Michael P Mcdonald

List of Publications by Year
in descending order

64 papers	5,359 citations	108046 37 h-index	139680 61 g-index
65 all docs	65 docs citations	65 times ranked	6889 citing authors

#	Article	IF	Citations
1	Direct AT2R Stimulation Slows Post-stroke Cognitive Decline in the 5XFAD Alzheimerâ€™s Disease Mice. Molecular Neurobiology, 2022, 59, 4124-4140.	1.9	10
2	DNA Double-Strand Break Accumulation in Alzheimerâ€™s Disease: Evidence from Experimental Models and Postmortem Human Brains. Molecular Neurobiology, 2021, 58, 118-131.	1.9	47
3	Alterations in the Gut-Microbial-Inflammasome-Brain Axis in a Mouse Model of Alzheimerâ€™s Disease. Cells, 2021, 10, 779.	1.8	46
4	Thioredoxin interacting protein regulates age-associated neuroinflammation. Neurobiology of Disease, 2021, 156, 105399.	2.1	15
5	ER stress associated TXNIP-NLRP3 inflammasome activation in hippocampus of human Alzheimer's disease. Neurochemistry International, 2021, 148, 105104.	1.9	33
6	Thioredoxin-Interacting Protein (TXNIP) Associated NLRP3 Inflammasome Activation in Human Alzheimerâ€™s Disease Brain. Journal of Alzheimer's Disease, 2019, 68, 255-265.	1.2	77
7	Lentiviral-mediated knock-down of GD3 synthase protects against MPTP-induced motor deficits and neurodegeneration. Neuroscience Letters, 2019, 692, 53-63.	1.0	6
8	In utero exposure to fine particulate matter results in an altered neuroimmune phenotype in adult mice. Environmental Pollution, 2018, 241, 279-288.	3.7	38
9	Targeted deletion of <scp>GD3</scp> synthase protects against <scp>MPTP</scp>â€induced neurodegeneration. Genes, Brain and Behavior, 2017, 16, 522-536.	1.1	17
10	Hsp90 inhibitor induces nuclear translocation of HSF1 predominantly in hippocampal CA1 region. Molecular Psychiatry, 2017, 22, 935-935.	4.1	0
11	A CNS-permeable Hsp90 inhibitor rescues synaptic dysfunction and memory loss in APP-overexpressing Alzheimerâ€™s mouse model via an HSF1-mediated mechanism. Molecular Psychiatry, 2017, 22, 990-1001.	4.1	40
12	MPTP-induced executive dysfunction is associated with altered prefrontal serotonergic function. Behavioural Brain Research, 2016, 298, 192-201.	1.2	18
13	Partial eNOS deficiency causes spontaneous thrombotic cerebral infarction, amyloid angiopathy and cognitive impairment. Molecular Neurodegeneration, 2015, 10, 24.	4.4	86
14	Methods and Models of the Nonmotor Symptoms of Parkinson Disease. , 2015, , 387-412.		1
15	Merging advanced technologies with classical methods to uncover dendritic spine dynamics: A hot spot of synaptic plasticity. Neuroscience Research, 2015, 96, 1-13.	1.0	12
16	Differential proteomic and behavioral effects of long-term voluntary exercise in wild-type and APP-overexpressing transgenics. Neurobiology of Disease, 2015, 78, 45-55.	2.1	28
17	Abnormal vibrissaâ€related behavior and loss of barrel field inhibitory neurons in <scp>5xFAD</scp> transgenics. Genes, Brain and Behavior, 2014, 13, 488-500.	1.1	72
18	A single intramuscular injection of <scp>rAAV</scp>â€mediated mutant erythropoietin protects against <scp>MPTP</scp>â€induced parkinsonism. Genes, Brain and Behavior, 2013, 12, 224-233.	1.1	21

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19	Brain Gangliosides of a Transgenic Mouse Model of Alzheimer's Disease with Deficiency in GD3-Synthase: Expression of Elevated Levels of a Cholinergic-Specific Ganglioside, GT1aÎ±. ASN Neuro, 2013, 5, AN20130006.	1.5	26
20	Intracranial V. cholerae Sialidase Protects against Excitotoxic Neurodegeneration. PLoS ONE, 2011, 6, e29285.	1.1	19
21	Ganglioside Metabolism in a Transgenic Mouse Model of Alzheimer's Disease: Expression of Chol-1Î± Antigens in the Brain. ASN Neuro, 2010, 2, AN20100021.	1.5	42
22	Vitamin C deficiency increases basal exploratory activity but decreases scopolamine-induced activity in APP/PSEN1 transgenic mice. Pharmacology Biochemistry and Behavior, 2010, 94, 543-552.	1.3	28
23	Antioxidants and cognitive training interact to affect oxidative stress and memory in APP/PSEN1 mice. Nutritional Neuroscience, 2009, 12, 203-218.	1.5	67
24	Vitamin C reduces spatial learning deficits in middle-aged and very old APP/PSEN1 transgenic and wild-type mice. Pharmacology Biochemistry and Behavior, 2009, 93, 443-450.	1.3	76
25	Endogenous anxiety and stress responses in water maze and Barnes maze spatial memory tasks. Behavioural Brain Research, 2009, 198, 247-251.	1.2	308
26	Elimination of GD3 synthase improves memory and reduces amyloid-Î² plaque load in transgenic mice. Neurobiology of Aging, 2009, 30, 1777-1791.	1.5	118
27	Elevated oxidative stress and sensorimotor deficits but normal cognition in mice that cannot synthesize ascorbic acid. Journal of Neurochemistry, 2008, 106, 1198-1208.	2.1	83
28	Retinoic Acid Attenuates Î²-Amyloid Deposition and Rescues Memory Deficits in an Alzheimer's Disease Transgenic Mouse Model. Journal of Neuroscience, 2008, 28, 11622-11634.	1.7	236
29	Thematic Review Series: Sphingolipids. Role of ganglioside metabolism in the pathogenesis of Alzheimer's diseaseâ€"a review. Journal of Lipid Research, 2008, 49, 1157-1175.	2.0	288
30	Impaired spatial memory in APP-overexpressing mice on a homocysteinemia-inducing diet. Neurobiology of Aging, 2007, 28, 1195-1205.	1.5	54
31	Impaired spatial learning in the APPSweï¿½+ï¿½PSEN1?E9 bigenic mouse model of Alzheimer?s disease. Genes, Brain and Behavior, 2007, 6, 54-65.	1.1	272
32	Deficits in acetylcholine homeostasis, receptors and behaviors in choline transporter heterozygous mice. Genes, Brain and Behavior, 2007, 6, 411-424.	1.1	44
33	Norepinephrine transporter-deficient mice respond to anxiety producing and fearful environments with bradycardia and hypotension. Neuroscience, 2006, 139, 931-946.	1.1	23
34	Transgenic mice expressing a human mutant beta1 thyroid receptor are hyperactive, impulsive, and inattentive. Genes, Brain and Behavior, 2006, 5, 282-297.	1.1	73
35	Spatial and nonspatial escape strategies in the Barnes maze. Learning and Memory, 2006, 13, 809-819.	0.5	175
36	Hyperactivity, impaired learning on a vigilance task, and a differential response to methylphenidate in the TRÎ²PV knock-in mouse. Psychopharmacology, 2005, 181, 653-663.	1.5	51

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37	4-Caffeoyl-1,5-quinide in roasted coffee inhibits [3H]naloxone binding and reverses anti-nociceptive effects of morphine in mice. Psychopharmacology, 2004, 176, 146-153.	1.5	29
38	Dicinnamoylquinides in roasted coffee inhibit the human adenosine transporter. European Journal of Pharmacology, 2002, 442, 215-223.	1.7	61
39	The Kâ€“Cl cotransporter KCC3 is mutant in a severe peripheral neuropathy associated with agenesis of the corpus callosum. Nature Genetics, 2002, 32, 384-392.	9.4	246
40	Motor deficits in fibroblast growth factor receptor-3 null mutant mice. Behavioural Pharmacology, 2001, 12, 477-486.	0.8	13
41	Abnormal GABA_AReceptor-Mediated Currents in Dorsal Root Ganglion Neurons Isolated from Naâ€“Kâ€“2Cl Cotransporter Null Mice. Journal of Neuroscience, 2000, 20, 7531-7538.	1.7	312
42	Expression of the Mutant Thyroid Hormone Receptor PV in the Pituitary of Transgenic Mice Leads to Weight Reduction. Thyroid, 1999, 9, 1137-1145.	2.4	13
43	Chapter 3.1.9 Behavioral analysis of Dvl1-deficient mice reveals a role for the Dvl1 gene in social behaviors and sensorimotor gating. Handbook of Behavioral Neuroscience, 1999, , 352-363.	0.0	0
44	A genetic model of substrate deprivation therapy for a glycosphingolipid storage disorder. Journal of Clinical Investigation, 1999, 103, 497-505.	3.9	153
45	Galanin Inhibits Performance on Rodent Memory Tasks. Annals of the New York Academy of Sciences, 1998, 863, 305-322.	1.8	67
46	Biochemical and Morphometric Analyses Show that Myelination in the Insulin-like Growth Factor 1 Null Brain Is Proportionate to Its Neuronal Composition. Journal of Neuroscience, 1998, 18, 5673-5681.	1.7	98
47	Coadministration of Galanin Antagonist M40 with a Muscarinic M1Agonist Improves Delayed Nonmatching to Position Choice Accuracy in Rats with Cholinergic Lesions. Journal of Neuroscience, 1998, 18, 5078-5085.	1.7	64
48	Bone marrow transplantation prolongs life span and ameliorates neurologic manifestations in Sandhoff disease mice.. Journal of Clinical Investigation, 1998, 101, 1881-1888.	3.9	142
49	Hyperactivity and learning deficits in transgenic mice bearing a human mutant thyroid hormone beta1 receptor gene. Learning and Memory, 1998, 5, 289-301.	0.5	29
50	Hyperactivity and Learning Deficits in Transgenic Mice Bearing a Human Mutant Thyroid Hormone Î²1 Receptor Gene. Learning and Memory, 1998, 5, 289-301.	0.5	66
51	Mouse model of GM2 activator deficiency manifests cerebellar pathology and motor impairment. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 8138-8143.	3.3	101
52	Analysis of galanin and the galanin antagonist M40 on delayed non-matching-to-position performance in rats lesioned with the cholinergic immunotoxin â€“2â€“9Â²IgG-Saporin.. Behavioral Neuroscience, 1997, 111, 552-563.	0.6	36
53	Intrahippocampal Injections of Exogenous Î²-Amyloid Induce Postdelay Errors in an Eight-Arm Radial Maze. Neurobiology of Learning and Memory, 1997, 68, 97-101.	1.0	51
54	Social Interaction and Sensorimotor Gating Abnormalities in Mice Lacking Dvl1. Cell, 1997, 90, 895-905.	13.5	440

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55	Present Imperfect: A Critical Review of Animal Models of the Mnemonic Impairments in Alzheimer's Disease. Neuroscience and Biobehavioral Reviews, 1997, 22, 99-120.	2.9	73
56	Galanin-acetylcholine interactions in rodent memory tasks and Alzheimer's disease. Journal of Psychiatry and Neuroscience, 1997, 22, 303-17.	1.4	25
57	Analysis of galanin and the galanin antagonist M40 on delayed non-matching-to-position performance in rats lesioned with the cholinergic immunotoxin 192 IgG-saporin. Behavioral Neuroscience, 1997, 111, 552-63.	0.6	11
58	Reversal of Î²-Amyloid-Induced Retention Deficit after Exposure to Training and State Cues. Neurobiology of Learning and Memory, 1996, 65, 35-47.	1.0	25
59	DISCRIMINATION OF METHADONE AND COCAINE BY PIGEONS WITHOUT EXPLICIT DISCRIMINATION TRAINING. Journal of the Experimental Analysis of Behavior, 1996, 66, 193-203.	0.8	5
60	Galanin receptor antagonist M40 blocks galanin-induced choice accuracy deficits on a delayed-nonmatching-to-position task.. Behavioral Neuroscience, 1996, 110, 1025-1032.	0.6	49
61	Mice lacking both subunits of lysosomal Î²â€“hexosaminidase display gangliosidosis and mucopolysaccharidosis. Nature Genetics, 1996, 14, 348-352.	9.4	194
62	Galanin receptor antagonist M40 blocks galanin-induced choice accuracy deficits on a delayed-nonmatching-to-position task. Behavioral Neuroscience, 1996, 110, 1025-32.	0.6	20
63	Mouse models of Tayâ€“Sachs and Sandhoff diseases differ in neurologic phenotype and ganglioside metabolism. Nature Genetics, 1995, 11, 170-176.	9.4	411
64	Effects of an exogenous Î²-amyloid peptide on retention for spatial learning. Behavioral and Neural Biology, 1994, 62, 60-67.	2.3	75