Alicia Rivera

List of Publications by Year
in descending order

50 papers	2,629 citations	257450 24 h-index	223800 46 g-index
53 all docs	53 docs citations	53 times ranked	2818 citing authors

#	Article	IF	Citations
1	Differential regional and cellular distribution of dopamine D2-like receptors: An immunocytochemical study of subtype-specific antibodies in rat and human brain. , 1998, 402, 353-371.		243
2	Dopamine D5 receptors of rat and human brain. Neuroscience, 2000, 100, 689-699.	2.3	210
3	From the Golgiâ€“Cajal mapping to the transmitter-based characterization of the neuronal networks leading to two modes of brain communication: Wiring and volume transmission. Brain Research Reviews, 2007, 55, 17-54.	9.0	205
4	Receptorâ€“receptor interactions within receptor mosaics. Impact on neuropsychopharmacology. Brain Research Reviews, 2008, 58, 415-452.	9.0	192
5	Adenosineâ€“Dopamine Interactions in the Pathophysiology and Treatment of CNS Disorders. CNS Neuroscience and Therapeutics, 2010, 16, e18-42.	3.9	141
6	The G Protein-Coupled Receptor Heterodimer Network (GPCR-HetNet) and Its Hub Components. International Journal of Molecular Sciences, 2014, 15, 8570-8590.	4.1	124
7	Intramembrane receptorâ€“receptor interactions: a novel principle in molecular medicine. Journal of Neural Transmission, 2007, 114, 49-75.	2.8	113
8	Dopamine D4 receptors are heterogeneously distributed in the striosomes/matrix compartments of the striatum. Journal of Neurochemistry, 2002, 80, 219-229.	3.9	104
9	Volume transmission and wiring transmission from cellular to molecular networks: history and perspectives. Acta Physiologica, 2006, 187, 329-344.	3.8	104
10	Molecular phenotype of rat striatal neurons expressing the dopamine D5receptor subtype. European Journal of Neuroscience, 2002, 16, 2049-2058.	2.6	103
11	D5 (Not D1) Dopamine Receptors Potentiate Burst-Firing in Neurons of the Subthalamic Nucleus by Modulating an L-Type Calcium Conductance. Journal of Neuroscience, 2003, 23, 816-825.	3.6	101
12	On the role of P2X7 receptors in dopamine nerve cell degeneration in a rat model of Parkinsonâ€™s disease: studies with the P2X7 receptor antagonist A-438079. Journal of Neural Transmission, 2010, 117, 681-687.	2.8	89
13	Dopamine D2 and D4 receptor heteromerization and its allosteric receptorâ€“receptor interactions. Biochemical and Biophysical Research Communications, 2011, 404, 928-934.	2.1	88
14	Extrasynaptic Neurotransmission in the Modulation of Brain Function. Focus on the Striatal Neuronalâ€“Glial Networks. Frontiers in Physiology, 2012, 3, 136.	2.8	67
15	Dynamics of volume transmission in the brain. Focus on catecholamine and opioid peptide communication and the role of uncoupling protein 2. Journal of Neural Transmission, 2005, 112, 65-76.	2.8	60
16	Protection but maintained dysfunction of nigral dopaminergic nerve cell bodies and striatal dopaminergic terminals in MPTP-lesioned mice after acute treatment with the mGluR5 antagonist MPEP. Brain Research, 2005, 1033, 216-220.	2.2	52
17	Anxiogenic-like activity of 3,4-methylenedioxy-methamphetamine (â€œEcstasyâ€) in the social interaction test is accompanied by an increase of c-fos expression in mice amygdala. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2004, 28, 249-254.	4.8	43
18	Cellular localization and distribution of dopamine D4 receptors in the rat cerebral cortex and their relationship with the cortical dopaminergic and noradrenergic nerve terminal networks. Neuroscience, 2008, 155, 997-1010.	2.3	43

#	Article	IF	Citations
19	Brain Dopamine Transmission in Health and Parkinson's Disease: Modulation of Synaptic Transmission and Plasticity Through Volume Transmission and Dopamine Heteroreceptors. Frontiers in Synaptic Neuroscience, 2018, 10, 20.	2.5	43
20	Expression of D4 dopamine receptors in striatonigral and striatopallidal neurons in the rat striatum. Brain Research, 2003, 989, 35-41.	2.2	42
21	Understanding the Role of the Promotora in a Latino Diabetes Education Program. Qualitative Health Research, 2010, 20, 386-399.	2.1	42
22	Uncoupling protein 2/3 immunoreactivity and the ascending dopaminergic and noradrenergic neuronal systems: Relevance for volume transmission. Neuroscience, 2006, 137, 1447-1461.	2.3	40
23	Pancreatic Homeodomain Transcription Factor IDX1/IPF1 Expressed in Developing Brain Regulates Somatostatin Gene Transcription in Embryonic Neural Cells. Journal of Biological Chemistry, 2000, 275, 19106-19114.	3.4	37
24	Uncoupling protein-2 promotes nigrostriatal dopamine neuronal function. European Journal of Neuroscience, 2006, 24, 32-36.	2.6	35
25	One century of progress in neuroscience founded on Golgi and Cajal's outstanding experimental and theoretical contributions. Brain Research Reviews, 2007, 55, 167-189.	9.0	30
26	Molecular dissection of dopamine receptor signaling. Journal of Chemical Neuroanatomy, 2002, 23, 237-242.	2.1	24
27	Dopamine D4 receptor activation decreases the expression of Î¼-opioid receptors in the rat striatum. Journal of Comparative Neurology, 2007, 502, 358-366.	1.6	24
28	Dopamine D₄receptor stimulation prevents nigrostriatal dopamine pathway activation by morphine: relevance for drug addiction. Addiction Biology, 2017, 22, 1232-1245.	2.6	24
29	Effect of acute and continuous morphine treatment on transcription factor expression in subregions of the rat caudate putamen. Marked modulation by D4 receptor activation. Brain Research, 2011, 1407, 47-61.	2.2	22
30	Galanin-neuropeptideâ€ƒY (NPY) interactions in central cardiovascular control: involvement of the NPYâ€ƒY1receptor subtype. European Journal of Neuroscience, 2006, 24, 499-508.	2.6	18
31	Multiple Adenosine-Dopamine (A2A-D2 Like) Heteroreceptor Complexes in the Brain and Their Role in Schizophrenia. Cells, 2020, 9, 1077.	4.1	18
32	Understanding the balance and integration of volume and synaptic transmission. Relevance for psychiatry. Neurology Psychiatry and Brain Research, 2013, 19, 141-158.	2.0	17
33	On the G-Protein-Coupled Receptor Heteromers and Their Allosteric Receptor-Receptor Interactions in the Central Nervous System: Focus on Their Role in Pain Modulation. Evidence-based Complementary and Alternative Medicine, 2013, 2013, 1-17.	1.2	15
34	Pharmacological activation of dopamine D4 receptor modulates morphine-induced changes in the expression of GAD65/67 and GABAB receptors in the basal ganglia. Neuropharmacology, 2019, 152, 22-29.	4.1	15
35	Dopamine D4 Receptor Counteracts Morphine-Induced Changes in Âµ Opioid Receptor Signaling in the Striosomes of the Rat Caudate Putamen. International Journal of Molecular Sciences, 2014, 15, 1481-1498.	4.1	14
36	<i>Dunaliella tertiolecta</i> (Chlorophyta) Avoids Cell Death Under Ultraviolet Radiation By Triggering Alternative Photoprotective Mechanisms. Photochemistry and Photobiology, 2015, 91, 1389-1402.	2.5	13

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37	Early modulation by the dopamine D₄ receptor of morphineâ€induced changes in the opioid peptide systems in the rat caudate putamen. Journal of Neuroscience Research, 2013, 91, 1533-1540.	2.9	10
38	Propranolol blocks the tachycardia induced by galanin (1â€“15) but not by galanin (1â€“29). Regulatory Peptides, 2002, 107, 29-36.	1.9	9
39	Synthesis and dopaminergic activity of a series of new 1-aryl tetrahydroisoquinolines and 2-substituted 1-aryl-3-tetrahydrobenzazepines. Bioorganic Chemistry, 2018, 80, 480-491.	4.1	9
40	Common key-signals in learning and neurodegeneration: focus on excito-amino acids, Î²-amyloid peptides and Î±-synuclein. Journal of Neural Transmission, 2009, 116, 953-974.	2.8	8
41	Transcriptomic integration of D4R and MOR signaling in the rat caudate putamen. Scientific Reports, 2018, 8, 7337.	3.3	8
42	The Balance of MU-Opioid, Dopamine D2 and Adenosine A2A Heteroreceptor Complexes in the Ventral Striatal-Pallidal GABA Antireward Neurons May Have a Significant Role in Morphine and Cocaine Use Disorders. Frontiers in Pharmacology, 2021, 12, 627032.	3.5	8
43	Selective ablation of striatal striosomes produces the deregulation of dopamine nigrostriatal pathway. PLoS ONE, 2018, 13, e0203135.	2.5	7
44	Dopamine D4 Receptor Is a Regulator of Morphine-Induced Plasticity in the Rat Dorsal Striatum. Cells, 2022, 11, 31.	4.1	6
45	Synthesis of 1-substituted epibatidine analogues and their <i>in vitro</i> and <i>in vivo</i> evaluation as Î±₄Î²₂ nicotinic acetylcholine receptor ligands. RSC Advances, 2013, 4, 2226-2234.	3.6	4
46	Insulin-like Growth Factor II Prevents MPP+ and Glucocorticoid Mitochondrial-Oxidative and Neuronal Damage in Dopaminergic Neurons. Antioxidants, 2022, 11, 41.	5.1	3
47	Role of D 2 -like Heteroreceptor Complexes in the Effects of Cocaine, Morphine, and Hallucinogens. , 2016, , 93-101.		0
48	Analysis and Quantification of GPCR Allosteric Receptorâ€“Receptor Interactions Using Radioligand Binding Assays: The A2AR-D2R Heteroreceptor Complex Example. Neuromethods, 2018, , 1-14.	0.3	0
49	Searching the GPCR Heterodimer Network (GPCR-hetnet) Database for Information to Deduce the Receptorâ€“Receptor Interface and Its Role in the Integration of Receptor Heterodimer Functions. Neuromethods, 2018, , 283-298.	0.3	0
50	On the Study of D4R-MOR Receptorâ€“Receptor Interaction in the Rat Caudate Putamen: Relevance on Morphine Addiction. Neuromethods, 2018, , 25-39.	0.3	0