

# Rosa M Escorihuela

## List of Publications by Year in descending order

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78  
papers

4,896  
citations

81900

39  
h-index

91884

69  
g-index

78  
all docs

78  
docs citations

78  
times ranked

4207  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperalgesia, anxiety, and decreased hypoxic neuroprotection in mice lacking the adenosine A <sub>1</sub> receptor. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 9407-9412.	7.1	479
2	A behavioral assessment of Ts65Dn mice: a putative Down syndrome model. Neuroscience Letters, 1995, 199, 143-146.	2.1	233
3	Inbred Roman High- and Low-Avoidance Rats. Physiology and Behavior, 1999, 67, 19-26.	2.1	204
4	Neonatal handling and environmental enrichment effects on emotionality, novelty/reward seeking, and age-related cognitive and hippocampal impairments: focus on the Roman rat lines. Behavior Genetics, 1997, 27, 513-526.	2.1	189
5	Mice lacking the adenosine A <sub>1</sub> receptor are anxious and aggressive, but are normal learners with reduced muscle strength and survival rate. European Journal of Neuroscience, 2002, 16, 547-550.	2.6	169
6	Early-life handling stimulation and environmental enrichment. Pharmacology Biochemistry and Behavior, 2002, 73, 233-245.	2.9	152
7	Impaired short- and long-term memory in Ts65Dn mice, a model for Down syndrome. Neuroscience Letters, 1998, 247, 171-174.	2.1	149
8	Genetic Selection and Differential Stress Responses: The Roman Lines/Strains of Rats. Annals of the New York Academy of Sciences, 1998, 851, 501-510.	3.8	136
9	A Quantitative Trait Locus Influencing Anxiety in the Laboratory Rat. Genome Research, 2002, 12, 618-626.	5.5	133
10	Long-term neuroendocrine and behavioural effects of a single exposure to stress in adult animals. Neuroscience and Biobehavioral Reviews, 2008, 32, 1121-1135.	6.1	130
11	The early acquisition of two-way (shuttle-box) avoidance as an anxiety-mediated behavior: Psychopharmacological validation. Brain Research Bulletin, 1991, 26, 173-176.	3.0	119
12	Enduring effects of environmental enrichment on novelty seeking, saccharin and ethanol intake in two rat lines (RHA/Verh and RLA/Verh) differing in incentive-seeking behavior. Pharmacology Biochemistry and Behavior, 2002, 73, 225-231.	2.9	112
13	Effects of Postnatal Handling of Rats on Emotional, HPA-Axis, and Prolactin Reactivity to Novelty and Conflict. Physiology and Behavior, 1996, 60, 1355-1359.	2.1	111
14	7,8-Dihydroxyflavone, a TrkB receptor agonist, blocks long-term spatial memory impairment caused by immobilization stress in rats. Hippocampus, 2012, 22, 399-408.	1.9	102
15	Behavior of the Roman/Verh high- and low-avoidance rat lines in anxiety tests: relationship with defecation and self-grooming. Physiology and Behavior, 1995, 58, 1209-1213.	2.1	101
16	Neurophysiological and epigenetic effects of physical exercise on the aging process. Ageing Research Reviews, 2011, 10, 475-486.	10.9	98
17	Early stimulation effects on novelty-induced behavior in two psychogenetically-selected rat lines with divergent emotionality profiles. Neuroscience Letters, 1992, 137, 185-188.	2.1	94
18	Enduring effects of environmental enrichment from weaning to adulthood on pituitary-adrenal function, pre-pulse inhibition and learning in male and female rats. Psychoneuroendocrinology, 2009, 34, 1390-1404.	2.7	91

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19	Environmental enrichment effects in social investigation in rats are gender dependent. <i>Behavioural Brain Research</i> , 2006, 174, 181-187.	2.2	88
20	Environmental enrichment reverses the detrimental action of early inconsistent stimulation and increases the beneficial effects of postnatal handling on shuttlebox learning in adult rats. <i>Behavioural Brain Research</i> , 1994, 61, 169-173.	2.2	86
21	Environmental enrichment and postnatal handling prevent spatial learning deficits in aged hypoemotional (Roman high-avoidance) and hyperemotional (Roman low-avoidance) rats.. <i>Learning and Memory</i> , 1995, 2, 40-48.	1.3	85
22	Fearfulness and sex in F2 Roman rats: males display more fear though both sexes share the same fearfulness traits. <i>Physiology and Behavior</i> , 2003, 78, 723-732.	2.1	84
23	Long-term treadmill exercise induces neuroprotective molecular changes in rat brain. <i>Journal of Applied Physiology</i> , 2011, 111, 1380-1390.	2.5	83
24	Postnatal handling reduces emotionality ratings and accelerates two-way active avoidance in female rats. <i>Physiology and Behavior</i> , 1995, 57, 831-835.	2.1	77
25	Effects Of A Post-Weaning Cafeteria Diet In Young Rats: Metabolic Syndrome, Reduced Activity And Low Anxiety-Like Behaviour. <i>PLoS ONE</i> , 2014, 9, e85049.	2.5	76
26	Effects of training, early handling, and perinatal flumazenil on shuttle box acquisition in Roman low-avoidance rats: Toward overcoming a genetic deficit. <i>Neuroscience and Biobehavioral Reviews</i> , 1995, 19, 353-367.	6.1	73
27	Infantile (handling) stimulation and behavior in young Roman high- and low-avoidance rats. <i>Physiology and Behavior</i> , 1991, 50, 563-565.	2.1	71
28	Long-term behavioural and neuroendocrine changes in roman HIGH (RHA/Verh) and LOW (RLA/Verh) avoidance rats following neonatal handling. <i>International Journal of Developmental Neuroscience</i> , 1998, 16, 165-174.	1.6	67
29	Learned fear, emotional reactivity and fear of heights: a factor analytic map from a large F2 intercross of Roman rat strains. <i>Brain Research Bulletin</i> , 2002, 57, 17-26.	3.0	66
30	Epigenetic alterations in hippocampus of SAMP8 senescent mice and modulation by voluntary physical exercise. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 51.	3.4	65
31	Early Environmental Stimulation Produces Long-Lasting Changes on $\beta^2$ -Adrenoceptor Transduction System. <i>Neurobiology of Learning and Memory</i> , 1995, 64, 49-57.	1.9	60
32	Litter size affects emotionality in adult male rats. <i>Physiology and Behavior</i> , 2007, 92, 708-716.	2.1	58
33	Long-term physical exercise induces changes in sirtuin 1 pathway and oxidative parameters in adult rat tissues. <i>Experimental Gerontology</i> , 2012, 47, 925-935.	2.8	58
34	GABAergic and dopaminergic transmission in the brain of Roman high-avoidance and Roman low-avoidance rats. <i>Brain Research</i> , 1994, 638, 133-138.	2.2	57
35	LMN diet, rich in polyphenols and polyunsaturated fatty acids, improves mouse cognitive decline associated with aging and Alzheimer's disease. <i>Behavioural Brain Research</i> , 2012, 228, 261-271.	2.2	54
36	Postnatal handling reduces anxiety as measured by emotionality rating and hyponeophagia tests in female rats. <i>Pharmacology Biochemistry and Behavior</i> , 1995, 51, 199-203.	2.9	52

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37	Wnt pathway regulation by long-term moderate exercise in rat hippocampus. <i>Brain Research</i> , 2014, 1543, 38-48.	2.2	52
38	Long-Term Exercise Modulates Hippocampal Gene Expression in Senescent Female Mice. <i>Journal of Alzheimer's Disease</i> , 2013, 33, 1177-1190.	2.6	42
39	Stress and putative endogenous ligands for benzodiazepine receptors: The importance of characteristics of the aversive situation and of differential emotionality in experimental animals. <i>Experientia</i> , 1991, 47, 1051-1056.	1.2	41
40	Differential effects of early stimulation and/or perinatal flumazenil treatment in young Roman low- and high-avoidance rats. <i>Psychopharmacology</i> , 1992, 108, 170-176.	3.1	40
41	Effects of different handling-stimulation procedures and benzodiazepines on two-way active avoidance acquisition in rats. <i>Pharmacological Research</i> , 1991, 24, 273-282.	7.1	39
42	Long-term moderate treadmill exercise promotes stress-coping strategies in male and female rats. <i>Scientific Reports</i> , 2015, 5, 16166.	3.3	35
43	Labyrinth exploration, emotional reactivity, and conditioned fear in young Roman/Verh inbred rats. <i>Behavior Genetics</i> , 1997, 27, 573-578.	2.1	34
44	Differences between two psychogenetically selected lines of rats in a swimming pool matching-to-place task: long-term effects of infantile stimulation. <i>Behavior Genetics</i> , 2002, 32, 127-134.	2.1	32
45	Flumazenil Prevents the Anxiolytic Effects of Diazepam, Alprazolam and Adinazolam on the Early Acquisition of Two-Way Active Avoidance. <i>Pharmacological Research</i> , 1993, 28, 53-58.	7.1	31
46	Anxiolytic profiles of alprazolam and ethanol in the elevated plus-maze test and the early acquisition of shuttlebox avoidance. <i>Pharmacological Research</i> , 1994, 29, 37-46.	7.1	30
47	Physiological and behavioural consequences of long-term moderate treadmill exercise. <i>Psychoneuroendocrinology</i> , 2012, 37, 1745-1754.	2.7	30
48	Voluntary Exercise Promotes Beneficial Anti-aging Mechanisms in SAMP8 Female Brain. <i>Journal of Molecular Neuroscience</i> , 2015, 55, 525-532.	2.3	28
49	Beneficial effects of infantile stimulation on coping (avoidance) behavior in rats are prevented by perinatal blockade of benzodiazepine receptors with Ro 15-1788. <i>Neuroscience Letters</i> , 1991, 126, 45-48.	2.1	27
50	Effects of prenatal diazepam on two-way avoidance behavior, swimming navigation and brain levels of benzodiazepine-like molecules in male roman high- and low-avoidance rats. <i>Psychopharmacology</i> , 1995, 122, 51-57.	3.1	26
51	Differential effects of cohort removal stress on the acoustic startle response of the Roman/Verh rat strains. <i>Behavior Genetics</i> , 2000, 30, 71-75.	2.1	22
52	Slow and Fast Neocortical Oscillations in the Senescence-Accelerated Mouse Model SAMP8. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 141.	3.4	22
53	Struggling and Flumazenil Effects in the Swimming Test Are Related to the Level of Anxiety in Mice. <i>Neuropsychobiology</i> , 1994, 29, 23-27.	1.9	21
54	Limits of habituation and extinction: implications for relapse prevention programs in addictions. <i>Drug and Alcohol Dependence</i> , 1993, 32, 209-217.	3.2	20

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55	Transmembrane signaling through phospholipase C in cortical and hippocampal membranes of psychogenetically selected rat lines. <i>Psychopharmacology</i> , 2001, 154, 115-125.	3.1	19
56	Differential interactions between ethanol and Ro 15-4513 on two anxiety tests in rats. <i>Pharmacology Biochemistry and Behavior</i> , 1994, 47, 147-151.	2.9	18
57	Impact of a cafeteria diet and daily physical training on the rat serum metabolome. <i>PLoS ONE</i> , 2017, 12, e0171970.	2.5	18
58	Treadmill Intervention Attenuates the Cafeteria Diet-Induced Impairment of Stress-Coping Strategies in Young Adult Female Rats. <i>PLoS ONE</i> , 2016, 11, e0153687.	2.5	18
59	Imipramine and Desipramine Decrease the GABA-Stimulated Chloride Uptake, and Antigabaergic Agents Enhance Their Action in the Forced Swimming Test in Rats. <i>Neuropsychobiology</i> , 1990, 23, 147-152.	1.9	17
60	Infantile stimulation and the role of the benzodiazepine receptor system in adult acquisition of two-way avoidance behavior. <i>Psychopharmacology</i> , 1992, 106, 282-284.	3.1	17
61	Rcor2 underexpression in senescent mice: a target for inflammaging?. <i>Journal of Neuroinflammation</i> , 2014, 11, 126.	7.2	17
62	Postnatal handling, perinatal flumazenil, and adult behavior of the Roman rat lines. <i>Pharmacology Biochemistry and Behavior</i> , 1993, 44, 783-789.	2.9	16
63	Pharmacological properties of the GABAA receptor complex from brain regions of (hypoemotional) Roman high- and (hyperemotional) low-avoidance rats. <i>European Journal of Pharmacology</i> , 1998, 354, 91-97.	3.5	15
64	Dissecting ultra-processed foods and drinks: Do they have a potential to impact the brain?. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2022, 23, 697-717.	5.7	13
65	Evaluating activity and emotional reactivity in a hexagonal tunnel maze: Correlational and factorial analysis from a study with the Roman/Verh rat lines. <i>Behavior Genetics</i> , 1994, 24, 419-425.	2.1	12
66	How we train undergraduate medical students in decoding patients'™ nonverbal clues. <i>Medical Teacher</i> , 2011, 33, 804-807.	1.8	11
67	Picrotoxin changes the effects of imipramine and desipramine in rats in the forced swimming test. <i>European Journal of Pharmacology</i> , 1990, 181, 35-41.	3.5	10
68	Modeling emotional reactivity and sensation/novelty seeking with the Roman/Verh rat lines/strains: an introduction. <i>Behavior Genetics</i> , 1997, 27, 499-501.	2.1	9
69	High-fat diet induced adiposity and insulin resistance in mice lacking the myotonic dystrophy protein kinase. <i>FEBS Letters</i> , 2009, 583, 2121-2125.	2.8	9
70	A restricted cafeteria diet ameliorates biometric and metabolic profile in a rat diet-induced obesity model. <i>International Journal of Food Sciences and Nutrition</i> , 2021, 72, 767-780.	2.8	9
71	Two-way active avoidance as an animal model of anxiety: Negative correlation between plasma-corticosterone levels and avoidance performance. <i>Pharmacological Research</i> , 1992, 25, 5-6.	7.1	8
72	Long-term wheel running changes on sensorimotor activity and skeletal muscle in male and female mice of accelerated senescence. <i>Age</i> , 2014, 36, 9697.	3.0	8

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73	Behavioral and Metabolic Effects of a Calorie-Restricted Cafeteria Diet and Oleuropein Supplementation in Obese Male Rats. <i>Nutrients</i> , 2021, 13, 4474.	4.1	6
74	Evaluation of perinatal flumazenil effects on the behavior of female RLA/Verh rats in anxiety tests and shuttle box avoidance. <i>Pharmacology Biochemistry and Behavior</i> , 1996, 55, 475-480.	2.9	4
75	New indices for quantification of the power spectrum of heart rate variability time series without the need of any frequency band definition. <i>Physiological Measurement</i> , 2011, 32, 995-1009.	2.1	4
76	Effects of early stimulation and/or perinatal flumazenil on emotional behavior of two psychogenetically-selected rat lines with divergent emotionality profiles. <i>Pharmacological Research</i> , 1992, 25, 27-28.	7.1	3
77	Chronic Effect of a Cafeteria Diet and Intensity of Resistance Training on the Circulating Lysophospholipidome in Young Rats. <i>Metabolites</i> , 2021, 11, 471.	2.9	1
78	Consequences of eliminating adenosine A1 receptors in mice. <i>Drug Development Research</i> , 2003, 58, 350-353.	2.9	0