Josefa Mallol

List of Publications by Year
in descending order

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104	6,890	46984	62565
papers	citations	47 h-index	80 g-index

104	104	104	5920
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Presynaptic Control of Striatal Glutamatergic Neurotransmission by Adenosine A1-A2A Receptor Heteromers. Journal of Neuroscience, 2006, 26, 2080-2087.	1.7	553
2	Coaggregation, Cointernalization, and Codesensitization of Adenosine A2A Receptors and Dopamine D2Receptors. Journal of Biological Chemistry, 2002, 277, 18091-18097.	1.6	450
3	Detection of heteromerization of more than two proteins by sequential BRET-FRET. Nature Methods, 2008, 5, 727-733.	9.0	269
4	Cell surface adenosine deaminase: Much more than an ectoenzyme. Progress in Neurobiology, 1997, 52, 283-294.	2.8	224
5	Cannabinoid Receptors CB1 and CB2 Form Functional Heteromers in Brain. Journal of Biological Chemistry, 2012, 287, 20851-20865.	1.6	196
6	Metabotropic Glutamate 1Î± and Adenosine A1 Receptors Assemble into Functionally Interacting Complexes. Journal of Biological Chemistry, 2001, 276, 18345-18351.	1.6	170
7	Direct involvement of Ïƒ-1 receptors in the dopamine D ₁ receptor-mediated effects of cocaine. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18676-18681.	3.3	153
8	Adenosine deaminase affects ligand-induced signalling by interacting with cell surface adenosine receptors. FEBS Letters, 1996, 380, 219-223.	1.3	150
9	A₁ Adenosine Receptors Accumulate in Neurodegenerative Structures in Alzheimer's Disease and Mediate Both Amyloid Precursor Protein Processing and Tau Phosphorylation and Translocation. Brain Pathology, 2003, 13, 440-451.	2.1	150
10	Homodimerization of adenosine A2A receptors: qualitative and quantitative assessment by fluorescence and bioluminescence energy transfer. Journal of Neurochemistry, 2003, 88, 726-734.	2.1	139
11	Marked changes in signal transduction upon heteromerization of dopamine D₁ and histamine H₃ receptors. British Journal of Pharmacology, 2009, 157, 64-75.	2.7	138
12	Allosteric interactions between agonists and antagonists within the adenosine A _{2A} receptor-dopamine D ₂ receptor heterotetramer. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3609-18.	3.3	135
13	Circadian-Related Heteromerization of Adrenergic and Dopamine D4 Receptors Modulates Melatonin Synthesis and Release in the Pineal Gland. PLoS Biology, 2012, 10, e1001347.	2.6	132
14	Glutamate Released by Dendritic Cells as a Novel Modulator of T Cell Activation. Journal of Immunology, 2006, 177, 6695-6704.	0.4	130
15	Functional Selectivity of Allosteric Interactions within G Proteinâ€“Coupled Receptor Oligomers: The Dopamine D₁-D₃ Receptor Heterotetramer. Molecular Pharmacology, 2014, 86, 417-429.	1.0	114
16	Group I Metabotropic Glutamate Receptors Mediate a Dual Role of Glutamate in T Cell Activation. Journal of Biological Chemistry, 2004, 279, 33352-33358.	1.6	113
17	Cocaine Inhibits Dopamine D2 Receptor Signaling via Sigma-1-D2 Receptor Heteromers. PLoS ONE, 2013, 8, e61245.	1.1	112
18	Dopamine D1-histamine H3 Receptor Heteromers Provide a Selective Link to MAPK Signaling in GABAergic Neurons of the Direct Striatal Pathway. Journal of Biological Chemistry, 2011, 286, 5846-5854.	1.6	109

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19	Detection of Heteromers Formed by Cannabinoid CB₁, Dopamine D₂, and Adenosine A_{2A}G-Protein-Coupled Receptors by Combining Bimolecular Fluorescence Complementation and Bioluminescence Energy Transfer. Scientific World Journal, The, 2008, 8, 1088-1097.	0.8	105
20	Interactions between Intracellular Domains as Key Determinants of the Quaternary Structure and Function of Receptor Heteromers. Journal of Biological Chemistry, 2010, 285, 27346-27359.	1.6	102
21	The Adenosine A2A Receptor Interacts with the Actin-binding Protein Î±-Actinin. Journal of Biological Chemistry, 2003, 278, 37545-37552.	1.6	100
22	Quaternary structure of a G-protein-coupled receptor heterotetramer in complex with Gi and Gs. BMC Biology, 2016, 14, 26.	1.7	97
23	Adenosine Deaminase and A1 Adenosine Receptors Internalize Together following Agonist-induced Receptor Desensitization. Journal of Biological Chemistry, 1998, 273, 17610-17617.	1.6	93
24	Comodulation of CXCR4 and CD26 in Human Lymphocytes. Journal of Biological Chemistry, 2001, 276, 19532-19539.	1.6	89
25	Involvement of Caveolin in Ligand-Induced Recruitment and Internalization of A₁Adenosine Receptor and Adenosine Deaminase in an Epithelial Cell Line. Molecular Pharmacology, 2001, 59, 1314-1323.	1.0	84
26	GPCR homomers and heteromers: A better choice as targets for drug development than GPCR monomers?. , 2009, 124, 248-257.		84
27	Basic Concepts in G-Protein-Coupled Receptor Homo- and Heterodimerization. Scientific World Journal, The, 2007, 7, 48-57.	0.8	83
28	l-DOPA-treatment in primates disrupts the expression of A2A adenosineâ€“CB1 cannabinoidâ€“D2 dopamine receptor heteromers in the caudate nucleus. Neuropharmacology, 2014, 79, 90-100.	2.0	83
29	Ligand-Induced Phosphorylation, Clustering, and Desensitization of A₁Adenosine Receptors. Molecular Pharmacology, 1997, 52, 788-797.	1.0	80
30	Up-regulation of the Kv3.4 potassium channel subunit in early stages of Alzheimer's disease. Journal of Neurochemistry, 2004, 91, 547-557.	2.1	78
31	l-DOPA disrupts adenosine A2Aâ€“cannabinoid CB1â€“dopamine D2 receptor heteromer cross-talk in the striatum of hemiparkinsonian rats: Biochemical and behavioral studies. Experimental Neurology, 2014, 253, 180-191.	2.0	77
32	The Two-State Dimer Receptor Model: A General Model for Receptor Dimers. Molecular Pharmacology, 2006, 69, 1905-1912.	1.0	76
33	Regulation of heptaspanning-membrane-receptor function by dimerization and clustering. Trends in Biochemical Sciences, 2003, 28, 238-243.	3.7	74
34	Old and new ways to calculate the affinity of agonists and antagonists interacting with G-protein-coupled monomeric and dimeric receptors: The receptorâ€“dimer cooperativity index. , 2007, 116, 343-354.		70
35	Cross-communication between Gi and Gs in a G-protein-coupled receptor heterotetramer guided by a receptor C-terminal domain. BMC Biology, 2018, 16, 24.	1.7	70
36	Cocaine Disrupts Histamine H₃Receptor Modulation of Dopamine D₁Receptor Signaling: Ï*f*₁-D₁-H₃Receptor Complexes as Key Targets for Reducing Cocaine's Effects. Journal of Neuroscience, 2014, 34, 3545-3558.	1.7	66

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37	Orexinâ€“Corticotropin-Releasing Factor Receptor Heteromers in the Ventral Tegmental Area as Targets for Cocaine. Journal of Neuroscience, 2015, 35, 6639-6653.	1.7	66
38	Ligand-induced caveolae-mediated internalization of A1 adenosine receptors: morphological evidence of endosomal sorting and receptor recycling. Experimental Cell Research, 2003, 285, 72-90.	1.2	65
39	Interactions between Calmodulin, Adenosine A2A, and Dopamine D2 Receptors. Journal of Biological Chemistry, 2009, 284, 28058-28068.	1.6	65
40	The Heat Shock Cognate Protein hsc73 Assembles with A 1 Adenosine Receptors To Form Functional Modules in the Cell Membrane. Molecular and Cellular Biology, 2000, 20, 5164-5174.	1.1	62
41	Dimer-based model for heptaspanning membrane receptors. Trends in Biochemical Sciences, 2005, 30, 360-366.	3.7	60
42	Adenosine deaminase potentiates the generation of effector, memory, and regulatory CD4+ T cells. Journal of Leukocyte Biology, 2010, 89, 127-136.	1.5	59
43	Adenosine Deaminase Interacts with A₁ Adenosine Receptors in Pig Brain Cortical Membranes. Journal of Neurochemistry, 1996, 66, 1675-1682.	2.1	58
44	Calcium mobilization in Jurkat cells via A2b adenosine receptors. British Journal of Pharmacology, 1997, 122, 1075-1082.	2.7	57
45	Regulation of epithelial and lymphocyte cell adhesion by adenosine deaminaseâ€“CD26 interaction. Biochemical Journal, 2002, 361, 203-209.	1.7	57
46	Molecular mechanisms involved in the adenosine A1 and A2A receptor-induced neuronal differentiation in neuroblastoma cells and striatal primary cultures. Journal of Neurochemistry, 2005, 92, 337-348.	2.1	56
47	Moonlighting Adenosine Deaminase: A Target Protein for Drug Development. Medicinal Research Reviews, 2015, 35, 85-125.	5.0	54
48	Molecular Evidence of Adenosine Deaminase Linking Adenosine A2A Receptor and CD26 Proteins. Frontiers in Pharmacology, 2018, 9, 106.	1.6	54
49	Intracellular Calcium Levels Determine Differential Modulation of Allosteric Interactions within G Protein-Coupled Receptor Heteromers. Chemistry and Biology, 2014, 21, 1546-1556.	6.2	51
50	Stronger Dopamine D1 Receptor-Mediated Neurotransmission in Dyskinesia. Molecular Neurobiology, 2015, 52, 1408-1420.	1.9	49
51	G Protein-Coupled Receptor Heteromers as New Targets for Drug Development. Progress in Molecular Biology and Translational Science, 2010, 91, 41-52.	0.9	46
52	Human adenosine deaminase as an allosteric modulator of human A₁ adenosine receptor: abolishment of negative cooperativity for [³H](R)â€pia binding to the caudate nucleus. Journal of Neurochemistry, 2008, 107, 161-170.	2.1	45
53	Heteroreceptor Complexes Formed by Dopamine D1, Histamine H3, and N-Methyl-D-Aspartate Glutamate Receptors as Targets to Prevent Neuronal Death in Alzheimerâ€™s Disease. Molecular Neurobiology, 2017, 54, 4537-4550.	1.9	44
54	A Significant Role of the Truncated Ghrelin Receptor GHS-R1b in Ghrelin-induced Signaling in Neurons. Journal of Biological Chemistry, 2016, 291, 13048-13062.	1.6	41

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55	Useful pharmacological parameters for G-protein-coupled receptor homodimers obtained from competition experiments. Agonistâ€“antagonist binding modulation. Biochemical Pharmacology, 2009, 78, 1456-1463.	2.0	39
56	Actin-binding Protein Î±-Actinin-1 Interacts with the Metabotropic Glutamate Receptor Type 5b and Modulates the Cell Surface Expression and Function of the Receptor. Journal of Biological Chemistry, 2007, 282, 12143-12153.	1.6	37
57	The neuronal Ca2+-binding protein 2 (NECAB2) interacts with the adenosine A2A receptor and modulates the cell surface expression and function of the receptor. Molecular and Cellular Neurosciences, 2007, 36, 1-12.	1.0	37
58	A2A adenosine receptor ligand binding and signalling is allosterically modulated by adenosine deaminase. Biochemical Journal, 2011, 435, 701-709.	1.7	37
59	Modification of 5â€²-Nucleotidase Activity by Divalent Cations and Nucleotides. Journal of Neurochemistry, 1983, 40, 1205-1211.	2.1	36
60	The catalytic site structural gate of adenosine deaminase allosterically modulates ligand binding to adenosine receptors. FASEB Journal, 2013, 27, 1048-1061.	0.2	35
61	Regulation of epithelial and lymphocyte cell adhesion by adenosine deaminaseâ€'CD26 interaction. Biochemical Journal, 2002, 361, 203.	1.7	34
62	Functional Î¼-Opioid-Galanin Receptor Heteromers in the Ventral Tegmental Area. Journal of Neuroscience, 2017, 37, 1176-1186.	1.7	34
63	The Adenosine Receptors Present on the Plasma Membrane of Chromaffin Cells Are of the A2bSubtype. Journal of Neurochemistry, 1992, 59, 425-431.	2.1	32
64	Novel pharmacological targets based on receptor heteromers. Brain Research Reviews, 2008, 58, 475-482.	9.1	32
65	Metabotropic glutamate type 1Î± receptor localizes in low-density caveolin-rich plasma membrane fractions. Journal of Neurochemistry, 2003, 86, 785-791.	2.1	31
66	Homodimerization of adenosine A1 receptors in brain cortex explains the biphasic effects of caffeine. Neuropharmacology, 2013, 71, 56-69.	2.0	30
67	Epidermal growth factor (EGF)-induced up-regulation and agonist- and antagonist-induced desensitization and internalization of A1 adenosine receptors in a pituitary-derived cell line. Brain Research, 1999, 816, 47-57.	1.1	29
68	The association of metabotropic glutamate receptor type 5 with the neuronal Ca²⁺â€binding protein 2 modulates receptor function. Journal of Neurochemistry, 2009, 111, 555-567.	2.1	27
69	Mutual regulation between metabotropic glutamate type 1Î±Âreceptor and caveolin proteins: from traffick to constitutive activity. Experimental Cell Research, 2004, 300, 23-34.	1.2	26
70	Adenosine deaminase enhances Tâ€cell response elicited by dendritic cells loaded with inactivated HIV. Immunology and Cell Biology, 2009, 87, 634-639.	1.0	26
71	Partners for Adenosine A₁ Receptors. Journal of Molecular Neuroscience, 2005, 26, 221-232.	1.1	25
72	Heptaspanning Membrane Receptors and Cytoskeletal/Scaffolding Proteins: Focus on Adenosine, Dopamine, and Metabotropic Glutamate Receptor Function. Journal of Molecular Neuroscience, 2005, 26, 277-292.	1.1	25

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73	Immunological dysfunction in HIVâ€1â€infected individuals caused by impairment of adenosine deaminaseâ€induced costimulation of Tâ€cell activation. Immunology, 2009, 128, 393-404.	2.0	25
74	Characterization of adenosine receptors in brushâ€border membranes from pig kidney. British Journal of Pharmacology, 1992, 107, 671-678.	2.7	23
75	Adenosine Deaminase Enhances the Immunogenicity of Human Dendritic Cells from Healthy and HIV-Infected Individuals. PLoS ONE, 2012, 7, e51287.	1.1	21
76	Adenosine deaminase regulates Treg expression in autologous T cell-dendritic cell cocultures from patients infected with HIV-1. Journal of Leukocyte Biology, 2016, 99, 349-359.	1.5	20
77	Ammonium toxicity in different cell lines. , 1997, 56, 530-537.		19
78	Regulation of L-Type Calcium Channels in GH4 Cells via A1 Adenosine Receptors. Journal of Neurochemistry, 2002, 69, 2546-2554.	2.1	19
79	Adenosine Receptors in Myelin Fractions and Subtractions: The Effect of the Agonist (R)-Phenylisopropyladenosine on Myelin Membrane Microviscosity. Journal of Neurochemistry, 1991, 57, 1623-1629.	2.1	15
80	Modulation of adenosine agonist [3H]N6-(R)-phenylisopropyladenosine binding to pig brain cortical membranes by changes of membrane fluidity and of medium physicochemical characteristics. European Journal of Pharmacology, 1992, 225, 7-14.	2.7	15
81	Reinterpreting anomalous competitive binding experiments within G protein-coupled receptor homodimers using a dimer receptor model. Pharmacological Research, 2019, 139, 337-347.	3.1	15
82	G_i protein coupling to adenosine A₁â€“A_{2A} receptor heteromers in human brain caudate nucleus. Journal of Neurochemistry, 2010, 114, 972-980.	2.1	14
83	Orexin A/Hypocretin Modulates Leptin Receptor-Mediated Signaling by Allosteric Modulations Mediated by the Ghrelin GHS-R1A Receptor in Hypothalamic Neurons. Molecular Neurobiology, 2018, 55, 4718-4730.	1.9	14
84	Effect of phospholipases and proteases on the [3H]N6-(R)-phenylisopropyladenosine ([3H]R-PIA) binding to A1 adenosine receptors from pig cerebral cortex. Journal of Cellular Biochemistry, 1991, 47, 278-288.	1.2	13
85	A Hybrid Indoloquinolizidine Peptide as Allosteric Modulator of Dopamine D1 Receptors. Journal of Pharmacology and Experimental Therapeutics, 2010, 332, 876-885.	1.3	13
86	Adenine nucleotides and adenosine metabolism in pig kidney proximal tubule membranes. Journal of Cellular Physiology, 1993, 157, 77-83.	2.0	12
87	Ecto-adenosine deaminase: An ecto-enzyme and a costimulatory protein acting on a variety of cell surface receptors. , 1998, 45, 261-268.		12
88	Adenosine/dopamine receptor-receptor interactions in the central nervous system. Drug Development Research, 2001, 52, 296-302.	1.4	11
89	Differential effect of amphetamine over the corticotropin-releasing factor CRF2 receptor, the orexin OX1 receptor and the CRF2-OX1 heteroreceptor complex. Neuropharmacology, 2019, 152, 102-111.	2.0	11
90	Quantum Chemical Study of the Electronic and Conformational Characteristics of Adenosine and 8-Substituted Derivatives: Functional Implications in the Mechanism of Reaction of Adenosine Deaminase. Journal of Pharmaceutical Sciences, 1990, 79, 133-137.	1.6	10

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91	The distribution of A1 adenosine receptor and 5?-nucleotidase in pig brain cortex subcellular fractions. Neurochemical Research, 1992, 17, 129-139.	1.6	10
92	Role of Histidine Residues in Agonist and Antagonist Binding Sites of A1Adenosine Receptor. Journal of Neurochemistry, 1993, 60, 1525-1533.	2.1	10
93	Detection of Receptor Heteromers Involving Dopamine Receptors by the Sequential BRET-FRET Technology. Methods in Molecular Biology, 2013, 964, 95-105.	0.4	10
94	Theoretical Approximation to the Reaction Mechanism of Adenosine Deaminase. QSAR and Combinatorial Science, 1989, 8, 109-114.	1.4	9
95	Ab initio study of the protonation and the tautomerism of the 7-aminopyrazolopyrimidine molecule. Journal of Organic Chemistry, 1990, 55, 753-756.	1.7	9
96	N-ethylmaleimide affects agonist binding to A1adenosine receptors differently in the presence than in the absence of ligand. Biochemical and Biophysical Research Communications, 1991, 181, 213-218.	1.0	9
97	Solubilization and molecular characterization of the nitrobenzylthioinosine binding sites from pig kidney brush-border membranes. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1191, 94-102.	1.4	9
98	Modulation of GH4 Cell Cycle via A1 Adenosine Receptors. Journal of Neurochemistry, 2002, 69, 2145-2154.	2.1	8
99	Isolation and characterization of bovine brain myelin distribution of 5?-nucleotidase. Neurochemical Research, 1988, 13, 349-357.	1.6	7
100	Adenosine metabolism in kidney slices under normoxic conditions. Journal of Cellular Physiology, 1990, 143, 344-351.	2.0	5
101	Localization of 5?-nucleotidase in bovine brain myelin fraction and myelin subfractions. Neurochemical Research, 1988, 13, 359-368.	1.6	4
102	Adenosine-glutamate receptor-receptor interactions in the central nervous system. Drug Development Research, 2001, 52, 316-322.	1.4	4
103	Dipropylcyclopentylxanthine triggers apoptosis in Jurkat T cells by a receptor-independent mechanism. Cell Death and Differentiation, 1997, 4, 639-646.	5.0	3
104	A1 Adenosine receptors can occur manifesting two kinetic components of 8-cyclopentyl-1,3-[3H]dipropylxanthine ([3H]DPCPX) binding. Naunyn-Schmiedeberg's Archives of Pharmacology, 1994, 349, 485-491.	1.4	2