

# Gemma Navarro

## List of Publications by Citations

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95  
papers

3,493  
citations

36  
h-index

56  
g-index

101  
ext. papers

4,188  
ext. citations

5.9  
avg, IF

5.22  
L-index

#	Paper	IF	Citations
95	Detection of heteromerization of more than two proteins by sequential BRET-FRET. <i>Nature Methods</i> , <b>2008</b> , 5, 727-33	21.6	241
94	Direct involvement of sigma-1 receptors in the dopamine D1 receptor-mediated effects of cocaine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 18676-81	11.5	135
93	Cognitive Impairment Induced by Delta9-tetrahydrocannabinol Occurs through Heteromers between Cannabinoid CB1 and Serotonin 5-HT2A Receptors. <i>PLoS Biology</i> , <b>2015</b> , 13, e1002194	9.7	122
92	Allosteric interactions between agonists and antagonists within the adenosine A2A receptor-dopamine D2 receptor heterotetramer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E3609-18	11.5	107
91	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> , <b>2011</b> , 286, 5846-54	5.4	98
90	Cocaine inhibits dopamine D2 receptor signaling via sigma-1-D2 receptor heteromers. <i>PLoS ONE</i> , <b>2013</b> , 8, e61245	3.7	96
89	A1R-A2AR heteromers coupled to Gs and G i/o proteins modulate GABA transport into astrocytes. <i>Purinergic Signalling</i> , <b>2013</b> , 9, 433-49	3.8	93
88	Binding and Signaling Studies Disclose a Potential Allosteric Site for Cannabidiol in Cannabinoid CB Receptors. <i>Frontiers in Pharmacology</i> , <b>2017</b> , 8, 744	5.6	93
87	Functional selectivity of allosteric interactions within G protein-coupled receptor oligomers: the dopamine D1-D3 receptor heterotetramer. <i>Molecular Pharmacology</i> , <b>2014</b> , 86, 417-29	4.3	93
86	Adenosine-cannabinoid receptor interactions. Implications for striatal function. <i>British Journal of Pharmacology</i> , <b>2010</b> , 160, 443-53	8.6	90
85	Quaternary structure of a G-protein-coupled receptor heterotetramer in complex with Gi and Gs. <i>BMC Biology</i> , <b>2016</b> , 14, 26	7.3	88
84	Interactions between intracellular domains as key determinants of the quaternary structure and function of receptor heteromers. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 27346-27359	5.4	86
83	Detection of heteromers formed by cannabinoid CB1, dopamine D2, and adenosine A2A G-protein-coupled receptors by combining bimolecular fluorescence complementation and bioluminescence energy transfer. <i>Scientific World Journal, The</i> , <b>2008</b> , 8, 1088-97	2.2	85
82	Basic Pharmacological and Structural Evidence for Class A G-Protein-Coupled Receptor Heteromerization. <i>Frontiers in Pharmacology</i> , <b>2016</b> , 7, 76	5.6	82
81	Targeting Cannabinoid CB2 Receptors in the Central Nervous System. Medicinal Chemistry Approaches with Focus on Neurodegenerative Disorders. <i>Frontiers in Neuroscience</i> , <b>2016</b> , 10, 406	5.1	79
80	Evidence for functional pre-coupled complexes of receptor heteromers and adenylyl cyclase. <i>Nature Communications</i> , <b>2018</b> , 9, 1242	17.4	76
79	Allosteric mechanisms within the adenosine A2A-dopamine D2 receptor heterotetramer. <i>Neuropharmacology</i> , <b>2016</b> , 104, 154-60	5.5	66

78	Receptor-heteromer mediated regulation of endocannabinoid signaling in activated microglia. Role of CB and CB receptors and relevance for Alzheimer's disease and levodopa-induced dyskinesia. <i>Brain, Behavior, and Immunity</i> , <b>2018</b> , 67, 139-151	16.6	65
77	CB1 and GPR55 receptors are co-expressed and form heteromers in rat and monkey striatum. <i>Experimental Neurology</i> , <b>2014</b> , 261, 44-52	5.7	60
76	Cannabigerol Action at Cannabinoid CB and CB Receptors and at CB-CB Heteroreceptor Complexes. <i>Frontiers in Pharmacology</i> , <b>2018</b> , 9, 632	5.6	58
75	Adenosine A receptor ligand recognition and signaling is blocked by A receptors. <i>Oncotarget</i> , <b>2018</b> , 9, 13593-13611	3.3	55
74	Interactions between calmodulin, adenosine A2A, and dopamine D2 receptors. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 28058-28068	5.4	53
73	Cocaine disrupts histamine H3 receptor modulation of dopamine D1 receptor signaling: $\alpha$ -D1-H3 receptor complexes as key targets for reducing cocaine's effects. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 3545-3558	6.6	52
72	Cannabidiol skews biased agonism at cannabinoid CB and CB receptors with smaller effect in CB-CB heteroreceptor complexes. <i>Biochemical Pharmacology</i> , <b>2018</b> , 157, 148-158	6	51
71	Orexin-corticotropin-releasing factor receptor heteromers in the ventral tegmental area as targets for cocaine. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 6639-53	6.6	50
70	Structures for G-Protein-Coupled Receptor Tetramers in Complex with G Proteins. <i>Trends in Biochemical Sciences</i> , <b>2015</b> , 40, 548-551	10.3	50
69	Purinergic signaling in Parkinson's disease. Relevance for treatment. <i>Neuropharmacology</i> , <b>2016</b> , 104, 161-8	5.5	46
68	Essential Control of the Function of the Striatopallidal Neuron by Pre-coupled Complexes of Adenosine A-Dopamine D Receptor Heterotetramers and Adenylyl Cyclase. <i>Frontiers in Pharmacology</i> , <b>2018</b> , 9, 243	5.6	45
67	Cross-communication between G and G in a G-protein-coupled receptor heterotetramer guided by a receptor C-terminal domain. <i>BMC Biology</i> , <b>2018</b> , 16, 24	7.3	45
66	Increase in A2A receptors in the nucleus accumbens after extended cocaine self-administration and its disappearance after cocaine withdrawal. <i>Brain Research</i> , <b>2007</b> , 1143, 208-20	3.7	45
65	Dopamine D2 and angiotensin II type 1 receptors form functional heteromers in rat striatum. <i>Biochemical Pharmacology</i> , <b>2015</b> , 96, 131-42	6	44
64	G protein-coupled receptor heteromers as new targets for drug development. <i>Progress in Molecular Biology and Translational Science</i> , <b>2010</b> , 91, 41-52	4	40
63	Adenosine A(2A) Receptors and A(2A) Receptor Heteromers as Key Players in Striatal Function. <i>Frontiers in Neuroanatomy</i> , <b>2011</b> , 5, 36	3.6	39
62	CCR5/CD4/CXCR4 oligomerization prevents HIV-1 gp120IIIB binding to the cell surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E1960-9	11.5	37
61	Intracellular calcium levels determine differential modulation of allosteric interactions within G protein-coupled receptor heteromers. <i>Chemistry and Biology</i> , <b>2014</b> , 21, 1546-56		37

60	Dynamic regulation of CXCR1 and CXCR2 homo- and heterodimers. <i>Journal of Immunology</i> , <b>2009</b> , 183, 7337-46	5.3	37
59	Stronger Dopamine D1 Receptor-Mediated Neurotransmission in Dyskinesia. <i>Molecular Neurobiology</i> , <b>2015</b> , 52, 1408-1420	6.2	36
58	Adenosine A Receptor Antagonists in Neurodegenerative Diseases: Huge Potential and Huge Challenges. <i>Frontiers in Psychiatry</i> , <b>2018</b> , 9, 68	5	34
57	Molecular and functional interaction between GPR18 and cannabinoid CB G-protein-coupled receptors. Relevance in neurodegenerative diseases. <i>Biochemical Pharmacology</i> , <b>2018</b> , 157, 169-179	6	33
56	A Significant Role of the Truncated Ghrelin Receptor GHS-R1b in Ghrelin-induced Signaling in Neurons. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 13048-62	5.4	32
55	Understanding the Role of Adenosine A2AR Heteroreceptor Complexes in Neurodegeneration and Neuroinflammation. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 43	5.1	31
54	Functional Divergence in the Role of N-Linked Glycosylation in Smoothed Signaling. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005473	6	31
53	Potential of GPCRs to modulate MAPK and mTOR pathways in Alzheimer's disease. <i>Progress in Neurobiology</i> , <b>2017</b> , 149-150, 21-38	10.9	30
52	Resveratrol and Related Stilbenoids, Nutraceutical/Dietary Complements with Health-Promoting Actions: Industrial Production, Safety, and the Search for Mode of Action. <i>Comprehensive Reviews in Food Science and Food Safety</i> , <b>2018</b> , 17, 808-826	16.4	29
51	Heteroreceptor Complexes Formed by Dopamine D, Histamine H, and N-Methyl-D-Aspartate Glutamate Receptors as Targets to Prevent Neuronal Death in Alzheimer's Disease. <i>Molecular Neurobiology</i> , <b>2017</b> , 54, 4537-4550	6.2	28
50	Alterations in Gene and Protein Expression of Cannabinoid CB and GPR55 Receptors in the Dorsolateral Prefrontal Cortex of Suicide Victims. <i>Neurotherapeutics</i> , <b>2018</b> , 15, 796-806	6.4	27
49	Evidence for the heterotetrameric structure of the adenosine A2A-dopamine D2 receptor complex. <i>Biochemical Society Transactions</i> , <b>2016</b> , 44, 595-600	5.1	26
48	NCS-1 associates with adenosine A(2A) receptors and modulates receptor function. <i>Frontiers in Molecular Neuroscience</i> , <b>2012</b> , 5, 53	6.1	25
47	Disruption of a dopamine receptor complex amplifies the actions of cocaine. <i>European Neuropsychopharmacology</i> , <b>2016</b> , 26, 1366-1377	1.2	25
46	Chromenopyrazole, a Versatile Cannabinoid Scaffold with in Vivo Activity in a Model of Multiple Sclerosis. <i>Journal of Medicinal Chemistry</i> , <b>2016</b> , 59, 6753-6771	8.3	24
45	Cocaine produces D2R-mediated conformational changes in the adenosine A(2A)R-dopamine D2R heteromer. <i>Biochemical and Biophysical Research Communications</i> , <b>2010</b> , 394, 988-92	3.4	23
44	Biased receptor functionality versus biased agonism in G-protein-coupled receptors. <i>Biomolecular Concepts</i> , <b>2018</b> , 9, 143-154	3.7	23
43	Post-translational membrane insertion of tail-anchored transmembrane EF-hand Ca <sup>2+</sup> sensor calneurons requires the TRC40/Asna1 protein chaperone. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 36782-76	5.4	22

42	Adenosine A Receptor Antagonists Affects NMDA Glutamate Receptor Function. Potential to Address Neurodegeneration in Alzheimer's Disease. <i>Cells</i> , <b>2020</b> , 9,	7.9	20
41	Calcium-mediated modulation of the quaternary structure and function of adenosine A2A-dopamine D2 receptor heteromers. <i>Current Opinion in Pharmacology</i> , <b>2010</b> , 10, 67-72	5.1	20
40	Dopamine in Health and Disease: Much More Than a Neurotransmitter. <i>Biomedicines</i> , <b>2021</b> , 9,	4.8	20
39	G-protein-coupled receptor heteromers as key players in the molecular architecture of the central nervous system. <i>CNS Neuroscience and Therapeutics</i> , <b>2014</b> , 20, 703-9	6.8	17
38	Two Affinity Sites of the Cannabinoid Subtype 2 Receptor Identified by a Novel Homogeneous Binding Assay. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2016</b> , 358, 580-7	4.7	17
37	Increased expression of cannabinoid CB and serotonin 5-HT heteroreceptor complexes in a model of newborn hypoxic-ischemic brain damage. <i>Neuropharmacology</i> , <b>2019</b> , 152, 58-66	5.5	16
36	A and A adenosine receptors: The extracellular loop 2 determines high (A) or low affinity (A) for adenosine. <i>Biochemical Pharmacology</i> , <b>2020</b> , 172, 113718	6	16
35	SARS-CoV-2 as a Factor to Disbalance the Renin-Angiotensin System: A Suspect in the Case of Exacerbated IL-6 Production. <i>Journal of Immunology</i> , <b>2020</b> , 205, 1198-1206	5.3	16
34	Adenosine deaminase regulates Treg expression in autologous T cell-dendritic cell cocultures from patients infected with HIV-1. <i>Journal of Leukocyte Biology</i> , <b>2016</b> , 99, 349-59	6.5	15
33	Targeting CB and GPR55 Endocannabinoid Receptors as a Potential Neuroprotective Approach for Parkinson's Disease. <i>Molecular Neurobiology</i> , <b>2019</b> , 56, 5900-5910	6.2	15
32	Glucocerebrosidase Mutations and Synucleinopathies. Potential Role of Sterylglucosides and Relevance of Studying Both GBA1 and GBA2 Genes. <i>Frontiers in Neuroanatomy</i> , <b>2018</b> , 12, 52	3.6	15
31	Modulation of GABA transport by adenosine A1R-A2AR heteromers, which are coupled to both Gs- and G(i/o)-proteins. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 15629-39	6.6	15
30	A new D $\mu$ Dopamine receptor agonist allosterically modulates A(2A) adenosine receptor signalling by interacting with the A(2A)/D $\mu$ receptor heteromer. <i>Cellular Signalling</i> , <b>2012</b> , 24, 951-60	4.9	14
29	Potential of caveolae in the therapy of cardiovascular and neurological diseases. <i>Frontiers in Physiology</i> , <b>2014</b> , 5, 370	4.6	13
28	Discovery of Homobivalent Bitopic Ligands of the Cannabinoid CB Receptor*. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 15839-15842	4.8	12
27	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> , <b>2018</b> , 55, 4718-4730	6.2	11
26	Cocaine Blocks Effects of Hunger Hormone, Ghrelin, Via Interaction with Neuronal Sigma-1 Receptors. <i>Molecular Neurobiology</i> , <b>2019</b> , 56, 1196-1210	6.2	10
25	-Methyl-D-Aspartate Receptor Link to the MAP Kinase Pathway in Cortical and Hippocampal Neurons and Microglia Is Dependent on Calcium Sensors and Is Blocked by $\beta$ Synuclein, Tau, and Phospho-Tau in Non-transgenic and Transgenic APP Mice. <i>Frontiers in Molecular Neuroscience</i> , <b>2018</b> , 11, 273	6.1	10

24	A genomics approach identifies selective effects of trans-resveratrol in cerebral cortex neuron and glia gene expression. <i>PLoS ONE</i> , <b>2017</b> , 12, e0176067	3.7	9
23	Expression of Melatonin and Dopamine D Receptor Heteromers in Eye Ciliary Body Epithelial Cells and Negative Correlation with Ocular Hypertension. <i>Cells</i> , <b>2020</b> , 9,	7.9	8
22	Cocaine Effects on Dopaminergic Transmission Depend on a Balance between Sigma-1 and Sigma-2 Receptor Expression. <i>Frontiers in Molecular Neuroscience</i> , <b>2018</b> , 11, 17	6.1	8
21	Neuronal Calcium and cAMP Cross-Talk Mediated by Cannabinoid CB Receptor and EF-Hand Calcium Sensor Interactions. <i>Frontiers in Cell and Developmental Biology</i> , <b>2018</b> , 6, 67	5.7	7
20	Production of functional recombinant G-protein coupled receptors for heteromerization studies. <i>Journal of Neuroscience Methods</i> , <b>2011</b> , 199, 258-64	3	7
19	Microglial Adenosine Receptors: From Preconditioning to Modulating the M1/M2 Balance in Activated Cells. <i>Cells</i> , <b>2021</b> , 10,	7.9	7
18	Differential effect of amphetamine over the corticotropin-releasing factor CRF receptor, the orexin OX receptor and the CRF-OX heteroreceptor complex. <i>Neuropharmacology</i> , <b>2019</b> , 152, 102-111	5.5	7
17	Genes Implicated in Familial Parkinson's Disease Provide a Dual Picture of Nigral Dopaminergic Neurodegeneration with Mitochondria Taking Center Stage. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	6
16	Functional Complexes of Angiotensin-Converting Enzyme 2 and Renin-Angiotensin System Receptors: Expression in Adult but Not Fetal Lung Tissue. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	5
15	Hints on the Lateralization of Dopamine Binding to D1 Receptors in Rat Striatum. <i>Molecular Neurobiology</i> , <b>2016</b> , 53, 5436-45	6.2	5
14	The Epigenetic Cytocrin Pathway to the Nucleus. Epigenetic Factors, Epigenetic Mediators, and Epigenetic Traits. A Biochemist Perspective. <i>Frontiers in Genetics</i> , <b>2017</b> , 8, 179	4.5	4
13	Adenosine Receptor Antagonists to Combat Cancer and to Boost Anti-Cancer Chemotherapy and Immunotherapy. <i>Cells</i> , <b>2021</b> , 10,	7.9	3
12	Detection, Analysis, and Quantification of GPCR Homo- and Heteroreceptor Complexes in Specific Neuronal Cell Populations Using the In Situ Proximity Ligation Assay. <i>Neuromethods</i> , <b>2018</b> , 299-315	0.4	3
11	The meaning of the Michaelis-Menten constant: Km describes a steady-state		3
10	Cuprizone-Induced Neurotoxicity in Human Neural Cell Lines Is Mediated by a Reversible Mitochondrial Dysfunction: Relevance for Demyelination Models. <i>Brain Sciences</i> , <b>2021</b> , 11,	3.4	3
9	Real-time G-protein-coupled receptor imaging to understand and quantify receptor dynamics. <i>Scientific World Journal, The</i> , <b>2011</b> , 11, 1995-2010	2.2	2
8	Adenosine A and A Receptors Are Able to Interact with Each Other. A Further Piece in the Puzzle of Adenosine Receptor-Mediated Signaling. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	2
7	Antioxidant Supplements versus Health Benefits of Brief/Intermittent Exposure to Potentially Toxic Physical or Chemical Agents. <i>Current Issues in Molecular Biology</i> , <b>2021</b> , 43, 650-664	2.9	2

6	Methods to Identify the Signature of Trimers Formed by Three G Protein-Coupled Receptors or by Two G Protein-Coupled and One Ionotropic Receptor with Special Emphasis in the Functional Role in the Central Nervous System. <i>Neuromethods</i> , <b>2018</b> , 187-203	0.4	1
5	Heteroreceptor Complexes Implicated in Parkinson's Disease <b>2017</b> , 477-501		1
4	Usefulness of identifying G-protein-coupled receptor dimers for diagnosis and therapy of neurodegenerative diseases and of gliomas. <i>Histology and Histopathology</i> , <b>2018</b> , 33, 909-917	1.4	1
3	Adrenergic-melatonin heteroreceptor complexes are key in controlling ion homeostasis and intraocular eye pressure and their disruption contributes to hypertensive glaucoma		1
2	Identification of a Tool Compound to Study the Mechanisms of Functional Selectivity between D2 and D3 Dopamine Receptors. <i>ACS Omega</i> , <b>2018</b> , 3, 17368-17375	3.9	1
1	Identification of the Ghrelin and Cannabinoid CB Receptor Heteromer Functionality and Marked Upregulation in Striatal Neurons from Offspring of Mice under a High-Fat Diet. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1