Richard McCarty

List of Publications by Year
in descending order

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120 papers	5,160 citations	76294 40 h-index	95218 68 g-index
121 all docs	121 docs citations	121 times ranked	2797 citing authors

#	Article	IF	Citations
1	Relationship between plasma norepinephrine and sympathetic neural activity.. Hypertension, 1983, 5, 552-559.	1.3	326
2	Vagal and sympathetic components of the heart rate range and gain of the baroreceptor-heart rate reflex in conscious rats. Journal of the Autonomic Nervous System, 1987, 21, 203-213.	1.9	249
3	Fluctuations in Brain Glucose Concentration during Behavioral Testing: Dissociations between Brain Areas and between Brain and Blood. Neurobiology of Learning and Memory, 2001, 75, 325-337.	1.0	185
4	Effect of stressor intensity on habituation of the adrenocortical stress response. Physiology and Behavior, 1988, 43, 41-46.	1.0	175
5	Effect of prenatal stress on plasma corticosterone and catecholamines in response to footshock in rats. Physiology and Behavior, 1998, 64, 439-444.	1.0	160
6	Alterations in plasma catecholamines and behavior during acute stress in spontaneously hypertensive and Wistar-Kyoto normotensive rats. Life Sciences, 1978, 22, 997-1005.	2.0	137
7	Sympatho-adrenal medullary activity and behavior during exposure to footshock stress: A comparison of seven rat strains. Physiology and Behavior, 1978, 21, 567-572.	1.0	133
8	Gender differences in sympathoadrenal activity in rats at rest and in response to footshock stress. International Journal of Developmental Neuroscience, 1998, 16, 289-295.	0.7	123
9	Unilateral odor deprivation: Effects on the development of olfactory bulb catecholamines and behavior. Developmental Brain Research, 1985, 22, 1-6.	2.1	113
10	Adrenal hormonal indices of stress in laboratory rats. Physiology and Behavior, 1987, 39, 117-125.	1.0	112
11	Plasma catecholamines: Effects of footshock level and hormonal modulators of memory storage*1. Hormones and Behavior, 1981, 15, 168-182.	1.0	111
12	Autonomic nervous system control of heart rate during baroreceptor activation in conscious and anesthetized rats. Journal of the Autonomic Nervous System, 1987, 20, 121-127.	1.9	105
13	Chronic stress and sympathetic-adrenal medullary responsiveness. Social Science and Medicine, 1988, 26, 333-341.	1.8	105
14	Patterns of behavioral development in spontaneously hypertensive rats and Wistar-Kyoto normotensive controls. Developmental Psychobiology, 1979, 12, 239-243.	0.9	97
15	Effects of immobilization on in vivo release of norepinephrine in the bed nucleus of the stria terminalis in conscious rats. Brain Research, 1995, 688, 242-246.	1.1	92
16	Plasma catecholamines: changes after footshock and seizure-producing frontal cortex stimulation. Behavioral and Neural Biology, 1981, 31, 247-260.	2.3	84
17	Adaptation to stress: Tyrosine hydroxylase activity and catecholamine release. Neuroscience and Biobehavioral Reviews, 1983, 7, 29-34.	2.9	84
18	Habituation of sympathetic-adrenal medullary responses following exposure to chronic intermittent stress. Physiology and Behavior, 1989, 45, 255-261.	1.0	84

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19	Sympathetic-adrenal medullary and cardiovascular responses to acute cold stress in adult and aged rats. Journal of the Autonomic Nervous System, 1985, 12, 15-22.	1.9	77
20	Differential plasma catecholamine and neuropeptide Y responses to acute stress in rats. Life Sciences, 1988, 42, 1615-1624.	2.0	77
21	Neurally mediated hyperactive voiding in spontaneously hypertensive rats. Brain Research, 1998, 790, 151-159.	1.1	77
22	Learning about stress: neural, endocrine and behavioral adaptations. Stress, 2016, 19, 449-475.	0.8	77
23	Stress, behavior and experimental hypertension. Neuroscience and Biobehavioral Reviews, 1983, 7, 493-502.	2.9	72
24	Stress-induced alterations in plasma catecholamines and behavior of rats: Effects of chlorisondamine and bretylium. Behavioral and Neural Biology, 1979, 27, 249-265.	2.3	68
25	Behavioral and cardiovascular responses of spontaneously hypertensive and normotensive rats to inescapable footshock. Behavioral Biology, 1978, 22, 405-410.	2.3	67
26	Spontaneously hypertensive rats: Adrenergic hyperresponsivity to anticipation of electric shock. Behavioral Biology, 1978, 23, 180-188.	2.3	61
27	Sensitization of sympathetic-adrenal medullary responses to a novel stressor in chronically stressed laboratory rats. Physiology and Behavior, 1989, 46, 129-135.	1.0	55
28	Glycemic control of pain threshold in diabetic and control rats. Physiology and Behavior, 1990, 47, 225-230.	1.0	55
29	Cross-fostering: Elucidating the effects of geneÃ—environment interactions on phenotypic development. Neuroscience and Biobehavioral Reviews, 2017, 73, 219-254.	2.9	54
30	Pain threshold in diabetic rats: effects of good versus poor diabetic control. Pain, 1992, 50, 231-236.	2.0	50
31	Aged rats: diminished sympatheticâ€"adrenal medullary responses to acute stress. Behavioral and Neural Biology, 1981, 33, 204-212.	2.3	49
32	Predictability of chronic intermittent stress: Effects on sympatheticâ€"adrenal medullary responses of laboratory rats. Behavioral and Neural Biology, 1990, 53, 231-243.	2.3	48
33	Maternal influences on adult blood pressure of SHRS: A single pup cross-fostering study. Physiology and Behavior, 1996, 59, 71-75.	1.0	48
34	Catecholamines, Stress, and Disease. Psychosomatic Medicine, 1996, 58, 590-597.	1.3	48
35	Stress, Aging, and Neurodegenerative Disorders: Molecular Mechanismsa. Annals of the New York Academy of Sciences, 1998, 851, 429-443.	1.8	47
36	Age-Related Alterations in Sympathetic-Adrenal Medullary Responses to Stress. Gerontology, 1986, 32, 172-183.	1.4	45

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37	Habituation and sensitization of plasma catecholamine responses to chronic intermittent stress: Effects of stressor intensity. Physiology and Behavior, 1990, 47, 647-652.	1.0	45
38	Patterns of parental care in two cricetid rodents, Onychomys torridus and Peromyscus leucopus. Animal Behaviour, 1977, 25, 945-948.	0.8	43
39	Efferent and afferent neuronal hypertrophy associated with micturition pathways in spontaneously hypertensive rats. , 1997, 16, 293-303.		43
40	Sympatho-adrenal activity of SHR and WKY rats during recovery from forced immobilization. Physiology and Behavior, 1978, 21, 951-955.	1.0	42
41	ANF receptors: Distribution and regulation in central and peripheral tissues. Neuroscience and Biobehavioral Reviews, 1988, 12, 151-168.	2.9	42
42	Altered regulation of bladder nerve growth factor and neurally mediated hyperactive voiding. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 275, R1279-R1286.	0.9	42
43	Patterns of maternal behavior in the spontaneously hypertensive rat. Physiology and Behavior, 1987, 39, 633-637.	1.0	39
44	Cross-species fostering: Effects on the olfactory preference of Onychomys torridus and Peromyscus leucopus. Behavioral Biology, 1977, 19, 255-260.	2.3	37
45	Strain differences in rat adrenal biosynthetic enzymes and stress-induced increases in plasma catecholamines. Life Sciences, 1979, 25, 747-754.	2.0	37
46	Spontaneous hypertension and open-field behavior. Behavioral and Neural Biology, 1982, 34, 450-452.	2.3	37
47	Maternal behavior of spontaneously hypertensive and Wistarâ€"Kyoto normotensive rats: Effects of reciprocal cross-fostering of litters. Behavioral and Neural Biology, 1990, 54, 90-96.	2.3	36
48	Plasma catecholamines in rats: Daily variations in basal levels and increments in response to stress. Physiology and Behavior, 1981, 26, 27-31.	1.0	35
49	Enhanced Sympathetic-adrenal Medullary Response to Cold Exposure in Spontaneously Hypertensive Rats. Journal of Hypertension, 1985, 3, 63-66.	0.3	35
50	Sympathetic-adrenal medullary response to stress in hyperactive and hypertensive rats. Physiology and Behavior, 1988, 44, 47-51.	1.0	35
51	Changes in plasma catecholamines and behavior of rats during the anticipation of footshock. Hormones and Behavior, 1978, 11, 248-257.	1.0	34
52	Disprocynium24, a novel inhibitor of the extraneuronal monoamine transporter, has potent effects on the inactivation of circulating noradrenaline and adrenaline in conscious rat. Naunyn-Schmiedeberg's Archives of Pharmacology, 1996, 354, 287-94.	1.4	34
53	Timing of preweanling maternal effects on development of hypertension in SHR rats. Physiology and Behavior, 1994, 55, 839-844.	1.0	33
54	ALTERED NGF REGULATION MAY LINK A GENETIC PREDISPOSITION FOR HYPERTENSION WITH HYPERACTIVE VOIDING. Journal of Urology, 1999, 161, 1372-1377.	0.2	33

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55	Sympatho-adrenal hyperreactivity to footshock stress but not to cold exposure in spontaneously hypertensive rats. Physiology and Behavior, 1981, 26, 85-89.	1.0	32
56	Physiological responses to acute stress in alloxan and streptozotocin diabetic rats. Physiology and Behavior, 1989, 45, 483-489.	1.0	32
57	Open-field behavior of spontaneously hypertensive and wistar-kyoto normotensive rats: Effects of reciprocal cross-fostering. Behavioral and Neural Biology, 1989, 51, 203-210.	2.3	31
58	Binding sites for atrial natriuretic factor (ANF) in kidneys and adrenal glands of spontaneously hypertensive (SHR) rats. Life Sciences, 1987, 40, 1673-1681.	2.0	30
59	Differential behavioral responses of spontaneously hypertensive (SHR) and normotensive (WKY) rats to d-amphetamine. Pharmacology Biochemistry and Behavior, 1980, 12, 53-59.	1.3	29
60	Onychomys leucogaster. Mammalian Species, 1978, , 1.	0.4	28
61	Differences in choline acetyltransferase but similarities in catecholamine biosynthetic enzymes in brains of two rat strains differing in their response to stress. Brain Research, 1981, 206, 239-243.	1.1	27
62	Vagotomy attenuates effects of l-glucose but not of d-glucose on spontaneous alternation performance. Physiology and Behavior, 2002, 77, 243-249.	1.0	27
63	Accelerated development of cardiac sympathetic responses in spontaneously hypertensive (SHR) rats. Behavioral and Neural Biology, 1987, 48, 321-333.	2.3	26
64	Paternal care and the development of behavior in the southern grasshopper mouse, Onychomys torridus. Behavioral Biology, 1977, 19, 476-490.	2.3	24
65	Plasma catecholamines in salt-sensitive hypertensive (Dahl) rats. Physiology and Behavior, 1982, 28, 1083-1088.	1.0	24
66	Ontogeny of functional sympathetic innervation to the heart and adrenal medulla in the preweanling rat. Journal of the Autonomic Nervous System, 1987, 19, 67-75.	1.9	24
67	Maternal influences on milk intake in SHR and WKY pups. Physiology and Behavior, 1994, 56, 901-906.	1.0	24
68	Adult blood pressure reduction in spontaneously hypertensive rats reared by normotensive Sprague‚Äî”Dawley mothers. Behavioral and Neural Biology, 1991, 56, 262-270.	2.3	23
69	Onychomys torridus. Mammalian Species, 1975, , 1.	0.4	22
70	Preweanling behavioral development in spontaneously hypertensive, borderline hypertensive, and wistar-kyoto normotensive rats. Developmental Psychobiology, 1987, 20, 57-69.	0.9	22
71	Cardiovascular and sympathetic nervous system responses to an acute stressor in borderline hypertensive rats (BHR). Physiology and Behavior, 1989, 46, 309-313.	1.0	22
72	Arterial Nerve Growth Factor (NGF) mRNA, Protein, and Vascular Smooth Muscle Cell NGF Secretion in Hypertensive and Hyperactive Rats. Experimental Cell Research, 1998, 244, 196-205.	1.2	21

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73	Plasma Catecholamines in Human and Experimental Hypertension. Clinical and Experimental Hypertension, 1980, 2, 379-394.	1.2	20
74	Quantitative autoradiographic analysis of somatostatin binding sites in discrete areas of rat forebrain. Brain Research Bulletin, 1987, 18, 29-34.	1.4	20
75	Regulation of plasma catecholamine responses to stress. Seminars in Neuroscience, 1994, 6, 197-204.	2.3	19
76	Seasonal effects on bipolar disorder: A closer look. Neuroscience and Biobehavioral Reviews, 2020, 115, 199-219.	2.9	19
77	Attenuation of Morphine-Induced Behavioral Changes in Rodents byd-andl-Glucose. Neurobiology of Learning and Memory, 1999, 71, 62-79.	1.0	18
78	Enhanced Release of Norepinephrine in Rat Hippocampus during Spontaneous Alternation Tests. Neurobiology of Learning and Memory, 1999, 71, 289-300.	1.0	18
79	Electrolyte content of milk differs in normotensive and spontaneously hypertensive rats. Cognitive, Affective and Behavioral Neuroscience, 1992, 20, 307-310.	1.2	18
80	Strain differences in sympatheticâ€“adrenal medullary responsiveness and behavior. Behavioral and Neural Biology, 1984, 40, 98-113.	2.3	17
81	Binding sites for atrial natriuretic factor (ANF) in brain: Alterations in Brattleboro rats. Brain Research Bulletin, 1986, 17, 767-772.	1.4	17
82	Stress, Aging, and Memory.. Annals of the New York Academy of Sciences, 1995, 771, 512-522.	1.8	15
83	Regulation of Peripheral Catecholamine Responses to Acute Stress in Young Adult and Aged F-344 Rats. Stress, 1997, 2, 113-122.	0.8	15
84	Effects of 2-deoxyglucose on plasma catecholamines in adult and aged rats. Neurobiology of Aging, 1984, 5, 285-289.	1.5	14
85	Cardiovascular responses to acute footshock stress in adult and aged Fischer 344 male rats. Neurobiology of Aging, 1985, 6, 47-50.	1.5	14
86	Maternal effects on the development of spontaneous hypertension.. Health Psychology, 1988, 7, 125-135.	1.3	14
87	Shared maternal influences in the development of high blood pressure in the spontaneously hypertensive (SHR) and Dahl salt-sensitive (SS/Jr) rat strains. Behavioral and Neural Biology, 1992, 57, 144-148.	2.3	13
88	Effects of handling during infancy on the sympathetic-adrenal medullary system of rats. Developmental Psychobiology, 1981, 14, 533-539.	0.9	12
89	Physiological responses of rats to footshock stress: Effects of social environment. Behavioral and Neural Biology, 1982, 34, 394-403.	2.3	12
90	Two New Wistar-Kyoto Rat Strains in which Hypertension and Hyperactivity are Expressed Separately. Clinical and Experimental Hypertension, 1991, 13, 939-945.	0.3	12

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91	Pregnancy: Its Effects on Blood Pressure, Heart Rate and Sympatho-Adrenal Activity in Spontaneously Hypertensive Rats. Experimental Biology and Medicine, 1978, 158, 242-244.	1.1	11
92	Parental environment: Effects on survival, growth and aggressive behaviors of 2 rodent species. Developmental Psychobiology, 1979, 12, 269-279.	0.9	11
93	Science, politics, and peer review: An editors dilemma.. American Psychologist, 2002, 57, 198-201.	3.8	11
94	Preweanling Administration of Terazosin Decreases Blood Pressure of Hypertensive Rats in Adulthood. Hypertension, 1996, 27, 1115-1120.	1.3	11
95	The development of convulsive seizures in the grasshopper mouse (Onychomys torridus). Developmental Psychobiology, 1975, 8, 547-552.	0.9	9
96	Plasma catecholamine responses to acute motion stress in laboratory rats. Physiology and Behavior, 1991, 49, 653-656.	1.0	8
97	Habituation of plasma catecholamine responses to chronic intermittent restraint stress. Cognitive, Affective and Behavioral Neuroscience, 1990, 18, 30-34.	1.2	8
98	Effects of parental environment on the prevalence of convulsive seizures inOnychomys torridus. Developmental Psychobiology, 1977, 10, 359-364.	0.9	7
99	Physiological and behavioral responses of New Zealand hypertensive and normotensive rats to stress. Physiology and Behavior, 1982, 28, 103-108.	1.0	7
100	Alterations in Binding Sites for Atrial Natriuretic Factor in Kidneys and Adrenal Glands of Dahl Hypertension-Sensitive Rats. Journal of Hypertension, 1987, 5, 481???488.	0.3	7
101	Brain binding sites for atrial natriuretic factor (ANF): Alterations in prehypertensive dahl salt-sensitive (S/JR) rats. Brain Research Bulletin, 1988, 20, 1-8.	1.4	7
102	Switching winter and summer photoperiods in an animal model of bipolar disorder. Neuropsychopharmacology, 2019, 44, 1677-1678.	2.8	7
103	Development of cardiac sympathetic and adrenal-medullary responses in borderline hypertensive rats. Journal of the Autonomic Nervous System, 1987, 21, 43-49.	1.9	6
104	Sources and Vasopressor Efficacy of Circulating Neuropeptide Y during Acute and Chronic Stress in Rats. Annals of the New York Academy of Sciences, 1990, 611, 412-414.	1.8	6
105	Enlightened: addressing circadian and seasonal changes in photoperiod in animal models of bipolar disorder. Translational Psychiatry, 2021, 11, 373.	2.4	6
106	Food deprivation: Effects on the predatory behavior of southern grasshopper mice (Onychomys) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1	1.5	6
107	Sympathetic responses of the heart and adrenal medulla in developing Dahl hypertensive rats. Physiology and Behavior, 1987, 39, 733-737.	1.0	5
108	Sympathetic-adrenal medullary responses to acute stress in dahl hypertensive (S/JR) rats. Physiology and Behavior, 1989, 45, 27-31.	1.0	5

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109	Altered gustatory development in Na+-Restricted rats is not explained by low Na+ levels in mothers' milk. Physiology and Behavior, 1993, 53, 823-826.	1.0	5
110	Rate of change in solar insolation is a hidden variable that influences seasonal alterations in bipolar disorder. Brain and Behavior, 2021, 11, e02198.	1.0	5
111	Regulation of binding sites for atrial natriuretic factor (ANF) in rat brain. Peptides, 1988, 9, 3-8.	1.2	4
112	Milk electrolyte content of Dahl hypertensive and normotensive rats. Physiology and Behavior, 1995, 57, 477-481.	1.0	4
113	Stress: Behavioral and biological interactions. Neuroscience and Biobehavioral Reviews, 1983, 7, 483-484.	2.9	3
114	Optimizing laboratory animal stress paradigms: The H-H* experimental design. Psychoneuroendocrinology, 2017, 75, 5-14.	1.3	3
115	ALTERED NGF REGULATION MAY LINK A GENETIC PREDISPOSITION FOR HYPERTENSION WITH HYPERACTIVE VOIDING. Journal of Urology, 1999, , 1372-1377.	0.2	3
116	Magnesium Deprivation and Seizures in Mongolian Gerbils. Journal of General Psychology, 1975, 92, 3-4.	1.6	2
117	Effects of dietary sodium on dopamine content of rat adrenal cortex. Physiology and Behavior, 1986, 37, 785-789.	1.0	2
118	Stress and Mental Disorders: Insights from Animal Models. , 2020, , .		2
119	Response to Hole et al. on â€˜the tail-flick test needs to be improvedâ€™. Pain, 1990, 43, 393.	2.0	0
120	Atrial Natriuretic Factor Systems and Experimental Hypertension. , 1991, , 365-408.		0