

Michael P Mcdonald

List of Publications by Year in descending order

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64
papers

5,359
citations

94433

37
h-index

123424

61
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65
all docs

65
docs citations

65
times ranked

6266
citing authors

#	ARTICLE	IF	CITATIONS
1	Social Interaction and Sensorimotor Gating Abnormalities in Mice Lacking Dvl1. <i>Cell</i> , 1997, 90, 895-905.	28.9	440
2	Mouse models of Tayâ€“Sachs and Sandhoff diseases differ in neurologic phenotype and ganglioside metabolism. <i>Nature Genetics</i> , 1995, 11, 170-176.	21.4	411
3	Abnormal GABA_A Receptor-Mediated Currents in Dorsal Root Ganglion Neurons Isolated from Naâ€“Kâ€“2Cl Cotransporter Null Mice. <i>Journal of Neuroscience</i> , 2000, 20, 7531-7538.	3.6	312
4	Endogenous anxiety and stress responses in water maze and Barnes maze spatial memory tasks. <i>Behavioural Brain Research</i> , 2009, 198, 247-251.	2.2	308
5	Thematic Review Series: Sphingolipids. Role of ganglioside metabolism in the pathogenesis of Alzheimer's diseaseâ€“a review. <i>Journal of Lipid Research</i> , 2008, 49, 1157-1175.	4.2	288
6	Impaired spatial learning in the APPSwe $\frac{1}{2}$ + $\frac{1}{2}$ PSEN1 $\frac{1}{2}$ E9 bigenic mouse model of Alzheimer's disease. <i>Genes, Brain and Behavior</i> , 2007, 6, 54-65.	2.2	272
7	The Kâ€“Cl cotransporter KCC3 is mutant in a severe peripheral neuropathy associated with agenesis of the corpus callosum. <i>Nature Genetics</i> , 2002, 32, 384-392.	21.4	246
8	Retinoic Acid Attenuates β -Amyloid Deposition and Rescues Memory Deficits in an Alzheimer's Disease Transgenic Mouse Model. <i>Journal of Neuroscience</i> , 2008, 28, 11622-11634.	3.6	236
9	Mice lacking both subunits of lysosomal β -hexosaminidase display gangliosidosis and mucopolysaccharidosis. <i>Nature Genetics</i> , 1996, 14, 348-352.	21.4	194
10	Spatial and nonspatial escape strategies in the Barnes maze. <i>Learning and Memory</i> , 2006, 13, 809-819.	1.3	175
11	A genetic model of substrate deprivation therapy for a glycosphingolipid storage disorder. <i>Journal of Clinical Investigation</i> , 1999, 103, 497-505.	8.2	153
12	Bone marrow transplantation prolongs life span and ameliorates neurologic manifestations in Sandhoff disease mice.. <i>Journal of Clinical Investigation</i> , 1998, 101, 1881-1888.	8.2	142
13	Elimination of GD3 synthase improves memory and reduces amyloid- β plaque load in transgenic mice. <i>Neurobiology of Aging</i> , 2009, 30, 1777-1791.	3.1	118
14	Mouse model of GM2 activator deficiency manifests cerebellar pathology and motor impairment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 8138-8143.	7.1	101
15	Biochemical and Morphometric Analyses Show that Myelination in the Insulin-like Growth Factor 1 Null Brain Is Proportionate to Its Neuronal Composition. <i>Journal of Neuroscience</i> , 1998, 18, 5673-5681.	3.6	98
16	Partial eNOS deficiency causes spontaneous thrombotic cerebral infarction, amyloid angiopathy and cognitive impairment. <i>Molecular Neurodegeneration</i> , 2015, 10, 24.	10.8	86
17	Elevated oxidative stress and sensorimotor deficits but normal cognition in mice that cannot synthesize ascorbic acid. <i>Journal of Neurochemistry</i> , 2008, 106, 1198-1208.	3.9	83
18	Thioredoxin-Interacting Protein (TXNIP) Associated NLRP3 Inflammasome Activation in Human Alzheimer's Disease Brain. <i>Journal of Alzheimer's Disease</i> , 2019, 68, 255-265.	2.6	77

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19	Vitamin C reduces spatial learning deficits in middle-aged and very old APP/PSEN1 transgenic and wild-type mice. <i>Pharmacology Biochemistry and Behavior</i> , 2009, 93, 443-450.	2.9	76
20	Effects of an exogenous β -amyloid peptide on retention for spatial learning. <i>Behavioral and Neural Biology</i> , 1994, 62, 60-67.	2.2	75
21	Present Imperfect: A Critical Review of Animal Models of the Mnemonic Impairments in Alzheimer's Disease. <i>Neuroscience and Biobehavioral Reviews</i> , 1997, 22, 99-120.	6.1	73
22	Transgenic mice expressing a human mutant beta1 thyroid receptor are hyperactive, impulsive, and inattentive. <i>Genes, Brain and Behavior</i> , 2006, 5, 282-297.	2.2	73
23	Abnormal vibrissa-related behavior and loss of barrel field inhibitory neurons in 5xFAD transgenics. <i>Genes, Brain and Behavior</i> , 2014, 13, 488-500.	2.2	72
24	Galanin Inhibits Performance on Rodent Memory Tasks. <i>Annals of the New York Academy of Sciences</i> , 1998, 863, 305-322.	3.8	67
25	Antioxidants and cognitive training interact to affect oxidative stress and memory in APP/PSEN1 mice. <i>Nutritional Neuroscience</i> , 2009, 12, 203-218.	3.1	67
26	Hyperactivity and Learning Deficits in Transgenic Mice Bearing a Human Mutant Thyroid Hormone β 1 Receptor Gene. <i>Learning and Memory</i> , 1998, 5, 289-301.	1.3	66
27	Coadministration of Galanin Antagonist M40 with a Muscarinic M1 Agonist Improves Delayed Nonmatching to Position Choice Accuracy in Rats with Cholinergic Lesions. <i>Journal of Neuroscience</i> , 1998, 18, 5078-5085.	3.6	64
28	Dicinnamoylquinides in roasted coffee inhibit the human adenosine transporter. <i>European Journal of Pharmacology</i> , 2002, 442, 215-223.	3.5	61
29	Impaired spatial memory in APP-overexpressing mice on a homocysteinemia-inducing diet. <i>Neurobiology of Aging</i> , 2007, 28, 1195-1205.	3.1	54
30	Intrahippocampal Injections of Exogenous β -Amyloid Induce Postdelay Errors in an Eight-Arm Radial Maze. <i>Neurobiology of Learning and Memory</i> , 1997, 68, 97-101.	1.9	51
31	Hyperactivity, impaired learning on a vigilance task, and a differential response to methylphenidate in the TR12PV knock-in mouse. <i>Psychopharmacology</i> , 2005, 181, 653-663.	3.1	51
32	Galanin receptor antagonist M40 blocks galanin-induced choice accuracy deficits on a delayed-nonmatching-to-position task. <i>Behavioral Neuroscience</i> , 1996, 110, 1025-1032.	1.2	49
33	DNA Double-Strand Break Accumulation in Alzheimer's Disease: Evidence from Experimental Models and Postmortem Human Brains. <i>Molecular Neurobiology</i> , 2021, 58, 118-131.	4.0	47
34	Alterations in the Gut-Microbial-Inflammasome-Brain Axis in a Mouse Model of Alzheimer's Disease. <i>Cells</i> , 2021, 10, 779.	4.1	46
35	Deficits in acetylcholine homeostasis, receptors and behaviors in choline transporter heterozygous mice. <i>Genes, Brain and Behavior</i> , 2007, 6, 411-424.	2.2	44
36	Ganglioside Metabolism in a Transgenic Mouse Model of Alzheimer's Disease: Expression of Chol-1 Antigens in the Brain. <i>ASN Neuro</i> , 2010, 2, AN20100021.	2.7	42

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37	A CNS-permeable Hsp90 inhibitor rescues synaptic dysfunction and memory loss in APP-overexpressing Alzheimer's mouse model via an HSF1-mediated mechanism. <i>Molecular Psychiatry</i> , 2017, 22, 990-1001.	7.9	40
38	In utero exposure to fine particulate matter results in an altered neuroimmune phenotype in adult mice. <i>Environmental Pollution</i> , 2018, 241, 279-288.	7.5	38
39	Analysis of galanin and the galanin antagonist M40 on delayed non-matching-to-position performance in rats lesioned with the cholinergic immunotoxin α -Bungarotoxin-IgG-Saporin. <i>Behavioral Neuroscience</i> , 1997, 111, 552-563.	1.2	36
40	ER stress associated TXNIP-NLRP3 inflammasome activation in hippocampus of human Alzheimer's disease. <i>Neurochemistry International</i> , 2021, 148, 105104.	3.8	33
41	4-Caffeoyl-1,5-quinide in roasted coffee inhibits [3 H]naloxone binding and reverses anti-nociceptive effects of morphine in mice. <i>Psychopharmacology</i> , 2004, 176, 146-153.	3.1	29
42	Hyperactivity and learning deficits in transgenic mice bearing a human mutant thyroid hormone beta1 receptor gene. <i>Learning and Memory</i> , 1998, 5, 289-301.	1.3	29
43	Vitamin C deficiency increases basal exploratory activity but decreases scopolamine-induced activity in APP/PSEN1 transgenic mice. <i>Pharmacology Biochemistry and Behavior</i> , 2010, 94, 543-552.	2.9	28
44	Differential proteomic and behavioral effects of long-term voluntary exercise in wild-type and APP-overexpressing transgenics. <i>Neurobiology of Disease</i> , 2015, 78, 45-55.	4.4	28
45	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, GT1a. <i>ASN Neuro</i> , 2013, 5, AN20130006.	2.7	26
46	Reversal of β -Amyloid-Induced Retention Deficit after Exposure to Training and State Cues. <i>Neurobiology of Learning and Memory</i> , 1996, 65, 35-47.	1.9	25
47	Galanin-acetylcholine interactions in rodent memory tasks and Alzheimer's disease. <i>Journal of Psychiatry and Neuroscience</i> , 1997, 22, 303-17.	2.4	25
48	Norepinephrine transporter-deficient mice respond to anxiety producing and fearful environments with bradycardia and hypotension. <i>Neuroscience</i> , 2006, 139, 931-946.	2.3	23
49	A single intramuscular injection of α -syn-mediated mutant erythropoietin protects against MPTP-induced parkinsonism. <i>Genes, Brain and Behavior</i> , 2013, 12, 224-233.	2.2	21
50	Galanin receptor antagonist M40 blocks galanin-induced choice accuracy deficits on a delayed-nonmatching-to-position task. <i>Behavioral Neuroscience</i> , 1996, 110, 1025-1032.	1.2	20
51	Intracranial <i>V. cholerae</i> Sialidase Protects against Excitotoxic Neurodegeneration. <i>PLoS ONE</i> , 2011, 6, e29285.	2.5	19
52	MPTP-induced executive dysfunction is associated with altered prefrontal serotonergic function. <i>Behavioural Brain Research</i> , 2016, 298, 192-201.	2.2	18
53	Targeted deletion of GD3 synthase protects against MPTP-induced neurodegeneration. <i>Genes, Brain and Behavior</i> , 2017, 16, 522-536.	2.2	17
54	Thioredoxin interacting protein regulates age-associated neuroinflammation. <i>Neurobiology of Disease</i> , 2021, 156, 105399.	4.4	15

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55	Expression of the Mutant Thyroid Hormone Receptor PV in the Pituitary of Transgenic Mice Leads to Weight Reduction. <i>Thyroid</i> , 1999, 9, 1137-1145.	4.5	13
56	Motor deficits in fibroblast growth factor receptor-3 null mutant mice. <i>Behavioural Pharmacology</i> , 2001, 12, 477-486.	1.7	13
57	Merging advanced technologies with classical methods to uncover dendritic spine dynamics: A hot spot of synaptic plasticity. <i>Neuroscience Research</i> , 2015, 96, 1-13.	1.9	12
58	Analysis of galanin and the galanin antagonist M40 on delayed non-matching-to-position performance in rats lesioned with the cholinergic immunotoxin -2-9Å²IgG-Saporin.. <i>Behavioral Neuroscience</i> , 1997, 111, 552-563.	1.2	11
59	Direct AT2R Stimulation Slows Post-stroke Cognitive Decline in the 5XFAD Alzheimerâ€™s Disease Mice. <i>Molecular Neurobiology</i> , 2022, 59, 4124-4140.	4.0	10
60	Lentiviral-mediated knock-down of GD3 synthase protects against MPTP-induced motor deficits and neurodegeneration. <i>Neuroscience Letters</i> , 2019, 692, 53-63.	2.1	6
61	DISCRIMINATION OF METHADONE AND COCAINE BY PIGEONS WITHOUT EXPLICIT DISCRIMINATION TRAINING. <i>Journal of the Experimental Analysis of Behavior</i> , 1996, 66, 193-203.	1.1	5
62	Methods and Models of the Nonmotor Symptoms of Parkinson Disease. , 2015, , 387-412.		1
63	Chapter 3.1.9 Behavioral analysis of Dvl1-deficient mice reveals a role for the Dvl1 gene in social behaviors and sensorimotor gating. <i>Handbook of Behavioral Neuroscience</i> , 1999, , 352-363.	0.0	0
64	Hsp90 inhibitor induces nuclear translocation of HSF1 predominantly in hippocampal CA1 region. <i>Molecular Psychiatry</i> , 2017, 22, 935-935.	7.9	0