

Maria Javier Ramirez

List of Publications by Year in descending order

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114
papers

6,586
citations

44069

48
h-index

66911

78
g-index

117
all docs

117
docs citations

117
times ranked

9633
citing authors

#	ARTICLE	IF	CITATIONS
1	Cognitive impairment associated to HPA axis hyperactivity after maternal separation in rats. <i>Psychoneuroendocrinology</i> , 2007, 32, 256-266.	2.7	445
2	Implication of Trimethylamine N-Oxide (TMAO) in Disease: Potential Biomarker or New Therapeutic Target. <i>Nutrients</i> , 2018, 10, 1398.	4.1	403
3	c-Jun N-terminal Kinase (JNK) Signaling as a Therapeutic Target for Alzheimer's Disease. <i>Frontiers in Pharmacology</i> , 2015, 6, 321.	3.5	284
4	Cholinergic-serotonergic imbalance contributes to cognitive and behavioral symptoms in Alzheimer's disease. <i>Neuropsychologia</i> , 2005, 43, 442-449.	1.6	193
5	Exploring Pharmacological Mechanisms of Lavender (<i>Lavandula angustifolia</i>) Essential Oil on Central Nervous System Targets. <i>Frontiers in Pharmacology</i> , 2017, 8, 280.	3.5	169
6	Effects of maternal separation on hypothalamic-pituitary-adrenal responses, cognition and vulnerability to stress in adult female rats. <i>Neuroscience</i> , 2008, 154, 1218-1226.	2.3	164
7	Nutrition for the ageing brain: Towards evidence for an optimal diet. <i>Ageing Research Reviews</i> , 2017, 35, 222-240.	10.9	161
8	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.	3.1	160
9	Effects of neonatal stress on markers of synaptic plasticity in the hippocampus: Implications for spatial memory. <i>Hippocampus</i> , 2009, 19, 1222-1231.	1.9	156
10	CB2 receptor and amyloid pathology in frontal cortex of Alzheimer's disease patients. <i>Neurobiology of Aging</i> , 2013, 34, 805-808.	3.1	152
11	Differential Involvement of 5-HT1B/1D and 5-HT6 Receptors in Cognitive and Non-cognitive Symptoms in Alzheimer's Disease. <i>Neuropsychopharmacology</i> , 2004, 29, 410-416.	5.4	128
12	Inflammation and gut-brain axis link obesity to cognitive dysfunction: plausible pharmacological interventions. <i>Current Opinion in Pharmacology</i> , 2017, 37, 87-92.	3.5	119
13	Increased Vulnerability to Depressive-Like Behavior of Mice with Decreased Expression of VGLUT1. <i>Biological Psychiatry</i> , 2009, 66, 275-282.	1.3	118
14	5-HT6 receptor and cognition. <i>Current Opinion in Pharmacology</i> , 2011, 11, 94-100.	3.5	118
15	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, 1299-1306.	2.6	110
16	Interactions Between Age, Stress and Insulin on Cognition: Implications for Alzheimer's Disease. <i>Neuropsychopharmacology</i> , 2010, 35, 1664-1673.	5.4	109
17	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.	5.2	106
18	Long lasting effects of early-life stress on glutamatergic/GABAergic circuitry in the rat hippocampus. <i>Neuropharmacology</i> , 2012, 62, 1944-1953.	4.1	103

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19	Maternal deprivation effects on brain plasticity and recognition memory in adolescent male and female rats. <i>Neuropharmacology</i> , 2013, 68, 223-231.	4.1	103
20	Treatment Options in Alzheimer's Disease: The GABA Story. <i>Current Pharmaceutical Design</i> , 2015, 21, 4960-4971.	1.9	103
21	Neurochemical basis for symptomatic treatment of Alzheimer's disease. <i>Neuropharmacology</i> , 2010, 59, 221-229.	4.1	94
22	Sustained stress-induced changes in mice as a model for chronic depression. <i>Psychopharmacology</i> , 2010, 210, 393-406.	3.1	92
23	Increased sensitivity to MPTP in human α -synuclein A30P transgenic mice. <i>Neurobiology of Aging</i> , 2006, 27, 848-856.	3.1	88
24	α -Lipoic acid prevents 3,4-methylenedioxy-methamphetamine (MDMA)-induced neurotoxicity. <i>NeuroReport</i> , 1999, 10, 3675-3680.	1.2	86
25	Novel Benzo[<i>b</i>]thiophene Derivatives as New Potential Antidepressants with Rapid Onset of Action. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 3086-3090.	6.4	85
26	Long Term Sex-Dependent Psychoneuroendocrine Effects of Maternal Deprivation and Juvenile Unpredictable Stress in Rats. <i>Journal of Neuroendocrinology</i> , 2011, 23, 329-344.	2.6	84
27	Decreased levels of guanosine 3',5'-cyclic 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, 471-482.	3.2	84
28	5-HT ₆ receptors and Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2013, 5, 15.	6.2	82
29	Serotonin 5-HT ₆ Receptor Antagonists in Alzheimer's Disease: Therapeutic Rationale and Current Development Status. <i>CNS Drugs</i> , 2017, 31, 19-32.	5.9	82
30	Serotonergic Therapies for Cognitive Symptoms in Alzheimer's Disease: Rationale and Current Status. <i>Drugs</i> , 2014, 74, 729-736.	10.9	77
31	HPA Axis Dysregulation Associated to Apolipoprotein E4 Genotype in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2010, 22, 829-838.	2.6	73
32	Effects of 5-HT ₆ receptor antagonism and cholinesterase inhibition in models of cognitive impairment in the rat. <i>British Journal of Pharmacology</i> , 2008, 155, 434-440.	5.4	71
33	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, 1302-1314.	3.9	69
34	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.	3.8	69
35	Insulin Levels are Decreased in the Cerebrospinal Fluid of Women with Prodromal Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2010, 22, 405-413.	2.6	68
36	GPR55: A therapeutic target for Parkinson's disease?. <i>Neuropharmacology</i> , 2017, 125, 319-332.	4.1	67

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37	Neonatal stress affects vulnerability of cholinergic neurons and cognition in the rat: Involvement of the HPA axis. <i>Psychoneuroendocrinology</i> , 2009, 34, 1495-1505.	2.7	66
38	Involvement of GABA systems in acetylcholine release induced by 5-HT ₃ receptor blockade in slices from rat entorhinal cortex. <i>Brain Research</i> , 1996, 712, 274-280.	2.2	64
39	Evaluation of cholinergic markers in Alzheimer's disease and in a model of cholinergic deficit. <i>Neuroscience Letters</i> , 2005, 375, 37-41.	2.1	64
40	Increase of locomotor activity underlying the behavioral disinhibition in Tg2576 mice.. <i>Behavioral Neuroscience</i> , 2007, 121, 340-344.	1.2	64
41	Involvement of the GABAergic system in depressive symptoms of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2006, 27, 1110-1117.	3.1	56
42	Alterations in brain leptin signalling in spite of unchanged CSF leptin levels in Alzheimer's disease. <i>Aging Cell</i> , 2015, 14, 122-129.	6.7	56
43	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.	0.7	55
44	Stress-induced anhedonia is associated with an increase in Alzheimer's disease-related markers. <i>British Journal of Pharmacology</i> , 2012, 165, 897-907.	5.4	54
45	Methyl donor supplementation in rats reverses the deleterious effect of maternal separation on depression-like behaviour. <i>Behavioural Brain Research</i> , 2016, 299, 51-58.	2.2	54
46	Propranolol reduces cognitive deficits, amyloid and tau pathology in Alzheimer's transgenic mice. <i>International Journal of Neuropsychopharmacology</i> , 2013, 16, 2245-2257.	2.1	52
47	Propranolol restores cognitive deficits and improves amyloid and Tau pathologies in a senescence-accelerated mouse model. <i>Neuropharmacology</i> , 2013, 64, 137-144.	4.1	52
48	Fatty acid amide hydrolase inhibition for the symptomatic relief of Parkinson's disease. <i>Brain, Behavior, and Immunity</i> , 2016, 57, 94-105.	4.1	51
49	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, 420-432.	1.4	48
50	Cholinergic hypofunction impairs memory acquisition possibly through hippocampal Arc and BDNF downregulation. <i>Hippocampus</i> , 2011, 21, 999-1009.	1.9	46
51	Involvement of neurokinins in the noncholinergic response to activation of 5-HT ₃ and 5-HT ₄ receptors in guinea pig ileum. <i>British Journal of Pharmacology</i> , 1994, 111, 419-424.	5.4	44
52	Decreased rabphilin 3A immunoreactivity in Alzheimer's disease is associated with A β burden. <i>Neurochemistry International</i> , 2014, 64, 29-36.	3.8	41
53	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.	2.6	39
54	Altered NCAM Expression Associated with the Cholinergic System in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2010, 20, 659-668.	2.6	38

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55	Precision Obesity Treatments Including Pharmacogenetic and Nutrigenetic Approaches. Trends in Pharmacological Sciences, 2016, 37, 575-593.	8.7	36
56	Effect of Selective Cholinergic Denervation on the Serotonergic System: Implications for Learning and Memory. Journal of Neuropathology and Experimental Neurology, 2006, 65, 1074-1081.	1.7	35
57	Stress contributes to the development of central insulin resistance during aging: Implications for Alzheimer's disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 2332-2339.	3.8	35
58	GABAA receptor antagonists enhance cortical acetylcholine release induced by 5-HT3 receptor blockade in freely moving rats. Brain Research, 2002, 956, 81-85.	2.2	34
59	Postnatal maternal separation modifies the response to an obesogenic diet in adulthood. DMM Disease Models and Mechanisms, 2012, 5, 691-7.	2.4	34
60	Object recognition test for studying cognitive impairments in animal models of Alzheimer's disease. Frontiers in Bioscience - Scholar, 2015, 7, 10-29.	2.1	34
61	Downregulation of glutamatergic terminals (VGLUT1) driven by A β in Alzheimer's disease. Hippocampus, 2016, 26, 1303-1312.	1.9	32
62	5-HT2 receptor regulation of acetylcholine release induced by dopaminergic stimulation in rat striatal slices. Brain Research, 1997, 757, 17-23.	2.2	29
63	Functional interaction between 5-HT6 receptors and hypothalamic-pituitary-adrenal axis: Cognitive implications. Neuropharmacology, 2008, 54, 708-714.	4.1	29
64	Cholinergic denervation exacerbates amyloid pathology and induces hippocampal atrophy in Tg2576 mice. Neurobiology of Disease, 2012, 48, 439-446.	4.4	29
65	Brain Metabolic Alterations in Alzheimer's Disease. International Journal of Molecular Sciences, 2022, 23, 3785.	4.1	28
66	Differential interaction between 5-HT3 receptors and GABAergic neurons inhibiting acetylcholine release in rat entorhinal cortex slices. Brain Research, 1998, 801, 228-232.	2.2	26
67	Selective effects of the APOE ϵ 4 allele on presynaptic cholinergic markers in the neocortex of Alzheimer's disease. Neurobiology of Disease, 2006, 22, 555-561.	4.4	26
68	Signalling pathways associated with 5-HT6 receptors: relevance for cognitive effects. International Journal of Neuropsychopharmacology, 2010, 13, 775-784.	2.1	26
69	Flumazenil and tacrine increase the effectiveness of ondansetron on scopolamine-induced impairment of spatial learning in rats. Psychopharmacology, 2003, 169, 35-41.	3.1	24
70	Dysbiosis and Alzheimer's Disease: Cause or Treatment Opportunity?. Cellular and Molecular Neurobiology, 2022, 42, 377-387.	3.3	24
71	Early cognitive stimulation compensates for memory and pathological changes in Tg2576 mice. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 837-847.	3.8	23
72	Propranolol reduces cognitive deficits, amyloid β levels, tau phosphorylation and insulin resistance in response to chronic corticosterone administration. International Journal of Neuropsychopharmacology, 2013, 16, 1351-1360.	2.1	23

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73	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, 350-356.	2.6	23
74	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.	2.2	23
75	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> , 2016, 146, 897S-904S.	2.9	23
76	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.	2.9	21
77	Increased Levels of Brain Adrenomedullin in the Neuropathology of Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2018, 55, 5177-5183.	4.0	21
78	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.	3.8	20
79	Expression of Amyloid precursor protein, tau and presenilin RNAs in rat hippocampus following deafferentation lesions. <i>Brain Research</i> , 2001, 907, 222-232.	2.2	19
80	Facilitation of cholinergic transmission by combined treatment of ondansetron with flumazenil after cortical cholinergic deafferentation. <i>Neuropharmacology</i> , 2004, 47, 225-232.	4.1	17
81	Adrenomedullin, a Novel Target for Neurodegenerative Diseases. <i>Molecular Neurobiology</i> , 2018, 55, 8799-8814.	4.0	17
82	Effect of dietary restriction on peripheral monoamines and anxiety symptoms in obese subjects with metabolic syndrome. <i>Psychoneuroendocrinology</i> , 2014, 47, 98-106.	2.7	16
83	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.	4.6	16
84	Expression of the Glucose Transporter GLUT12 in Alzheimer's Disease Patients. <i>Journal of Alzheimer's Disease</i> , 2014, 42, 97-101.	2.6	15
85	p27, The Cell Cycle and Alzheimer's Disease. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1211.	4.1	15
86	Adrenomedullin expression and function in the rat carotid body. <i>Journal of Endocrinology</i> , 2003, 176, 95-102.	2.6	14
87	GLUT12 Expression in Brain of Mouse Models of Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2020, 57, 798-805.	4.0	14
88	5-HT6 Receptor Signal Transduction. <i>International Review of Neurobiology</i> , 2010, 94, 89-110.	2.0	13
89	Mechanisms Involved in BACE Upregulation Associated to Stress. <i>Current Alzheimer Research</i> , 2012, 9, 822-829.	1.4	13
90	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.	4.0	13

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91	DHA Selectively Protects SAMP-8-Associated Cognitive Deficits Through Inhibition of JNK. <i>Molecular Neurobiology</i> , 2019, 56, 1618-1627.	4.0	13
92	Biomarkers in Alzheimer's disease. <i>Advances in Laboratory Medicine / Avances En Medicina De Laboratorio</i> , 2021, 2, 27-37.	0.2	13
93	5-HT7 receptors in Alzheimer's disease. <i>Neurochemistry International</i> , 2021, 150, 105185.	3.8	12
94	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, 809-826.	2.8	11
95	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.	5.2	11
96	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, 1311.	5.1	11
97	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.	5.4	8
98	Changes in hippocampal SNAP-25 expression following afferent lesions. <i>Brain Research</i> , 2004, 997, 133-135.	2.2	8
99	Regulation of serotonin (5-HT) function by a VGLUT1 dependent glutamate pathway. <i>Neuropharmacology</i> , 2013, 70, 190-199.	4.1	7
100	Involvement of the Serotonergic System in Cognitive and Behavioral Symptoms of Alzheimers Disease. <i>Current Psychiatry Reviews</i> , 2005, 1, 337-343.	0.9	6
101	Reduced serotonin levels after a lifestyle intervention in obese children: association with glucose and anthropometric measurements. <i>Nutricion Hospitalaria</i> , 2018, 35, 279-285.	0.3	5
102	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.	2.2	4
103	Effects of chronic blockade of 5-HT ₆ receptors on NMDA receptor subunits expression. <i>Synapse</i> , 2009, 63, 814-816.	1.2	3
104	JNK: A Putative Link Between Insulin Signaling and VGLUT1 in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2016, 50, 963-967.	2.6	3
105	Brain ventricular enlargement in human and murine acute intermittent porphyria. <i>Human Molecular Genetics</i> , 2020, 29, 3211-3223.	2.9	3
106	Purported Interactions of Amyloid- β^2 and Glucocorticoids in Cytotoxicity and Genotoxicity: Implications in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2016, 54, 1085-1094.	2.6	2
107	Biomarcadores en la enfermedad de Alzheimer. <i>Advances in Laboratory Medicine / Avances En Medicina De Laboratorio</i> , 2021, 2, 39-50.	0.2	2
108	Corticosteroid-binding-globulin (CBG)-deficient mice show high pY216-GSK3 β^2 and phosphorylated-Tau levels in the hippocampus. <i>PLoS ONE</i> , 2021, 16, e0246930.	2.5	2

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109	Reduced Adrenomedullin Parallels Microtubule Dismantlement in Frontotemporal Lobar Degeneration. <i>Molecular Neurobiology</i> , 2018, 55, 9328-9333.	4.0	1
110	Current Neurotransmitter Strategies in AD Drug Development. <i>Advances in Behavioral Biology</i> , 1998, , 851-859.	0.2	1
111	S.27.03 Decreased VGLUT1 levels and long-term chronic mild stress: animal models addressing specific aspects of major depression. <i>European Neuropsychopharmacology</i> , 2009, 19, S214-S215.	0.7	0
112	P.2.b.012 Long-term neurobiological changes by chronic mild stress and residual alterations after antidepressant discontinuation. <i>European Neuropsychopharmacology</i> , 2009, 19, S397-S398.	0.7	0
113	Interactions Between Age, Diet, and Insulin and Their Effect on Cognition. , 2018, , 223-238.		0
114	Linking dietary methyl donors, maternal separation, and depression. , 2021, , 473-483.		0