Orexin-B Protects Midbrain Dopamine Neurons from Degeneration, Alone or in Cooperation with Nicotine. <i>Molecular Pharmacology</i> , 2015, 87, 525-532.	2.3	15
74	Piperazine derivatives as iron chelators: a potential application in neurobiology. <i>BioMetals</i> , 2015, 28, 1043-1061.	4.1	15
75	Human diaphragm atrophy in amyotrophic lateral sclerosis is not predicted by routine respiratory measures. <i>European Respiratory Journal</i> , 2019, 53, 1801749.	6.7	14
76	Doxycycline Interferes With Tau Aggregation and Reduces Its Neuronal Toxicity. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 635760.	3.4	14
77	Methylxanthines and Ryanodine Receptor Channels. <i>Handbook of Experimental Pharmacology</i> , 2011, , 135-150.	1.8	13
78	CMT-3 targets different α -synuclein aggregates mitigating their toxic and inflammogenic effects. <i>Scientific Reports</i> , 2020, 10, 20258.	3.3	13
79	Differential activation of astrocytes and microglia during post-natal development of dopaminergic neuronal death in the weaver mouse. <i>Developmental Brain Research</i> , 2003, 145, 9-17.	1.7	12
80	Acylated and unacylated ghrelin confer neuroprotection to mesencephalic neurons. <i>Neuroscience</i> , 2017, 365, 137-145.	2.3	12
81	Potential environmental neurotoxins related to 1-methyl-4-phenylpyridinium: Selective toxicity of 1-methyl-4-(4-acetamidophenyl)-pyridinium and 1-methyl-4-cyclohexylpyridinium for dopaminergic neurons in culture. <i>Experimental Neurology</i> , 1990, 108, 141-150.	4.1	11
82	Succinobucol, a Non-Statins Hypocholesterolemic Drug, Prevents Premotor Symptoms and Nigrostriatal Neurodegeneration in an Experimental Model of Parkinson's Disease. <i>Molecular Neurobiology</i> , 2017, 54, 1513-1530.	4.0	11
83	3-O-sulfated heparan sulfate interactors target synaptic adhesion molecules from neonatal mouse brain and inhibit neural activity and synaptogenesis in vitro. <i>Scientific Reports</i> , 2020, 10, 19114.	3.3	10
84	The Chemically-Modified Tetracycline COL-3 and Its Parent Compound Doxycycline Prevent Microglial Inflammatory Responses by Reducing Glucose-Mediated Oxidative Stress. <i>Cells</i> , 2021, 10, 2163.	4.1	10
85	Dopaminergic Neurons Reduced to Silence by Oxidative Stress: An Early Step in the Death Cascade in Parkinson's Disease?. <i>Science Signaling</i> , 2006, 2006, pe19-pe19.	3.6	9
86	Neuroprotection of dopamine neurons by xenon against low-level excitotoxic insults is not reproduced by other noble gases. <i>Journal of Neural Transmission</i> , 2020, 127, 27-34.	2.8	8
87	Modelling α -Synuclein Aggregation and Neurodegeneration with Fibril Seeds in Primary Cultures of Mouse Dopaminergic Neurons. <i>Cells</i> , 2022, 11, 1640.	4.1	8
88	Signaling Mechanisms in the Nitric Oxide Donor- and Amphetamine-Induced Dopamine Release in Mesencephalic Primary Cultured Neurons. <i>Neurotoxicity Research</i> , 2016, 29, 92-104.	2.7	6
89	Granulocyte colony-stimulating factor is not protective against selective dopaminergic cell death in vitro. <i>Neuroscience Letters</i> , 2005, 383, 44-48.	2.1	5
90	No relevance to Parkinson's. <i>Nature</i> , 1991, 352, 573-573.	27.8	4

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91	Identification of a Novel 1,4,8-Triazaphenanthrene Derivative as a Neuroprotectant for Dopamine Neurons Vulnerable in Parkinson's Disease. ACS Chemical Neuroscience, 2017, 8, 1222-1231.	3.5	4
92	Selective and Nonselective Protective Effects of Brain-Derived Neurotrophic Factor for Dopaminergic Neurons In Vitro. Journal of Neurochemistry, 1993, 60, 1582-1582.	3.9	3
93	Chapter 12 Selective and non-selective trophic actions on central cholinergic and dopaminergic neurons in vitro. Progress in Brain Research, 1990, 86, 145-155.	1.4	1
94	Atypical Parkinsonism in the French West Indies: The Plant Toxin Annonacin as a Potential Etiological Factor. , 2009, , 1-8.		1
95	Dissociated mesencephalic cultures. , 2008, , 389-408.		0