

Maria Javier Ramirez

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113
papers

5,111
citations

43
h-index

69
g-index

117
ext. papers

5,867
ext. citations

5
avg, IF

5.68
L-index

#	Paper	IF	Citations
113	Cognitive impairment associated to HPA axis hyperactivity after maternal separation in rats. <i>Psychoneuroendocrinology</i> , 2007 , 32, 256-66	5	384
112	Implication of Trimethylamine N-Oxide (TMAO) in Disease: Potential Biomarker or New Therapeutic Target. <i>Nutrients</i> , 2018 , 10,	6.7	222
111	c-Jun N-terminal Kinase (JNK) Signaling as a Therapeutic Target for Alzheimer's Disease. <i>Frontiers in Pharmacology</i> , 2015 , 6, 321	5.6	190
110	Cholinergic-serotonergic imbalance contributes to cognitive and behavioral symptoms in Alzheimer's disease. <i>Neuropsychologia</i> , 2005 , 43, 442-9	3.2	165
109	Effects of neonatal stress on markers of synaptic plasticity in the hippocampus: implications for spatial memory. <i>Hippocampus</i> , 2009 , 19, 1222-31	3.5	148
108	Effects of maternal separation on hypothalamic-pituitary-adrenal responses, cognition and vulnerability to stress in adult female rats. <i>Neuroscience</i> , 2008 , 154, 1218-26	3.9	142
107	Long-lasting behavioral effects and recognition memory deficit induced by chronic mild stress in mice: effect of antidepressant treatment. <i>Psychopharmacology</i> , 2008 , 199, 1-14	4.7	141
106	Nutrition for the ageing brain: Towards evidence for an optimal diet. <i>Ageing Research Reviews</i> , 2017 , 35, 222-240	12	120
105	CB2 receptor and amyloid pathology in frontal cortex of Alzheimer's disease patients. <i>Neurobiology of Aging</i> , 2013 , 34, 805-8	5.6	113
104	Differential involvement of 5-HT(1B/1D) and 5-HT6 receptors in cognitive and non-cognitive symptoms in Alzheimer's disease. <i>Neuropsychopharmacology</i> , 2004 , 29, 410-6	8.7	108
103	Increased vulnerability to depressive-like behavior of mice with decreased expression of VGLUT1. <i>Biological Psychiatry</i> , 2009 , 66, 275-82	7.9	103
102	Lack of localization of 5-HT6 receptors on cholinergic neurons: implication of multiple neurotransmitter systems in 5-HT6 receptor-mediated acetylcholine release. <i>European Journal of Neuroscience</i> , 2006 , 24, 1299-306	3.5	101
101	5-HT(6) receptor and cognition. <i>Current Opinion in Pharmacology</i> , 2011 , 11, 94-100	5.1	95
100	Exploring Pharmacological Mechanisms of Lavender () Essential Oil on Central Nervous System Targets. <i>Frontiers in Pharmacology</i> , 2017 , 8, 280	5.6	93
99	Interactions between age, stress and insulin on cognition: implications for Alzheimer's disease. <i>Neuropsychopharmacology</i> , 2010 , 35, 1664-73	8.7	93
98	Long lasting effects of early-life stress on glutamatergic/GABAergic circuitry in the rat hippocampus. <i>Neuropharmacology</i> , 2012 , 62, 1944-53	5.5	91
97	Inflammation and gut-brain axis link obesity to cognitive dysfunction: plausible pharmacological interventions. <i>Current Opinion in Pharmacology</i> , 2017 , 37, 87-92	5.1	81

96	Increased sensitivity to MPTP in human alpha-synuclein A30P transgenic mice. <i>Neurobiology of Aging</i> , 2006 , 27, 848-56	5.6	81
95	Sustained stress-induced changes in mice as a model for chronic depression. <i>Psychopharmacology</i> , 2010 , 210, 393-406	4.7	80
94	Alpha-lipoic acid prevents 3,4-methylenedioxy-methamphetamine (MDMA)-induced neurotoxicity. <i>NeuroReport</i> , 1999 , 10, 3675-80	1.7	78
93	Maternal deprivation effects on brain plasticity and recognition memory in adolescent male and female rats. <i>Neuropharmacology</i> , 2013 , 68, 223-31	5.5	76
92	Long term sex-dependent psychoneuroendocrine effects of maternal deprivation and juvenile unpredictable stress in rats. <i>Journal of Neuroendocrinology</i> , 2011 , 23, 329-44	3.8	75
91	Neurochemical basis for symptomatic treatment of Alzheimer's disease. <i>Neuropharmacology</i> , 2010 , 59, 221-9	5.5	75
90	Treatment Options in Alzheimer's Disease: The GABA Story. <i>Current Pharmaceutical Design</i> , 2015 , 21, 4960-71	3.3	73
89	Effect of the oral administration of nanoencapsulated quercetin on a mouse model of Alzheimer's disease. <i>International Journal of Pharmaceutics</i> , 2017 , 517, 50-57	6.5	70
88	5-HT6 receptors and Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2013 , 5, 15	9	66
87	HPA axis dysregulation associated to apolipoprotein E4 genotype in Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2010 , 22, 829-38	4.3	66
86	Serotonergic therapies for cognitive symptoms in Alzheimer's disease: rationale and current status. <i>Drugs</i> , 2014 , 74, 729-36	12.1	65
85	Decreased levels of guanosine 3', 5'-monophosphate (cGMP) in cerebrospinal fluid (CSF) are associated with cognitive decline and amyloid pathology in Alzheimer's disease. <i>Neuropathology and Applied Neurobiology</i> , 2015 , 41, 471-82	5.2	65
84	Novel benzo[b]thiophene derivatives as new potential antidepressants with rapid onset of action. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 3086-90	8.3	65
83	Effects of 5-HT6 receptor antagonism and cholinesterase inhibition in models of cognitive impairment in the rat. <i>British Journal of Pharmacology</i> , 2008 , 155, 434-40	8.6	62
82	Serotonin 5-HT Receptor Antagonists in Alzheimer's Disease: Therapeutic Rationale and Current Development Status. <i>CNS Drugs</i> , 2017 , 31, 19-32	6.7	61
81	Involvement of GABA systems in acetylcholine release induced by 5-HT3 receptor blockade in slices from rat entorhinal cortex. <i>Brain Research</i> , 1996 , 712, 274-80	3.7	61
80	Neonatal stress affects vulnerability of cholinergic neurons and cognition in the rat: involvement of the HPA axis. <i>Psychoneuroendocrinology</i> , 2009 , 34, 1495-505	5	60
79	Insulin levels are decreased in the cerebrospinal fluid of women with prodromal Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2010 , 22, 405-13	4.3	57

78	Regulation of markers of synaptic function in mouse models of depression: chronic mild stress and decreased expression of VGLUT1. <i>Journal of Neurochemistry</i> , 2010 , 114, 1302-14	6	56
77	Evaluation of cholinergic markers in Alzheimer's disease and in a model of cholinergic deficit. <i>Neuroscience Letters</i> , 2005 , 375, 37-41	3.3	56
76	Increase of locomotor activity underlying the behavioral disinhibition in tg2576 mice. <i>Behavioral Neuroscience</i> , 2007 , 121, 340-4	2.1	52
75	Alterations in brain leptin signalling in spite of unchanged CSF leptin levels in Alzheimer's disease. <i>Aging Cell</i> , 2015 , 14, 122-9	9.9	50
74	Involvement of the GABAergic system in depressive symptoms of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2006 , 27, 1110-7	5.6	48
73	Chronic stress and impaired glutamate function elicit a depressive-like phenotype and common changes in gene expression in the mouse frontal cortex. <i>European Neuropsychopharmacology</i> , 2011 , 21, 23-32	1.2	47
72	GPR55: A therapeutic target for Parkinson's disease?. <i>Neuropharmacology</i> , 2017 , 125, 319-332	5.5	45
71	Stress-induced anhedonia is associated with an increase in Alzheimer's disease-related markers. <i>British Journal of Pharmacology</i> , 2012 , 165, 897-907	8.6	43
70	Methyl donor supplementation in rats reverses the deleterious effect of maternal separation on depression-like behaviour. <i>Behavioural Brain Research</i> , 2016 , 299, 51-8	3.4	39
69	Propranolol restores cognitive deficits and improves amyloid and Tau pathologies in a senescence-accelerated mouse model. <i>Neuropharmacology</i> , 2013 , 64, 137-44	5.5	39
68	Involvement of neurokinins in the non-cholinergic response to activation of 5-HT ₃ and 5-HT ₄ receptors in guinea-pig ileum. <i>British Journal of Pharmacology</i> , 1994 , 111, 419-24	8.6	39
67	Effects of early maternal separation on biobehavioral and neuropathological markers of Alzheimer's disease in adult male rats. <i>Current Alzheimer Research</i> , 2013 , 10, 420-32	3	39
66	Modulation of BDNF cleavage by plasminogen-activator inhibitor-1 contributes to Alzheimer's neuropathology and cognitive deficits. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017 , 1863, 991-1001	6.9	38
65	Fatty acid amide hydrolase inhibition for the symptomatic relief of Parkinson's disease. <i>Brain, Behavior, and Immunity</i> , 2016 , 57, 94-105	16.6	38
64	Cholinergic hypofunction impairs memory acquisition possibly through hippocampal Arc and BDNF downregulation. <i>Hippocampus</i> , 2011 , 21, 999-1009	3.5	37
63	Propranolol reduces cognitive deficits, amyloid and tau pathology in Alzheimer's transgenic mice. <i>International Journal of Neuropsychopharmacology</i> , 2013 , 16, 2245-57	5.8	36
62	Involvement of an altered 5-HT ₆ receptor function in behavioral symptoms of Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2008 , 14, 43-50	4.3	35
61	GABA(A) receptor antagonists enhance cortical acetylcholine release induced by 5-HT(3) receptor blockade in freely moving rats. <i>Brain Research</i> , 2002 , 956, 81-5	3.7	33

60	Effect of selective cholinergic denervation on the serotonergic system: implications for learning and memory. <i>Journal of Neuropathology and Experimental Neurology</i> , 2006 , 65, 1074-81	3.1	32
59	Altered NCAM expression associated with the cholinergic system in Alzheimer's disease. <i>Journal of Alzheimers Disease</i> , 2010 , 20, 659-68	4.3	30
58	Stress contributes to the development of central insulin resistance during aging: implications for Alzheimer's disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013 , 1832, 2332-9	6.9	28
57	Postnatal maternal separation modifies the response to an obesogenic diet in adulthood in rats. <i>DMM Disease Models and Mechanisms</i> , 2012 , 5, 691-7	4.1	28
56	Precision Obesity Treatments Including Pharmacogenetic and Nutrigenetic Approaches. <i>Trends in Pharmacological Sciences</i> , 2016 , 37, 575-593	13.2	28
55	Object recognition test for studying cognitive impairments in animal models of Alzheimer's disease. <i>Frontiers in Bioscience - Scholar</i> , 2015 , 7, 10-29	2.4	27
54	Cholinergic denervation exacerbates amyloid pathology and induces hippocampal atrophy in Tg2576 mice. <i>Neurobiology of Disease</i> , 2012 , 48, 439-46	7.5	26
53	5-HT2 receptor regulation of acetylcholine release induced by dopaminergic stimulation in rat striatal slices. <i>Brain Research</i> , 1997 , 757, 17-23	3.7	26
52	Functional interaction between 5-HT(6) receptors and hypothalamic-pituitary-adrenal axis: cognitive implications. <i>Neuropharmacology</i> , 2008 , 54, 708-14	5.5	26
51	Differential interaction between 5-HT3 receptors and GABAergic neurons inhibiting acetylcholine release in rat entorhinal cortex slices. <i>Brain Research</i> , 1998 , 801, 228-32	3.7	24
50	Signalling pathways associated with 5-HT6 receptors: relevance for cognitive effects. <i>International Journal of Neuropsychopharmacology</i> , 2010 , 13, 775-84	5.8	23
49	Selective effects of the APOE epsilon4 allele on presynaptic cholinergic markers in the neocortex of Alzheimer's disease. <i>Neurobiology of Disease</i> , 2006 , 22, 555-61	7.5	23
48	Flumazenil and tacrine increase the effectiveness of ondansetron on scopolamine-induced impairment of spatial learning in rats. <i>Psychopharmacology</i> , 2003 , 169, 35-41	4.7	21
47	Down-regulation of glutamatergic terminals (VGLUT1) driven by Aβ in Alzheimer's disease. <i>Hippocampus</i> , 2016 , 26, 1303-12	3.5	21
46	Decreased rabphilin 3A immunoreactivity in Alzheimer's disease is associated with Aβ burden. <i>Neurochemistry International</i> , 2014 , 64, 29-36	4.4	19
45	Early cognitive stimulation compensates for memory and pathological changes in Tg2576 mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013 , 1832, 837-47	6.9	19
44	An Increase in Plasma Homovanillic Acid with Cocoa Extract Consumption Is Associated with the Alleviation of Depressive Symptoms in Overweight or Obese Adults on an Energy Restricted Diet in a Randomized Controlled Trial. <i>Journal of Nutrition</i> , 2015 , 146, 897S-904S	4.1	19
43	Mineralocorticoid receptor activation induces insulin resistance through c-Jun N-terminal kinases in response to chronic corticosterone: cognitive implications. <i>Journal of Neuroendocrinology</i> , 2013 , 25, 350-358	3.8	19

42	Expression of amyloid precursor protein, tau and presenilin RNAs in rat hippocampus following deafferentation lesions. <i>Brain Research</i> , 2001 , 907, 222-32	3.7	19
41	Revealing the cerebral regions and networks mediating vulnerability to depression: oxidative metabolism mapping of rat brain. <i>Behavioural Brain Research</i> , 2014 , 267, 83-94	3.4	18
40	Propranolol reduces cognitive deficits, amyloid β levels, tau phosphorylation and insulin resistance in response to chronic corticosterone administration. <i>International Journal of Neuropsychopharmacology</i> , 2013 , 16, 1351-60	5.8	18
39	Increased Levels of Brain Adrenomedullin in the Neuropathology of Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2018 , 55, 5177-5183	6.2	16
38	Lipoic acid improves neuronal insulin signalling and rescues cognitive function regulating VGlut1 expression in high-fat-fed rats: Implications for Alzheimer's disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016 , 1862, 511-517	6.9	15
37	Effect of dietary restriction on peripheral monoamines and anxiety symptoms in obese subjects with metabolic syndrome. <i>Psychoneuroendocrinology</i> , 2014 , 47, 98-106	5	15
36	Facilitation of cholinergic transmission by combined treatment of ondansetron with flumazenil after cortical cholinergic deafferentation. <i>Neuropharmacology</i> , 2004 , 47, 225-32	5.5	14
35	Expression of the glucose transporter GLUT12 in Alzheimer's disease patients. <i>Journal of Alzheimers Disease</i> , 2014 , 42, 97-101	4.3	12
34	Adrenomedullin expression and function in the rat carotid body. <i>Journal of Endocrinology</i> , 2003 , 176, 95-102	4.7	12
33	5-HT ₆ receptor signal transduction second messenger systems. <i>International Review of Neurobiology</i> , 2010 , 94, 89-110	4.4	11
32	DHA Selectively Protects SAMP-8-Associated Cognitive Deficits Through Inhibition of JNK. <i>Molecular Neurobiology</i> , 2019 , 56, 1618-1627	6.2	10
31	Adrenomedullin Contributes to Age-Related Memory Loss in Mice and Is Elevated in Aging Human Brains. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 384	6.1	10
30	Mechanisms involved in BACE upregulation associated to stress. <i>Current Alzheimer Research</i> , 2012 , 9, 822-9	3	10
29	Effects of perinatal diet and prenatal stress on the behavioural profile of aged male and female rats. <i>Journal of Psychopharmacology</i> , 2017 , 31, 356-364	4.6	9
28	Chronic elevation of amyloid precursor protein in the neocortex or hippocampus of marmosets with selective cholinergic lesions. <i>Journal of Neural Transmission</i> , 2001 , 108, 809-26	4.3	9
27	Adrenomedullin, a Novel Target for Neurodegenerative Diseases. <i>Molecular Neurobiology</i> , 2018 , 55, 8790-88148		
26	Pegylated nanoparticles for the oral delivery of nimodipine: Pharmacokinetics and effect on the anxiety and cognition in mice. <i>International Journal of Pharmaceutics</i> , 2018 , 543, 245-256	6.5	8
25	Changes in hippocampal SNAP-25 expression following afferent lesions. <i>Brain Research</i> , 2004 , 997, 133-5.7	5.7	8

24	GLUT12 Expression in Brain of Mouse Models of Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2020 , 57, 798-805	6.2	8
23	Dysbiosis and Alzheimer's Disease: Cause or Treatment Opportunity?. <i>Cellular and Molecular Neurobiology</i> , 2021 , 1	4.6	8
22	On the nature of the 5-HT receptor subtype inhibiting acetylcholine release in the guinea-pig ileum. <i>British Journal of Pharmacology</i> , 1994 , 113, 77-80	8.6	6
21	Involvement of the Serotonergic System in Cognitive and Behavioral Symptoms of Alzheimers Disease. <i>Current Psychiatry Reviews</i> , 2005 , 1, 337-343	0.9	5
20	Reduced serotonin levels after a lifestyle intervention in obese children: association with glucose and anthropometric measurements. <i>Nutricion Hospitalaria</i> , 2018 , 35, 279-285	1	3
19	5-HT receptors in Alzheimer's disease. <i>Neurochemistry International</i> , 2021 , 150, 105185	4.4	3
18	Venlafaxine reverses decreased proliferation in the subventricular zone in a rat model of early life stress. <i>Behavioural Brain Research</i> , 2015 , 292, 79-82	3.4	2
17	Regulation of serotonin (5-HT) function by a VGLUT1 dependent glutamate pathway. <i>Neuropharmacology</i> , 2013 , 70, 190-9	5.5	2
16	Effects of chronic blockade of 5-HT(6) receptors on NMDA receptor subunits expression. <i>Synapse</i> , 2009 , 63, 814-6	2.4	2
15	Biomarkers in Alzheimer's disease. <i>Advances in Laboratory Medicine / Avances En Medicina De Laboratorio</i> , 2021 , 2, 27-37	1.3	2
14	JNK: A Putative Link Between Insulin Signaling and VGLUT1 in Alzheimer's Disease. <i>Journal of Alzheimers Disease</i> , 2016 , 50, 963-7	4.3	2
13	Expression of Endothelial NOX5 Alters the Integrity of the Blood-Brain Barrier and Causes Loss of Memory in Aging Mice. <i>Antioxidants</i> , 2021 , 10,	7.1	2
12	Reduced Adrenomedullin Parallels Microtubule Dismantlement in Frontotemporal Lobar Degeneration. <i>Molecular Neurobiology</i> , 2018 , 55, 9328-9333	6.2	1
11	Purported Interactions of Amyloid- β and Glucocorticoids in Cytotoxicity and Genotoxicity: Implications in Alzheimer's Disease. <i>Journal of Alzheimers Disease</i> , 2016 , 54, 1085-1094	4.3	1
10	Biomarcadores en la enfermedad de Alzheimer. <i>Advances in Laboratory Medicine / Avances En Medicina De Laboratorio</i> , 2021 , 2, 39-50	1.3	1
9	Corticosteroid-binding-globulin (CBG)-deficient mice show high pY216-GSK3 β and phosphorylated-Tau levels in the hippocampus. <i>PLoS ONE</i> , 2021 , 16, e0246930	3.7	1
8	Current Neurotransmitter Strategies in AD Drug Development. <i>Advances in Behavioral Biology</i> , 1998 , 851-859		1
7	Trimethylamine N-oxide (TMAO) drives insulin resistance and cognitive deficiencies in a senescence accelerated mouse model.. <i>Mechanisms of Ageing and Development</i> , 2022 , 204, 111668	5.6	1

6 Interactions Between Age, Diet, and Insulin and Their Effect on Cognition **2018**, 223-238

5 S.27.03 Decreased VGLUT1 levels and long-term chronic mild stress: animal models addressing specific aspects of major depression. *European Neuropsychopharmacology*, **2009**, 19, S214-S215 1.2

4 P.2.b.012 Long-term neurobiological changes by chronic mild stress and residual alterations after antidepressant discontinuation. *European Neuropsychopharmacology*, **2009**, 19, S397-S398 1.2

3 Modulation of Cognition by Insulin and Aging: Implications for Alzheimer Disease 115-135

2 Brain ventricular enlargement in human and murine acute intermittent porphyria. *Human Molecular Genetics*, **2020**, 29, 3211-3223 5.6

1 Linking dietary methyl donors, maternal separation, and depression **2021**, 473-483