MariÃ¡n Castro

List of Publications by Year in descending order

51 papers	2,149 citations	361413 20 h-index	233421 45 g-index
52 all docs	52 docs citations	52 times ranked	3001 citing authors

#	Article	IF	Citations
1	Sustained cyclic AMP production by parathyroid hormone receptor endocytosis. Nature Chemical Biology, 2009, 5, 734-742.	8.0	502
2	Measurement of the millisecond activation switch of G proteinâ€“coupled receptors in living cells. Nature Biotechnology, 2003, 21, 807-812.	17.5	400
3	Turn-on switch in parathyroid hormone receptor by a two-step parathyroid hormone binding mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16084-16089.	7.1	168
4	Identification of novel species-selective agonists of the G-protein-coupled receptor GPR35 that promote recruitment of Î²-arrestin-2 and activate GÎ±13. Biochemical Journal, 2010, 432, 451-459.	3.7	91
5	Ligand Residence Time at G-proteinâ€“Coupled Receptorsâ€”Why We Should Take Our Time To Study It. Molecular Pharmacology, 2015, 88, 552-560.	2.3	66
6	Human breast cancer cell line MDA-MB-231 expresses endogenous A2B adenosine receptors mediating a Ca2+ signal. British Journal of Pharmacology, 2005, 145, 211-218.	5.4	65
7	G Proteinâ€“Coupled Receptor Multimers: A Question Still Open Despite the Use of Novel Approaches. Molecular Pharmacology, 2015, 88, 561-571.	2.3	64
8	Evidence for Distinct Antagonist-Revealed Functional States of 5-Hydroxytryptamine_{2A}Receptor Homodimers. Molecular Pharmacology, 2009, 75, 1380-1391.	2.3	60
9	Structureâ€Based Virtual Screening for Dopamine D₂ Receptor Ligands as Potential Antipsychotics. ChemMedChem, 2016, 11, 718-729.	3.2	51
10	Computer-Aided Structure-Based Design of Multitarget Leads for Alzheimerâ€™s Disease. Journal of Chemical Information and Modeling, 2015, 55, 135-148.	5.4	47
11	ETV5 cooperates with LPP as a sensor of extracellular signals and promotes EMT in endometrial carcinomas. Oncogene, 2012, 31, 4778-4788.	5.9	45
12	Dual Regulation of the Parathyroid Hormone (PTH)/PTH-Related Peptide Receptor Signaling by Protein Kinase C and Î²-Arrestins. Endocrinology, 2002, 143, 3854-3865.	2.8	43
13	Influence of Gz and Gi2 transducer proteins in the affinity of opioid agonists to Î¼ receptors. European Journal of Neuroscience, 1998, 10, 2557-2564.	2.6	37
14	Distinct phosphorylation sites on the ghrelin receptor, GHSR1a, establish a code that determines the functions of ÄŸ-arrestins. Scientific Reports, 2016, 6, 22495.	3.3	37
15	Different Architectures in the Assembly of Infectious Bursal Disease Virus Capsid Proteins Expressed in Insect Cells. Virology, 2000, 278, 322-331.	2.4	36
16	Extensive linkage disequilibrium mapping at HTR2A and DRD3 for schizophrenia susceptibility genes in the Galician population. Schizophrenia Research, 2007, 90, 123-129.	2.0	36
17	InÂvitro, molecular modeling and behavioral studies of 3-{[4-(5-methoxy-1H-indol-3-yl)-1,2,3,6-tetrahydropyridin-1-yl]methyl}-1,2-dihydroquinolin-2-one (D2AAK1) as a potential antipsychotic. Neurochemistry International, 2016, 96, 84-99.	3.8	35
18	New chromene scaffolds for adenosine A2A receptors: Synthesis, pharmacology and structureâ€“activity relationships. European Journal of Medicinal Chemistry, 2012, 54, 303-310.	5.5	33

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19	QF2004B, a potential antipsychotic butyrophenone derivative with similar pharmacological properties to clozapine. Neuropharmacology, 2006, 51, 251-262.	4.1	26
20	Parallel regulation by olanzapine of the patterns of expression of 5-HT2A and D3 receptors in rat central nervous system and blood cells. Neuropharmacology, 2006, 51, 923-932.	4.1	22
21	Novel insights on the structural determinants of clozapine and olanzapine multi-target binding profiles. European Journal of Medicinal Chemistry, 2014, 77, 91-95.	5.5	21
22	Rational design in search for 5-phenylhydantoin selective 5-HT7R antagonists. Molecular modeling, synthesis and biological evaluation. European Journal of Medicinal Chemistry, 2016, 112, 258-269.	5.5	21
23	GX/Z and Gi2 transducer proteins on Î¼/Î´ opioid-mediated supraspinal antinociception. Life Sciences, 1993, 53, PL381-PL386.	4.3	19
24	Synthesis, pharmacological and structural studies of 5-substituted-3-(1-arylmethyl-1,2,3,6-tetrahydropyridin-4-yl)-1H-indoles as multi-target ligands of aminergic GPCRs. European Journal of Medicinal Chemistry, 2019, 180, 673-689.	5.5	19
25	Application of BRET for Studying G Protein-Coupled Receptors. Mini-Reviews in Medicinal Chemistry, 2014, 14, 411-425.	2.4	19
26	Development of Fluorescent Probes that Target Serotonin 5-HT2B Receptors. Scientific Reports, 2017, 7, 10765.	3.3	15
27	N-(2-Hydroxyphenyl)-1-[3-(2-oxo-2,3-dihydro-1H- benzimidazol-1-yl)propyl]piperidine-4-Carboxamide (D2AAK4), a Multi-Target Ligand of Aminergic GPCRs, as a Potential Antipsychotic. Biomolecules, 2020, 10, 349.	4.0	14
28	Phe369(7.38) at human 5â€HT₇ receptors confers interspecies selectivity to antagonists and partial agonists. British Journal of Pharmacology, 2010, 159, 1069-1081.	5.4	13
29	On a Possible Neutral Charge State for the Catalytic Dyad in Î²-Secretase When Bound to Hydroxyethylene Transition State Analogue Inhibitors. Journal of Medicinal Chemistry, 2011, 54, 3081-3085.	6.4	13
30	Serotonin 2A receptor disulfide bridge integrity is crucial for ligand binding to different signalling states but not for its homodimerization. European Journal of Pharmacology, 2017, 815, 138-146.	3.5	11
31	Synthesis, Structural and Thermal Studies of 3-(1-Benzyl-1,2,3,6-tetrahydropyridin-4-yl)-5-ethoxy-1H-indole (D2AAK1_3) as Dopamine D2 Receptor Ligand. Molecules, 2018, 23, 2249.	3.8	11
32	Knowledge-Based Design of Long-Chain Arylpiperazine Derivatives Targeting Multiple Serotonin Receptors as Potential Candidates for Treatment of Autism Spectrum Disorder. ACS Chemical Neuroscience, 2021, 12, 1313-1327.	3.5	10
33	N-(3-{4-[3-(trifluoromethyl)phenyl]piperazin-1-yl}propyl)-1H-indazole-3-carboxamide (D2AAK3) as a potential antipsychotic: In vitro, in silico and in vivo evaluation of a multi-target ligand. Neurochemistry International, 2021, 146, 105016.	3.8	10
34	A new chemical tool (C0036E08) supports the role of adenosine A2B receptors in mediating human mast cell activation. Biochemical Pharmacology, 2008, 76, 912-921.	4.4	9
35	Synthesis of novel chromene scaffolds for adenosine receptors. Organic and Biomolecular Chemistry, 2011, 9, 4242.	2.8	9
36	New Nitrogen Compounds Coupled to Phenolic Units with Antioxidant and Antifungal Activities: Synthesis and Structureâ€“Activity Relationship. Molecules, 2018, 23, 2530.	3.8	9

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37	1-(2â€²-Bromobenzyl)-6,7-dihydroxy-N-methyl-tetrahydroisoquinoline and 1,2-Demethyl-nuciferine as Agonists in Human D₂ Dopamine Receptors. Journal of Natural Products, 2020, 83, 127-133.	3.0	9
38	Phenolic Imidazole Derivatives with Dual Antioxidant/Antifungal Activity: Synthesis and Structure-Activity Relationship. Medicinal Chemistry, 2019, 15, 341-351.	1.5	9
39	Antibodies raised against the N-terminal sequence of Î´ opioid receptors blocjed Î´-mediated supraspinal antinociception in mice. Life Sciences, 1994, 54, PL191-PL196.	4.3	7
40	The arylpiperazine derivatives N â€(4â€cyanophenylmethyl)â€4â€(2â€diphenyl)â€1â€piperazinehexanamide and N â€benzylâ€4â€(2â€diphenyl)â€1â€piperazinehexanamide exert a longâ€lasting inhibition of human serotonin 5â€HT7 receptor binding and cAMP signaling. Pharmacology Research and Perspectives, 2013, 1, e00013.	2.7	6
41	8-Aminomethyl-7-hydroxy-4-methylcoumarins as Multitarget Leads for Alzheimer's Disease. ChemistrySelect, 2016, 1, 2742-2749.	1.5	5
42	Allosteric modulation of dopamine D2L receptor in complex with Gi1 and Gi2 proteins: the effect of subtle structural and stereochemical ligand modifications. Pharmacological Reports, 2022, 74, 406-424.	3.3	5
43	Multitarget Derivatives of D2AAK1 as Potential Antipsychotics: The Effect of Substitution in the Indole Moiety. ChemMedChem, 2022, 17, .	3.2	5
44	2-Aryladenine derivatives as a potent scaffold for A1, A3 and dual A1/A3 adenosine receptor antagonists: Synthesis and structure-activity relationships. Bioorganic and Medicinal Chemistry, 2019, 27, 3551-3558.	3.0	4
45	Essential role of the C148â€“C227 disulphide bridge in the human 5-HT2A homodimeric receptor. Biochemical Pharmacology, 2020, 177, 113985.	4.4	4
46	Influence of Gz and Gi2 transducer proteins in the affinity of opioid agonists to mu receptors. European Journal of Neuroscience, 1998, 10, 2557-2564.	2.6	2
47	In vitro and in vivo evaluation of antioxidant and neuroprotective properties of antipsychotic D2AAK1. Neurochemical Research, 2022, 47, 1778-1789.	3.3	2
48	New Serotoninergic Ligands Containing Indolic and Methyl Indolic Nuclei: Synthesis and In Vitro Pharmacological Evaluation. Medicinal Chemistry, 2020, 16, 517-530.	1.5	1
49	Design and Synthesis of Arylpiperazine Serotonergic/Dopaminergic Ligands with Neuroprotective Properties. Molecules, 2022, 27, 1297.	3.8	1
50	An Experience of Using a Canvas-Based Template for Blended-Learning in a Master in Drug Discovery. International Journal of Emerging Technologies in Learning, 2022, 17, 257-267.	1.3	1
51	Knowledge-Based Design of Long-Chain Arylpiperazine Derivatives Targeting Multiple Serotonin Receptors as Potential Candidates for Treatment of Autism Spectrum Disorder. , 0, , .		0