

# Robert F Berman

## List of Publications by Year in descending order

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113  
papers

5,842  
citations

38660

50  
h-index

88477

70  
g-index

116  
all docs

116  
docs citations

116  
times ranked

5144  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of prenatal alcohol exposure on the hippocampus: Spatial behavior, electrophysiology, and neuroanatomy. <i>Hippocampus</i> , 2000, 10, 94-110.	0.9	315
2	Comparison of Behavioral Deficits and Acute Neuronal Degeneration in Rat Lateral Fluid Percussion and Weight-Drop Brain Injury Models. <i>Journal of Neurotrauma</i> , 2004, 21, 521-539.	1.7	164
3	Early loss of astrocytes after experimental traumatic brain injury. <i>Glia</i> , 2003, 44, 140-152.	2.5	143
4	Murine hippocampal neurons expressing Fmr1 gene premutations show early developmental deficits and late degeneration. <i>Human Molecular Genetics</i> , 2010, 19, 196-208.	1.4	143
5	Anticonvulsant effects of adenosine analogues on amygdaloid-kindled seizures in rats. <i>Neuroscience Letters</i> , 1984, 46, 317-322.	1.0	126
6	Long-lived epigenetic interactions between perinatal PBDE exposure and Mecp2308 mutation. <i>Human Molecular Genetics</i> , 2012, 21, 2399-2411.	1.4	104
7	Disruption of MAP-2 Immunostaining in Rat Hippocampus After Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 1998, 15, 349-363.	1.7	102
8	Widespread non-central nervous system organ pathology in fragile X premutation carriers with fragile X-associated tremor/ataxia syndrome and CGG knock-in mice. <i>Acta Neuropathologica</i> , 2011, 122, 467-479.	3.9	102
9	Anticonvulsant and Antinociceptive Actions of Novel Adenosine Kinase Inhibitors. <i>Current Topics in Medicinal Chemistry</i> , 2005, 5, 43-58.	1.0	100
10	CGG repeat length and neuropathological and molecular correlates in a mouse model for fragile X-associated tremor/ataxia syndrome. <i>Journal of Neurochemistry</i> , 2008, 107, 1671-1682.	2.1	100
11	Central anticonvulsant effects of magnesium sulfate on N-methyl-D-aspartate-induced seizures. <i>American Journal of Obstetrics and Gynecology</i> , 1993, 168, 974-978.	0.7	99
12	Evidence for increased dorsal hippocampal adenosine release and metabolism during pharmacologically induced seizures in rats. <i>Brain Research</i> , 2000, 872, 44-53.	1.1	98
13	An NMR metabolomic investigation of early metabolic disturbances following traumatic brain injury in a mammalian model. <i>NMR in Biomedicine</i> , 2005, 18, 507-516.	1.6	94
14	NAAG peptidase inhibitor increases dialysate NAAG and reduces glutamate, aspartate and GABA levels in the dorsal hippocampus following fluid percussion injury in the rat. <i>Journal of Neurochemistry</i> , 2006, 97, 1015-1025.	2.1	92
15	Medial Septal Nucleus Theta Frequency Deep Brain Stimulation Improves Spatial Working Memory after Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2013, 30, 131-139.	1.7	92
16	Peripheral magnesium sulfate enters the brain and increases the threshold for hippocampal seizures in rats. <i>American Journal of Obstetrics and Gynecology</i> , 1992, 167, 1605-1610.	0.7	91
17	Maternal immune activation leads to activated inflammatory macrophages in offspring. <i>Brain, Behavior, and Immunity</i> , 2014, 38, 220-226.	2.0	89
18	Environmental enrichment and the behavioral effects of prenatal exposure to alcohol in rats. <i>Neurotoxicology and Teratology</i> , 1993, 15, 261-266.	1.2	88

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19	Cell death and long-term maintenance of neuron-like state after differentiation of rat bone marrow stromal cells: a comparison of protocols. <i>Brain Research</i> , 2003, 991, 46-55.	1.1	84
20	Prenatal alcohol exposure and the effects of environmental enrichment on hippocampal dendritic spine density. <i>Alcohol</i> , 1996, 13, 209-216.	0.8	82
21	Principles and Practices of Neurodevelopmental Assessment in Children: Lessons Learned from the Centers for Children's Environmental Health and Disease Prevention Research. <i>Environmental Health Perspectives</i> , 2005, 113, 1437-1446.	2.8	82
22	Further characterizations of the nature of the behavioral and neurochemical effects of lesions to the nucleus basalis of meynert in the rat. <i>Neurobiology of Aging</i> , 1985, 6, 125-130.	1.5	80
23	FMRpolyG-positive inclusions in CNS and non-CNS organs of a fragile X premutation carrier with fragile X-associated tremor/ataxia syndrome. <i>Acta Neuropathologica Communications</i> , 2014, 2, 162.	2.4	78
24	Developmental social communication deficits in the <i>Shank3</i> rat model of phelanâ€mdermid syndrome and autism spectrum disorder. <i>Autism Research</i> , 2018, 11, 587-601.	2.1	78
25	Methylmercury elicits rapid inhibition of cell proliferation in the developing brain and decreases cell cycle regulator, cyclin E. <i>NeuroToxicology</i> , 2006, 27, 970-981.	1.4	75
26	Complex, multimodal behavioral profile of theHomer1knockout mouse. <i>Genes, Brain and Behavior</i> , 2007, 6, 141-154.	1.1	73
27	Progressive spatial processing deficits in a mouse model of the fragile X premutation.. <i>Behavioral Neuroscience</i> , 2009, 123, 1315-1324.	0.6	71
28	Early mitochondrial abnormalities in hippocampal neurons cultured from <i>Fmr1</i> preâ€mmutation mouse model. <i>Journal of Neurochemistry</i> , 2012, 123, 613-621.	2.1	70
29	Bioaccumulation and behavioral effects of 2,2â€²,4,4â€²-tetrabromodiphenyl ether (BDE-47) in perinatally exposed mice. <i>Neurotoxicology and Teratology</i> , 2011, 33, 393-404.	1.2	69
30	Premutation CGG-repeat expansion of the <i>Fmr1</i> gene impairs mouse neocortical development. <i>Human Molecular Genetics</i> , 2011, 20, 64-79.	1.4	67
31	Protein Delivery of an Artificial Transcription Factor Restores Widespread Ube3a Expression in an Angelman Syndrome Mouse Brain. <i>Molecular Therapy</i> , 2016, 24, 548-555.	3.7	67
32	CNS expression of murine fragile X protein (FMRP) as a function of CGG-repeat size. <i>Human Molecular Genetics</i> , 2014, 23, 3228-3238.	1.4	66
33	Group I Metabotropic Glutamate Antagonist Reduces Acute Neuronal Degeneration and Behavioral Deficits after Traumatic Brain Injury in Rats. <i>Experimental Neurology</i> , 2001, 169, 191-199.	2.0	62
34	Hippocampal Theta Dysfunction after Lateral Fluid Percussion Injury. <i>Journal of Neurotrauma</i> , 2010, 27, 1605-1615.	1.7	61
35	Maternal autism-associated IgG antibodies delay development and produce anxiety in a mouse gestational transfer model. <i>Journal of Neuroimmunology</i> , 2012, 252, 56-65.	1.1	61
36	Neurobehavioral protection by the neuronal calcium channel blocker Ziconotide in a model of traumatic diffuse brain injury in rats. <i>Journal of Neurosurgery</i> , 2000, 93, 821-828.	0.9	60

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37	Behavioral Phenotyping of Juvenile Long-Evans and Sprague-Dawley Rats: Implications for Preclinical Models of Autism Spectrum Disorders. <i>PLoS ONE</i> , 2016, 11, e0158150.	1.1	60
38	Ubiquitin-positive intranuclear inclusions in neuronal and glial cells in a mouse model of the fragile X premutation. <i>Brain Research</i> , 2010, 1318, 155-166.	1.1	59
39	Septohippocampal Neuromodulation Improves Cognition after Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2015, 32, 1822-1832.	1.7	59
40	Effects of electrical stimulation of amygdala upon neophobia and taste aversion. <i>Behavioral Biology</i> , 1975, 13, 349-358.	2.3	57
41	Anticonvulsant effects of magnesium sulfate on hippocampal seizures: Therapeutic implications in preeclampsia-eclampsia. <i>American Journal of Obstetrics and Gynecology</i> , 1992, 166, 1127-1136.	0.7	57
42	Postnatal environmental or experiential amelioration of neurobehavioral effects of perinatal alcohol exposure in rats. <i>Neuroscience and Biobehavioral Reviews</i> , 2007, 31, 202-211.	2.9	57
43	Mouse models of the fragile X premutation and fragile X-associated tremor/ataxia syndrome. <i>Journal of Neurodevelopmental Disorders</i> , 2014, 6, 25.	1.5	57
44	Induced expression of expanded CGG RNA causes mitochondrial dysfunction <i>in vivo</i> . <i>Cell Cycle</i> , 2014, 13, 2600-2608.	1.3	56
45	Place and taste aversion learning: Role of basal forebrain, parietal cortex, and amygdala. <i>Brain Research Bulletin</i> , 1992, 29, 345-353.	1.4	55
46	Temporal ordering deficits in female CGG KI mice heterozygous for the fragile X premutation. <i>Behavioural Brain Research</i> , 2010, 213, 263-268.	1.2	54
47	Amelioration of fetal alcohol-related neurodevelopmental disorders in rats. <i>Neurotoxicology and Teratology</i> , 2000, 22, 103-111.	1.2	53
48	Neuroprotection in the rat lateral fluid percussion model of traumatic brain injury by SNX-185, an N-type voltage-gated calcium channel blocker. <i>Experimental Neurology</i> , 2004, 190, 70-78.	2.0	53
49	Correlation of behavioral and cerebrovascular functions in the aging rat. <i>Neurobiology of Aging</i> , 1987, 8, 409-416.	1.5	52
50	Passive avoidance impairment in rats following cycloheximide injection into the amygdala. <i>Brain Research</i> , 1978, 158, 171-188.	1.1	51
51	Adenosine involvement in postictal events in amygdala-kindled rats. <i>Epilepsy Research</i> , 1990, 6, 171-179.	0.8	50
52	Reversibility of neuropathology and motor deficits in an inducible mouse model for FXTAS. <i>Human Molecular Genetics</i> , 2015, 24, 4948-4957.	1.4	50
53	Mouse Models of Fragile X-Associated Tremor Ataxia. <i>Journal of Investigative Medicine</i> , 2009, 57, 837-841.	0.7	49
54	Abnormal dendrite and spine morphology in primary visual cortex in the CGG knock-in mouse model of the fragile X premutation. <i>Epilepsia</i> , 2012, 53, 150-160.	2.6	48

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55	Low-Level Neonatal Thimerosal Exposure: Further Evaluation of Altered Neurotoxic Potential in SJL Mice. <i>Toxicological Sciences</i> , 2008, 101, 294-309.	1.4	47
56	The effects of p-chloroamphetamine, a depletor of brain serotonin, on the performance of rats in two types of positively reinforced complex spatial discrimination tasks. <i>Behavioral and Neural Biology</i> , 1989, 52, 131-144.	2.3	46
57	Immunologic and neurodevelopmental susceptibilities of autism. <i>NeuroToxicology</i> , 2008, 29, 532-545.	1.4	46
58	Variability in PolyIC induced immune response: Implications for preclinical maternal immune activation models. <i>Journal of Neuroimmunology</i> , 2018, 323, 87-93.	1.1	46
59	Opiate modification of amygdaloid-kindled seizures in rats. <i>Pharmacology Biochemistry and Behavior</i> , 1982, 16, 751-756.	1.3	45
60	Differential Effects of Adenosine Analogs on Amygdala, Hippocampus, and Caudate Nucleus Kindled Seizures. <i>Epilepsia</i> , 1987, 28, 658-666.	2.6	45
61	Maternal transfer of BDE-47 to offspring and neurobehavioral development in C57BL/6J mice. <i>Neurotoxicology and Teratology</i> , 2012, 34, 571-580.	1.2	45
62	Prenatal alcohol exposure alters hippocampal slice electrophysiology. <i>Alcohol</i> , 1990, 7, 507-511.	0.8	44
63	Chronic theophylline treatment increases adenosine A1, but not A2, receptor binding in the rat brain: An autoradiographic study. <i>Synapse</i> , 1991, 9, 95-102.	0.6	44
64	Phosphorylation of Calcium Calmodulin-Dependent Protein Kinase II following Lateral Fluid Percussion Brain Injury in Rats. <i>Journal of Neurotrauma</i> , 2007, 24, 638-650.	1.7	43
65	Motor deficits on a ladder rung task in male and female adolescent and adult CGG knock-in mice. <i>Behavioural Brain Research</i> , 2011, 222, 117-121.	1.2	42
66	Reversal learning after prenatal or early postnatal alcohol exposure in juvenile and adult rats. <i>Alcohol</i> , 2006, 38, 99-110.	0.8	40
67	Magnesium Sulfate Treatment Decreases N-Methyl-D-Aspartate Receptor Binding in the Rat Brain: An Autoradiographic Study. <i>Journal of the Society for Gynecologic Investigation</i> , 1994, 1, 25-30.	1.9	39
68	Electrophysiology of Hippocampal CA1 Neurons After Prenatal Ethanol Exposure. <i>Alcohol</i> , 1999, 17, 125-131.	0.8	39
69	Posttrial hippocampal, amygdaloid, and lateral hypothalamic electrical stimulation: Effects on short- and long-term memory of an appetitive experience.. <i>Journal of Comparative and Physiological Psychology</i> , 1976, 90, 260-267.	1.8	37
70	The Effect of Groups II and III Metabotropic Glutamate Receptor Activation on Neuronal Injury in a Rodent Model of Traumatic Brain Injury. <i>Neurosurgery</i> , 2001, 48, 1119-1127.	0.6	37
71	ICP Monitoring in the Rat: Comparison of Monitoring in the Ventricle, Brain Parenchyma, and Cisterna Magna. <i>Journal of Neurotrauma</i> , 1999, 16, 1095-1102.	1.7	33
72	Excitatory and inhibitory synaptic transmission is differentially influenced by two ortho-substituted polychlorinated biphenyls in the hippocampal slice preparation. <i>Toxicology and Applied Pharmacology</i> , 2009, 237, 168-177.	1.3	33

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73	Rare Intranuclear Inclusions in the Brains of 3 Older Adult Males With Fragile X Syndrome: Implications for the Spectrum of Fragile X-Associated Disorders. <i>Journal of Neuropathology and Experimental Neurology</i> , 2011, 70, 462-469.	0.9	33
74	CGG trinucleotide repeat length modulates neural plasticity and spatiotemporal processing in a mouse model of the fragile X premutation. <i>Hippocampus</i> , 2012, 22, 2260-2275.	0.9	31
75	Using mouse models of autism spectrum disorders to study the neurotoxicology of gene-environment interactions. <i>Neurotoxicology and Teratology</i> , 2013, 36, 17-35.	1.2	31
76	Effects of water immersion stress on convulsions induced by pentylentetrazol. <i>Pharmacology Biochemistry and Behavior</i> , 1993, 45, 823-825.	1.3	30
77	Changes in purine levels and adenosine receptors in kindled seizures in the rat. <i>NeuroReport</i> , 2004, 15, 1585-1589.	0.6	30
78	Differential Hippocampal Protection when Blocking Intracellular Sodium and Calcium Entry during Traumatic Brain Injury in Rats. <i>Journal of Neurotrauma</i> , 2008, 25, 1195-1205.	1.7	30
79	Neuroprotective Effects of Selective N-Type VGCC Blockade on Stretch-Injury-Induced Calcium Dynamics in Cortical Neurons. <i>Journal of Neurotrauma</i> , 2010, 27, 175-187.	1.7	30
80	Female CGG knock-in mice modeling the fragile X premutation are impaired on a skilled forelimb reaching task. <i>Neurobiology of Learning and Memory</i> , 2012, 97, 229-234.	1.0	30
81	Effects of 17 $\beta$ -estradiol on intracellular calcium changes and neuronal survival after mechanical strain injury in neuronal-glial cultures. <i>Synapse</i> , 2006, 60, 406-410.	0.6	28
82	Immune Dysregulation as a Cause of Autoinflammation in Fragile X Premutation Carriers: Link between FMRI CGG Repeat Number and Decreased Cytokine Responses. <i>PLoS ONE</i> , 2014, 9, e94475.	1.1	26
83	The adenosine binding enhancer, PD 81,723, inhibits epileptiform bursting in the hippocampal brain slice. <i>Brain Research</i> , 1993, 619, 131-136.	1.1	25
84	Persisting behavioral and neurochemical deficits in rats following lesions of the basal forebrain. <i>Pharmacology Biochemistry and Behavior</i> , 1988, 29, 581-586.	1.3	24
85	Pharmacological enhancement of glutamate transport reduces excitotoxicity in vitro. <i>Restorative Neurology and Neuroscience</i> , 2011, 29, 331-346.	0.4	24
86	Phosphorylation of Synaptic Membranes. <i>Journal of Neurochemistry</i> , 1980, 34, 431-437.	2.1	23
87	Effects of Early Postnatal Exposure to Ethanol on Retinal Ganglion Cell Morphology and Numbers of Neurons in the Dorsolateral Geniculate in Mice. <i>Alcoholism: Clinical and Experimental Research</i> , 2011, 35, 2063-2074.	1.4	23
88	Functional activity of the adenosine binding enhancer, PD 81,723, in the in vitro hippocampal slice. <i>Brain Research</i> , 1991, 567, 181-187.	1.1	22
89	Environmental Enrichment Alters Neurotrophin Levels After Fetal Alcohol Exposure in Rats. <i>Alcoholism: Clinical and Experimental Research</i> , 2008, 32, 1741-1751.	1.4	21
90	Antisense therapy in a rat model of Alexander disease reverses GFAP pathology, white matter deficits, and motor impairment. <i>Science Translational Medicine</i> , 2021, 13, eabg4711.	5.8	21

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91	Effects of prenatal ethanol exposure on hippocampal theta activity in the rat. <i>Alcohol</i> , 1997, 14, 231-235.	0.8	20
92	Radial arm maze deficits in rats exposed to alcohol during midgestation. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 1994, 22, 181-185.	1.2	19
93	Spatiotemporal processing deficits in female CGG KI mice modeling the fragile X premutation. <i>Behavioural Brain Research</i> , 2012, 233, 29-34.	1.2	16
94	Effects of early postnatal alcohol exposure on the developing retinogeniculate projections in C57BL/6 mice. <i>Alcohol</i> , 2013, 47, 173-179.	0.8	16
95	Upregulation of cystathione Î²â€synthase and p70S6K/S6 in neonatal hypoxic ischemic brain injury. <i>Brain Pathology</i> , 2017, 27, 449-458.	2.1	16
96	Mouse Models of the Fragile X Premutation and the Fragile X Associated Tremor/Ataxia Syndrome. <i>Results and Problems in Cell Differentiation</i> , 2012, 54, 255-269.	0.2	16
97	Adenosinergic modulation of the EEG and locomotor effects of the A2 agonist, CGS 21680. <i>Pharmacology Biochemistry and Behavior</i> , 1993, 45, 913-919.	1.3	15
98	Astroglial-targeted expression of the fragile X CGG repeat premutation in mice yields RAN translation, motor deficits and possible evidence for cell-to-cell propagation of FXTAS pathology. <i>Acta Neuropathologica Communications</i> , 2019, 7, 27.	2.4	14
99	Effects of prenatal alcohol exposure on the hippocampus: Spatial behavior, electrophysiology, and neuroanatomy. <i>Hippocampus</i> , 2000, 10, 94.	0.9	14
100	Distribution and frequency of intranuclear inclusions in female CGG KI mice modeling the fragile X premutation. <i>Brain Research</i> , 2012, 1472, 124-137.	1.1	13
101	Fragile X-Associated Tremor/Ataxia Syndrome (FXTAS) Motor Dysfunction Modeled in Mice. <i>Cerebellum</i> , 2016, 15, 611-622.	1.4	11
102	Reduced activity-dependent protein levels in a mouse model of the fragile X premutation. <i>Neurobiology of Learning and Memory</i> , 2014, 109, 160-168.	1.0	7
103	Chronic theophylline prolongs the refractory period in amygdala-kindled rats. <i>Drug Development Research</i> , 1993, 29, 287-291.	1.4	5
104	What has been learned from mouse models of the Fragile X Premutation and Fragile X-associated tremor/ataxia syndrome?. <i>Clinical Neuropsychologist</i> , 2016, 30, 960-972.	1.5	5
105	The Effect of Groups II and III Metabotropic Glutamate Receptor Activation on Neuronal Injury in a Rodent Model of Traumatic Brain Injury. <i>Neurosurgery</i> , 2001, 48, 1119-1127.	0.6	5
106	Attenuation of in vivo and in vitro seizure activity using the adenosine agonist, metrifudil. <i>Drug Development Research</i> , 1995, 34, 30-34.	1.4	2
107	Lack of Evidence for Neonatal Misoprostol Neurodevelopmental Toxicity in C57BL6/J Mice. <i>PLoS ONE</i> , 2012, 7, e38911.	1.1	2
108	Juvenile experience alters strategies used to solve the radial arm maze in rats. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 1995, 23, 195-198.	1.2	2

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109	Allopregnanolone Improves Locomotor Activity and Arousal in the Aged CCG Knock-in Mouse Model of Fragile X-Associated Tremor/Ataxia Syndrome. <i>Frontiers in Neuroscience</i> , 2021, 15, 752973.	1.4	1
110	Modeling Neonatal Thimerosal Exposure in Mice. <i>Toxicological Sciences</i> , 2008, 103, 416-416.	1.4	0
111	Mouse Models of the Fragile X Tremor/Ataxia Syndrome (FXTAS) and the Fragile X Premutation. , 2015, , 641-652.		0
112	Mouse Models for FXTAS and the Fragile X Premutation. , 2016, , 161-179.		0
113	Abstract 2357: Src Kinase Inhibition Blocks Thrombin-induced Brain Injuries without Cognitive Side Effects. <i>Stroke</i> , 2012, 43, .	1.0	0