

Josefa Mallol

List of Publications by Year in descending order

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104
papers

6,890
citations

47006

47
h-index

62596

80
g-index

104
all docs

104
docs citations

104
times ranked

5920
citing authors

#	ARTICLE	IF	CITATIONS
1	Presynaptic Control of Striatal Glutamatergic Neurotransmission by Adenosine A1-A2A Receptor Heteromers. <i>Journal of Neuroscience</i> , 2006, 26, 2080-2087.	3.6	553
2	Coaggregation, Cointernalization, and Codesensitization of Adenosine A2A Receptors and Dopamine D2 Receptors. <i>Journal of Biological Chemistry</i> , 2002, 277, 18091-18097.	3.4	450
3	Detection of heteromerization of more than two proteins by sequential BRET-FRET. <i>Nature Methods</i> , 2008, 5, 727-733.	19.0	269
4	Cell surface adenosine deaminase: Much more than an ectoenzyme. <i>Progress in Neurobiology</i> , 1997, 52, 283-294.	5.7	224
5	Cannabinoid Receptors CB1 and CB2 Form Functional Heteromers in Brain. <i>Journal of Biological Chemistry</i> , 2012, 287, 20851-20865.	3.4	196
6	Metabotropic Glutamate 1 \pm and Adenosine A1 Receptors Assemble into Functionally Interacting Complexes. <i>Journal of Biological Chemistry</i> , 2001, 276, 18345-18351.	3.4	170
7	Direct involvement of β -1 receptors in the dopamine D ₁ receptor-mediated effects of cocaine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18676-18681.	7.1	153
8	Adenosine deaminase affects ligand-induced signalling by interacting with cell surface adenosine receptors. <i>FEBS Letters</i> , 1996, 380, 219-223.	2.8	150
9	A ₁ Adenosine Receptors Accumulate in Neurodegenerative Structures in Alzheimer's Disease and Mediate Both Amyloid Precursor Protein Processing and Tau Phosphorylation and Translocation. <i>Brain Pathology</i> , 2003, 13, 440-451.	4.1	150
10	Homodimerization of adenosine A2A receptors: qualitative and quantitative assessment by fluorescence and bioluminescence energy transfer. <i>Journal of Neurochemistry</i> , 2003, 88, 726-734.	3.9	139
11	Marked changes in signal transduction upon heteromerization of dopamine D ₁ and histamine H ₃ receptors. <i>British Journal of Pharmacology</i> , 2009, 157, 64-75.	5.4	138
12	Allosteric interactions between agonists and antagonists within the adenosine A _{2A} receptor-dopamine D ₂ receptor heterotetramer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3609-18.	7.1	135
13	Circadian-Related Heteromerization of Adrenergic and Dopamine D4 Receptors Modulates Melatonin Synthesis and Release in the Pineal Gland. <i>PLoS Biology</i> , 2012, 10, e1001347.	5.6	132
14	Glutamate Released by Dendritic Cells as a Novel Modulator of T Cell Activation. <i>Journal of Immunology</i> , 2006, 177, 6695-6704.	0.8	130
15	Functional Selectivity of Allosteric Interactions within G Protein-Coupled Receptor Oligomers: The Dopamine D ₁ -D ₃ Receptor Heterotetramer. <i>Molecular Pharmacology</i> , 2014, 86, 417-429.	2.3	114
16	Group I Metabotropic Glutamate Receptors Mediate a Dual Role of Glutamate in T Cell Activation. <i>Journal of Biological Chemistry</i> , 2004, 279, 33352-33358.	3.4	113
17	Cocaine Inhibits Dopamine D2 Receptor Signaling via Sigma-1-D2 Receptor Heteromers. <i>PLoS ONE</i> , 2013, 8, e61245.	2.5	112
18	Dopamine D1-histamine H3 Receptor Heteromers Provide a Selective Link to MAPK Signaling in GABAergic Neurons of the Direct Striatal Pathway. <i>Journal of Biological Chemistry</i> , 2011, 286, 5846-5854.	3.4	109

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19	Detection of Heteromers Formed by Cannabinoid CB ₁ , Dopamine D ₂ , and Adenosine A _{2A} -G-Protein-Coupled Receptors by Combining Bimolecular Fluorescence Complementation and Bioluminescence Energy Transfer. <i>Scientific World Journal, The</i> , 2008, 8, 1088-1097.	2.1	105
20	Interactions between Intracellular Domains as Key Determinants of the Quaternary Structure and Function of Receptor Heteromers. <i>Journal of Biological Chemistry</i> , 2010, 285, 27346-27359.	3.4	102
21	The Adenosine A _{2A} Receptor Interacts with the Actin-binding Protein $\hat{\pm}$ -Actinin. <i>Journal of Biological Chemistry</i> , 2003, 278, 37545-37552.	3.4	100
22	Quaternary structure of a G-protein-coupled receptor heterotetramer in complex with Gi and Gs. <i>BMC Biology</i> , 2016, 14, 26.	3.8	97
23	Adenosine Deaminase and A ₁ Adenosine Receptors Internalize Together following Agonist-induced Receptor Desensitization. <i>Journal of Biological Chemistry</i> , 1998, 273, 17610-17617.	3.4	93
24	Comodulation of CXCR4 and CD26 in Human Lymphocytes. <i>Journal of Biological Chemistry</i> , 2001, 276, 19532-19539.	3.4	89
25	Involvement of Caveolin in Ligand-Induced Recruitment and Internalization of A ₁ Adenosine Receptor and Adenosine Deaminase in an Epithelial Cell Line. <i>Molecular Pharmacology</i> , 2001, 59, 1314-1323.	2.3	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. <i>Scientific World Journal, The</i> , 2007, 7, 48-57.	2.1	83
28	l-DOPA-treatment in primates disrupts the expression of A _{2A} adenosineâ€“CB ₁ cannabinoidâ€“D ₂ dopamine receptor heteromers in the caudate nucleus. <i>Neuropharmacology</i> , 2014, 79, 90-100.	4.1	83
29	Ligand-Induced Phosphorylation, Clustering, and Desensitization of A ₁ Adenosine Receptors. <i>Molecular Pharmacology</i> , 1997, 52, 788-797.	2.3	80
30	Up-regulation of the Kv3.4 potassium channel subunit in early stages of Alzheimer's disease. <i>Journal of Neurochemistry</i> , 2004, 91, 547-557.	3.9	78
31	l-DOPA disrupts adenosine A _{2A} â€“cannabinoid CB ₁ â€“dopamine D ₂ receptor heteromer cross-talk in the striatum of hemiparkinsonian rats: Biochemical and behavioral studies. <i>Experimental Neurology</i> , 2014, 253, 180-191.	4.1	77
32	The Two-State Dimer Receptor Model: A General Model for Receptor Dimers. <i>Molecular Pharmacology</i> , 2006, 69, 1905-1912.	2.3	76
33	Regulation of heptaspanning-membrane-receptor function by dimerization and clustering. <i>Trends in Biochemical Sciences</i> , 2003, 28, 238-243.	7.5	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. <i>BMC Biology</i> , 2018, 16, 24.	3.8	70
36	Cocaine Disrupts Histamine H ₃ Receptor Modulation of Dopamine D ₁ Receptor Signaling: \hat{f} -D ₁ -H ₃ Receptor Complexes as Key Targets for Reducing Cocaine's Effects. <i>Journal of Neuroscience</i> , 2014, 34, 3545-3558.	3.6	66

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37	Orexinâ€™Corticotropin-Releasing Factor Receptor Heteromers in the Ventral Tegmental Area as Targets for Cocaine. <i>Journal of Neuroscience</i> , 2015, 35, 6639-6653.	3.6	66
38	Ligand-induced caveolae-mediated internalization of A1 adenosine receptors: morphological evidence of endosomal sorting and receptor recycling. <i>Experimental Cell Research</i> , 2003, 285, 72-90.	2.6	65
39	Interactions between Calmodulin, Adenosine A2A, and Dopamine D2 Receptors. <i>Journal of Biological Chemistry</i> , 2009, 284, 28058-28068.	3.4	65
40	The Heat Shock Cognate Protein hsc73 Assembles with A 1 Adenosine Receptors To Form Functional Modules in the Cell Membrane. <i>Molecular and Cellular Biology</i> , 2000, 20, 5164-5174.	2.3	62
41	Dimer-based model for heptaspanning membrane receptors. <i>Trends in Biochemical Sciences</i> , 2005, 30, 360-366.	7.5	60
42	Adenosine deaminase potentiates the generation of effector, memory, and regulatory CD4+ T cells. <i>Journal of Leukocyte Biology</i> , 2010, 89, 127-136.	3.3	59
43	Adenosine Deaminase Interacts with A₁ Adenosine Receptors in Pig Brain Cortical Membranes. <i>Journal of Neurochemistry</i> , 1996, 66, 1675-1682.	3.9	58
44	Calcium mobilization in Jurkat cells via A2b adenosine receptors. <i>British Journal of Pharmacology</i> , 1997, 122, 1075-1082.	5.4	57
45	Regulation of epithelial and lymphocyte cell adhesion by adenosine deaminaseâ€™CD26 interaction. <i>Biochemical Journal</i> , 2002, 361, 203-209.	3.7	57
46	Molecular mechanisms involved in the adenosine A1 and A2A receptor-induced neuronal differentiation in neuroblastoma cells and striatal primary cultures. <i>Journal of Neurochemistry</i> , 2005, 92, 337-348.	3.9	56
47	Moonlighting Adenosine Deaminase: A Target Protein for Drug Development. <i>Medicinal Research Reviews</i> , 2015, 35, 85-125.	10.5	54
48	Molecular Evidence of Adenosine Deaminase Linking Adenosine A2A Receptor and CD26 Proteins. <i>Frontiers in Pharmacology</i> , 2018, 9, 106.	3.5	54
49	Intracellular Calcium Levels Determine Differential Modulation of Allosteric Interactions within G Protein-Coupled Receptor Heteromers. <i>Chemistry and Biology</i> , 2014, 21, 1546-1556.	6.0	51
50	Stronger Dopamine D1 Receptor-Mediated Neurotransmission in Dyskinesia. <i>Molecular Neurobiology</i> , 2015, 52, 1408-1420.	4.0	49
51	G Protein-Coupled Receptor Heteromers as New Targets for Drug Development. <i>Progress in Molecular Biology and Translational Science</i> , 2010, 91, 41-52.	1.7	46
52	Human adenosine deaminase as an allosteric modulator of human A₁ adenosine receptor: abolishment of negative cooperativity for [³ H](R)-â€™ia binding to the caudate nucleus. <i>Journal of Neurochemistry</i> , 2008, 107, 161-170.	3.9	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. <i>Molecular Neurobiology</i> , 2017, 54, 4537-4550.	4.0	44
54	A Significant Role of the Truncated Ghrelin Receptor GHS-R1b in Ghrelin-induced Signaling in Neurons. <i>Journal of Biological Chemistry</i> , 2016, 291, 13048-13062.	3.4	41

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55	Useful pharmacological parameters for G-protein-coupled receptor homodimers obtained from competition experiments. Agonist-antagonist binding modulation. <i>Biochemical Pharmacology</i> , 2009, 78, 1456-1463.	4.4	39
56	Actin-binding Protein β -Actinin-1 Interacts with the Metabotropic Glutamate Receptor Type 5b and Modulates the Cell Surface Expression and Function of the Receptor. <i>Journal of Biological Chemistry</i> , 2007, 282, 12143-12153.	3.4	37
57	The neuronal Ca ²⁺ -binding protein 2 (NECAB2) interacts with the adenosine A _{2A} receptor and modulates the cell surface expression and function of the receptor. <i>Molecular and Cellular Neurosciences</i> , 2007, 36, 1-12.	2.2	37
58	A _{2A} adenosine receptor ligand binding and signalling is allosterically modulated by adenosine deaminase. <i>Biochemical Journal</i> , 2011, 435, 701-709.	3.7	37
59	Modification of 5'-Nucleotidase Activity by Divalent Cations and Nucleotides. <i>Journal of Neurochemistry</i> , 1983, 40, 1205-1211.	3.9	36
60	The catalytic site structural gate of adenosine deaminase allosterically modulates ligand binding to adenosine receptors. <i>FASEB Journal</i> , 2013, 27, 1048-1061.	0.5	35
61	Regulation of epithelial and lymphocyte cell adhesion by adenosine deaminase-CD26 interaction. <i>Biochemical Journal</i> , 2002, 361, 203.	3.7	34
62	Functional μ -Opioid-Galanin Receptor Heteromers in the Ventral Tegmental Area. <i>Journal of Neuroscience</i> , 2017, 37, 1176-1186.	3.6	34
63	The Adenosine Receptors Present on the Plasma Membrane of Chromaffin Cells Are of the A _{2b} Subtype. <i>Journal of Neurochemistry</i> , 1992, 59, 425-431.	3.9	32
64	Novel pharmacological targets based on receptor heteromers. <i>Brain Research Reviews</i> , 2008, 58, 475-482.	9.0	32
65	Metabotropic glutamate type 1 receptor localizes in low-density caveolin-rich plasma membrane fractions. <i>Journal of Neurochemistry</i> , 2003, 86, 785-791.	3.9	31
66	Homodimerization of adenosine A ₁ receptors in brain cortex explains the biphasic effects of caffeine. <i>Neuropharmacology</i> , 2013, 71, 56-69.	4.1	30
67	Epidermal growth factor (EGF)-induced up-regulation and agonist- and antagonist-induced desensitization and internalization of A ₁ adenosine receptors in a pituitary-derived cell line. <i>Brain Research</i> , 1999, 816, 47-57.	2.2	29
68	The association of metabotropic glutamate receptor type 5 with the neuronal Ca ²⁺ -binding protein 2 modulates receptor function. <i>Journal of Neurochemistry</i> , 2009, 111, 555-567.	3.9	27
69	Mutual regulation between metabotropic glutamate type 1 receptor and caveolin proteins: from traffick to constitutive activity. <i>Experimental Cell Research</i> , 2004, 300, 23-34.	2.6	26
70	Adenosine deaminase enhances T cell response elicited by dendritic cells loaded with inactivated HIV. <i>Immunology and Cell Biology</i> , 2009, 87, 634-639.	2.3	26
71	Partners for Adenosine A ₁ Receptors. <i>Journal of Molecular Neuroscience</i> , 2005, 26, 221-232.	2.3	25
72	Heptaspanning Membrane Receptors and Cytoskeletal/Scaffolding Proteins: Focus on Adenosine, Dopamine, and Metabotropic Glutamate Receptor Function. <i>Journal of Molecular Neuroscience</i> , 2005, 26, 277-292.	2.3	25

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73	Immunological dysfunction in HIV-1 infected individuals caused by impairment of adenosine deaminase-induced costimulation of T cell activation. <i>Immunology</i> , 2009, 128, 393-404.	4.4	25
74	Characterization of adenosine receptors in brush-border membranes from pig kidney. <i>British Journal of Pharmacology</i> , 1992, 107, 671-678.	5.4	23
75	Adenosine Deaminase Enhances the Immunogenicity of Human Dendritic Cells from Healthy and HIV-Infected Individuals. <i>PLoS ONE</i> , 2012, 7, e51287.	2.5	21
76	Adenosine deaminase regulates Treg expression in autologous T cell-dendritic cell cocultures from patients infected with HIV-1. <i>Journal of Leukocyte Biology</i> , 2016, 99, 349-359.	3.3	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. <i>Journal of Neurochemistry</i> , 2002, 69, 2546-2554.	3.9	19
79	Adenosine Receptors in Myelin Fractions and Subtractions: The Effect of the Agonist (R)-Phenylisopropyladenosine on Myelin Membrane Microviscosity. <i>Journal of Neurochemistry</i> , 1991, 57, 1623-1629.	3.9	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. <i>European Journal of Pharmacology</i> , 1992, 225, 7-14.	2.6	15
81	Reinterpreting anomalous competitive binding experiments within G protein-coupled receptor homodimers using a dimer receptor model. <i>Pharmacological Research</i> , 2019, 139, 337-347.	7.1	15
82	G _i protein coupling to adenosine A ₁ receptor heteromers in human brain caudate nucleus. <i>Journal of Neurochemistry</i> , 2010, 114, 972-980.	3.9	14
83	Orexin A/Hypocretin Modulates Leptin Receptor-Mediated Signaling by Allosteric Modulations Mediated by the Ghrelin GHS-R1A Receptor in Hypothalamic Neurons. <i>Molecular Neurobiology</i> , 2018, 55, 4718-4730.	4.0	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. <i>Journal of Cellular Biochemistry</i> , 1991, 47, 278-288.	2.6	13
85	A Hybrid Indoloquinolizidine Peptide as Allosteric Modulator of Dopamine D1 Receptors. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 332, 876-885.	2.5	13
86	Adenine nucleotides and adenosine metabolism in pig kidney proximal tubule membranes. <i>Journal of Cellular Physiology</i> , 1993, 157, 77-83.	4.1	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. <i>Drug Development Research</i> , 2001, 52, 296-302.	2.9	11
89	Differential effect of amphetamine over the corticotropin-releasing factor CRF2 receptor, the orexin OX1 receptor and the CRF2-OX1 heteroreceptor complex. <i>Neuropharmacology</i> , 2019, 152, 102-111.	4.1	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. <i>Journal of Pharmaceutical Sciences</i> , 1990, 79, 133-137.	3.3	10

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91	The distribution of A1 adenosine receptor and 5?-nucleotidase in pig brain cortex subcellular fractions. <i>Neurochemical Research</i> , 1992, 17, 129-139.	3.3	10
92	Role of Histidine Residues in Agonist and Antagonist Binding Sites of A1 Adenosine Receptor. <i>Journal of Neurochemistry</i> , 1993, 60, 1525-1533.	3.9	10
93	Detection of Receptor Heteromers Involving Dopamine Receptors by the Sequential BRET-FRET Technology. <i>Methods in Molecular Biology</i> , 2013, 964, 95-105.	0.9	10
94	Theoretical Approximation to the Reaction Mechanism of Adenosine Deaminase. <i>QSAR and Combinatorial Science</i> , 1989, 8, 109-114.	1.2	9
95	Ab initio study of the protonation and the tautomerism of the 7-aminopyrazolopyrimidine molecule. <i>Journal of Organic Chemistry</i> , 1990, 55, 753-756.	3.2	9
96	N-ethylmaleimide affects agonist binding to A1 adenosine receptors differently in the presence than in the absence of ligand. <i>Biochemical and Biophysical Research Communications</i> , 1991, 181, 213-218.	2.1	9
97	Solubilization and molecular characterization of the nitrobenzylthioinosine binding sites from pig kidney brush-border membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1994, 1191, 94-102.	2.6	9
98	Modulation of G4 Cell Cycle via A1 Adenosine Receptors. <i>Journal of Neurochemistry</i> , 2002, 69, 2145-2154.	3.9	8
99	Isolation and characterization of bovine brain myelin distribution of 5?-nucleotidase. <i>Neurochemical Research</i> , 1988, 13, 349-357.	3.3	7
100	Adenosine metabolism in kidney slices under normoxic conditions. <i>Journal of Cellular Physiology</i> , 1990, 143, 344-351.	4.1	5
101	Localization of 5?-nucleotidase in bovine brain myelin fraction and myelin subfractions. <i>Neurochemical Research</i> , 1988, 13, 359-368.	3.3	4
102	Adenosine-glutamate receptor-receptor interactions in the central nervous system. <i>Drug Development Research</i> , 2001, 52, 316-322.	2.9	4
103	Dipropylcyclopentylxanthine triggers apoptosis in Jurkat T cells by a receptor-independent mechanism. <i>Cell Death and Differentiation</i> , 1997, 4, 639-646.	11.2	3
104	A1 Adenosine receptors can occur manifesting two kinetic components of 8-cyclopentyl-1,3-[3H]dipropylxanthine ([3H]DPCPX) binding. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1994, 349, 485-491.	3.0	2