

Michael P Coleman

List of Publications by Year in descending order

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63
papers

7,784
citations

94433

37
h-index

128289

60
g-index

73
all docs

73
docs citations

73
times ranked

6343
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial dysfunction as a trigger of programmed axon death. Trends in Neurosciences, 2022, 45, 53-63.	8.6	32
2	SARM1 is a multi-functional NAD(P)ase with prominent base exchange activity, all regulated by multiple physiologically relevant NAD metabolites. IScience, 2022, 25, 103812.	4.1	52
3	Imaging Axonal Transport in Ex Vivo Central and Peripheral Nerves. Methods in Molecular Biology, 2022, 2431, 73-93.	0.9	2
4	SARM1 Depletion Slows Axon Degeneration in a CNS Model of Neurotropic Viral Infection. Frontiers in Molecular Neuroscience, 2022, 15, 860410.	2.9	8
5	Tau assemblies do not behave like independently acting prion-like particles in mouse neural tissue. Acta Neuropathologica Communications, 2021, 9, 41.	5.2	15
6	A Novel NAD Signaling Mechanism in Axon Degeneration and its Relationship to Innate Immunity. Frontiers in Molecular Biosciences, 2021, 8, 703532.	3.5	28
7	Lessons from Injury: How Nerve Injury Studies Reveal Basic Biological Mechanisms and Therapeutic Opportunities for Peripheral Nerve Diseases. Neurotherapeutics, 2021, 18, 2200-2221.	4.4	33
8	Enrichment of SARM1 alleles encoding variants with constitutively hyperactive NADase in patients with ALS and other motor nerve disorders. ELife, 2021, 10, .	6.0	44
9	Sarm1 haploinsufficiency or low expression levels after antisense oligonucleotides delay programmed axon degeneration. Cell Reports, 2021, 37, 110108.	6.4	15
10	Neurotoxin-mediated potent activation of the axon degeneration regulator SARM1. ELife, 2021, 10, .	6.0	22
11	Mitochondrial impairment activates the Wallerian pathway through depletion of NMNAT2 leading to SARM1-dependent axon degeneration. Neurobiology of Disease, 2020, 134, 104678.	4.4	87
12	Novel HDAC6 Inhibitors Increase Tubulin Acetylation and Rescue Axonal Transport of Mitochondria in a Model of Charcotâ€Marieâ€Tooth Type 2F. ACS Chemical Neuroscience, 2020, 11, 258-267.	3.5	24
13	Structural basis for RING-Cys-Relay E3 ligase activity and its role in axon integrity. Nature Chemical Biology, 2020, 16, 1227-1236.	8.0	46
14	Loss of highwire Protects Against the Deleterious Effects of Traumatic Brain Injury in Drosophila Melanogaster. Frontiers in Neurology, 2020, 11, 401.	2.4	13
15	Programmed axon degeneration: from mouse to mechanism to medicine. Nature Reviews Neuroscience, 2020, 21, 183-196.	10.2	208
16	Beta secretase 1-dependent amyloid precursor protein processing promotes excessive vascular sprouting through NOTCH3 signalling. Cell Death and Disease, 2020, 11, 98.	6.3	23
17	Axon Degeneration: Which Method to Choose?. Methods in Molecular Biology, 2020, 2143, 3-12.	0.9	0
18	Sarm1 deletion suppresses TDP-43-linked motor neuron degeneration and cortical spine loss. Acta Neuropathologica Communications, 2019, 7, 166.	5.2	60

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19	NAD ⁺ cleavage activity by animal and plant TIR domains in cell death pathways. <i>Science</i> , 2019, 365, 793-799.	12.6	357
20	Severe biallelic loss-of-function mutations in nicotinamide mononucleotide adenylyltransferase 2 (NMNAT2) in two fetuses with fetal akinesia deformation sequence. <i>Experimental Neurology</i> , 2019, 320, 112961.	4.1	46
21	Homozygous NMNAT2 mutation in sisters with polyneuropathy and erythromelalgia. <i>Experimental Neurology</i> , 2019, 320, 112958.	4.1	48
22	Lipopolysaccharide-induced neuroinflammation induces presynaptic disruption through a direct action on brain tissue involving microglia-derived interleukin 1 beta. <i>Journal of Neuroinflammation</i> , 2019, 16, 106.	7.2	108
23	Low levels of NMNAT2 compromise axon development and survival. <i>Human Molecular Genetics</i> , 2019, 28, 448-458.	2.9	44
24	Interaction between a MAPT variant causing frontotemporal dementia and mutant APP affects axonal transport. <i>Neurobiology of Aging</i> , 2018, 68, 68-75.	3.1	17
25	NMN Deamidase Delays Wallerian Degeneration and Rescues Axonal Defects Caused by NMNAT2 Deficiency In Vivo. <i>Current Biology</i> , 2017, 27, 784-794.	3.9	86
26	Sarm1 Deletion, but Not Wld S, Confers Lifelong Rescue in a Mouse Model of Severe Axonopathy. <i>Cell Reports</i> , 2017, 21, 10-16.	6.4	97
27	Application of virtual screening to the discovery of novel nicotinamide phosphoribosyltransferase (NAMPT) inhibitors with potential for the treatment of cancer and axonopathies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 2920-2926.	2.2	13
28	KIF1A mediates axonal transport of BACE1 and identification of independently moving cargoes in living SCG neurons. <i>Traffic</i> , 2016, 17, 1155-1167.	2.7	28
29	Synaptophysin depletion and intraneuronal A β 2 in organotypic hippocampal slice cultures from huAPP transgenic mice. <i>Molecular Neurodegeneration</i> , 2016, 11, 44.	10.8	55
30	Axonal transport declines with age in two distinct phases separated by a period of relative stability. <i>Neurobiology of Aging</i> , 2015, 36, 971-981.	3.1	79
31	Absence of SARM1 Rescues Development and Survival of NMNAT2-Deficient Axons. <i>Cell Reports</i> , 2015, 10, 1974-1981.	6.4	168
32	Identification of Palmitoyltransferase and Thioesterase Enzymes That Control the Subcellular Localization of Axon Survival Factor Nicotinamide Mononucleotide Adenylyltransferase 2 (NMNAT2). <i>Journal of Biological Chemistry</i> , 2014, 289, 32858-32870.	3.4	29
33	Wallerian degeneration: an emerging axon death pathway linking injury and disease. <i>Nature Reviews Neuroscience</i> , 2014, 15, 394-409.	10.2	475
34	Subcellular Localization Determines the Stability and Axon Protective Capacity of Axon Survival Factor Nmnat2. <i>PLoS Biology</i> , 2013, 11, e1001539.	5.6	101
35	Rescue of Peripheral and CNS Axon Defects in Mice Lacking NMNAT2. <i>Journal of Neuroscience</i> , 2013, 33, 13410-13424.	3.6	107
36	Axonal trafficking of NMNAT2 and its roles in axon growth and survival in vivo. <i>Bioarchitecture</i> , 2013, 3, 133-140.	1.5	28

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37	Deletions within its subcellular targeting domain enhance the axon protective capacity of Nmnat2 in vivo. <i>Scientific Reports</i> , 2013, 3, 2567.	3.3	36
38	dSarm/Sarm1 Is Required for Activation of an Injury-Induced Axon Death Pathway. <i>Science</i> , 2012, 337, 481-484.	12.6	558
39	Age-dependent axonal transport and locomotor changes and tau hypophosphorylation in a τ^{P301L} knockin mouse. <i>Neurobiology of Aging</i> , 2012, 33, 621.e1-621.e15.	3.1	75
40	Mitochondria as a central sensor for axonal degenerative stimuli. <i>Trends in Neurosciences</i> , 2012, 35, 364-372.	8.6	181
41	Simultaneous Single-Sample Determination of NMNAT Isozyme Activities in Mouse Tissues. <i>PLoS ONE</i> , 2012, 7, e53271.	2.5	36
42	Reducing expression of NAD ⁺ synthesizing enzyme NMNAT1 does not affect the rate of Wallerian degeneration. <i>FEBS Journal</i> , 2011, 278, 2666-2679.	4.7	71
43	Difference Tracker: ImageJ plugins for fully automated analysis of multiple axonal transport parameters. <i>Journal of Neuroscience Methods</i> , 2010, 193, 281-287.	2.5	65
44	Targeting NMNAT1 to Axons and Synapses Transforms Its Neuroprotective Potency <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2010, 30, 13291-13304.	3.6	108
45	Endogenous Nmnat2 Is an Essential Survival Factor for Maintenance of Healthy Axons. <i>PLoS Biology</i> , 2010, 8, e1000300.	5.6	403
46	Mechanisms of Axonal Spheroid Formation in Central Nervous System Wallerian Degeneration. <i>Journal of Neuropathology and Experimental Neurology</i> , 2010, 69, 455-472.	1.7	90
47	Wallerian Degeneration, Wld ^S , and Nmnat. <i>Annual Review of Neuroscience</i> , 2010, 33, 245-267.	10.7	415
48	WldS protein requires Nmnat activity and a short N-terminal sequence to protect axons in mice. <i>Journal of Cell Biology</i> , 2009, 184, 491-500.	5.2	100
49	Severely dystrophic axons at amyloid plaques remain continuous and connected to viable cell bodies. <i>Brain</i> , 2009, 132, 402-416.	7.6	147
50	The <i>Wld^S</i> gene delays axonal but not somatic degeneration in a rat glaucoma model. <i>European Journal of Neuroscience</i> , 2008, 28, 1166-1179.	2.6	128
51	Axon degeneration mechanisms: commonality amid diversity. <i>Nature Reviews Neuroscience</i> , 2005, 6, 889-898.	10.2	718
52	A rat model of slow Wallerian degeneration (WldS) with improved preservation of neuromuscular synapses. <i>European Journal of Neuroscience</i> , 2005, 21, 271-277.	2.6	81
53	The progressive nature of Wallerian degeneration in wild-type and slow Wallerian degeneration (WldS) nerves. <i>BMC Neuroscience</i> , 2005, 6, 6.	1.9	235
54	The WldS gene modestly prolongs survival in the SOD1G93A fALS mouse. <i>Neurobiology of Disease</i> , 2005, 19, 293-300.	4.4	104

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55	The slow Wallerian degeneration gene, <i>WldS</i> , inhibits axonal spheroid pathology in gracile axonal dystrophy mice. <i>Brain</i> , 2004, 128, 405-416.	7.6	101
56	Quantitative and qualitative analysis of Wallerian degeneration using restricted axonal labelling in YFP-H mice. <i>Journal of Neuroscience Methods</i> , 2004, 134, 23-35.	2.5	99
57	Inhibiting Axon Degeneration and Synapse Loss Attenuates Apoptosis and Disease Progression in a Mouse Model of Motoneuron Disease. <i>Current Biology</i> , 2003, 13, 669-673.	3.9	208
58	The <i>WldS</i> Mutation Delays Robust Loss of Motor and Sensory Axons in a Genetic Model for Myelin-Related Axonopathy. <i>Journal of Neuroscience</i> , 2003, 23, 2833-2839.	3.6	145
59	Axon pathology in neurological disease: a neglected therapeutic target. <i>Trends in Neurosciences</i> , 2002, 25, 532-537.	8.6	361
60	Wallerian degeneration of injured axons and synapses is delayed by a <i>Ube4b/Nmnat</i> chimeric gene. <i>Nature Neuroscience</i> , 2001, 4, 1199-1206.	14.8	661
61	<i>Sarm1</i> Haploinsufficiency and Low Expression Levels after Antisense Oligonucleotides Delays Programmed Axon Degeneration. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
62	Alzheimer's Disease: Etiology, Neuropathology and Pathogenesis. , 0, , 1-22.		22
63	Cultured dissociated primary dorsal root ganglion neurons from adult horses enable study of axonal transport. <i>Journal of Anatomy</i> , 0, , .	1.5	4