Jesús Giraldo

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Characterization of the Calcium-mediated Response to Alkaline Stress in Saccharomyces cerevisiae. Journal of Biological Chemistry, 2004, 279, 43614-43624.	1.6	180
2	Pharmacological properties of S1RA, a new sigmaâ€1 receptor antagonist that inhibits neuropathic pain and activityâ€induced spinal sensitization. British Journal of Pharmacology, 2012, 166, 2289-2306.	2.7	159
3	An allosteric modulator to control endogenous G protein-coupled receptors with light. Nature Chemical Biology, 2014, 10, 813-815.	3.9	147
4	Role of Elastin in Spontaneously Hypertensive Rat Small Mesenteric Artery Remodelling. Journal of Physiology, 2003, 552, 185-195.	1.3	122
5	Assessing the (a)symmetry of concentration-effect curves. , 2002, 95, 21-45.		121
6	Chronic 5-HT6 receptor modulation by E-6837 induces hypophagia and sustained weight loss in diet-induced obese rats. British Journal of Pharmacology, 2006, 148, 973-983.	2.7	85
7	Chromosomal Instability in Amniocytes From Fetuses of Mothers Who Smoke. JAMA - Journal of the American Medical Association, 2005, 293, 1212.	3.8	75
8	Increased Superoxide Anion Production by Interleukin-1β Impairs Nitric Oxide-Mediated Relaxation in Resistance Arteries. Journal of Pharmacology and Experimental Therapeutics, 2006, 316, 42-52.	1.3	69
9	The asymmetric/symmetric activation of GPCR dimers as a possible mechanistic rationale for multiple signalling pathways. Trends in Pharmacological Sciences, 2010, 31, 15-21.	4.0	69
10	OptoGluNAM4.1, a Photoswitchable Allosteric Antagonist for Real-Time Control of mGlu 4 Receptor Activity. Cell Chemical Biology, 2016, 23, 929-934.	2.5	68
11	Pharmacological evidence for a metabotropic glutamate receptor heterodimer in neuronal cells. ELife, 2017, 6, .	2.8	63
12	Evidence for Distinct Antagonist-Revealed Functional States of 5-Hydroxytryptamine _{2A} Receptor Homodimers. Molecular Pharmacology, 2009, 75, 1380-1391.	1.0	60
13	Illuminating Phenylazopyridines To Photoswitch Metabotropic Glutamate Receptors: From the Flask to the Animals. ACS Central Science, 2017, 3, 81-91.	5.3	58
14	Dynamic modulation of inflammatory pain-related affective and sensory symptoms by optical control of amygdala metabotropic glutamate receptor 4. Molecular Psychiatry, 2018, 23, 509-520.	4.1	56
15	Overlapping binding sites drive allosteric agonism and positive cooperativity in type 4 metabotropic glutamate receptors. FASEB Journal, 2015, 29, 116-130.	0.2	54
16	A Genomewide Screen for Tolerance to Cationic Drugs Reveals Genes Important for Potassium Homeostasis in Saccharomyces cerevisiae. Eukaryotic Cell, 2011, 10, 1241-1250.	3.4	53
17	Optical control of pain in vivo with a photoactive mGlu5 receptor negative allosteric modulator. ELife, 2017, 6, .	2.8	48
18	Allosteric control of an asymmetric transduction in a G protein-coupled receptor heterodimer. ELife, 2017, 6, .	2.8	48

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19	Quantifying conformational changes in GPCRs: glimpse of a common functional mechanism. BMC Bioinformatics, 2015, 16, 124.	1.2	45
20	Advanced age increases chromosome structural abnormalities in human spermatozoa. European Journal of Human Genetics, 2011, 19, 145-151.	1.4	42
21	Artificial Intelligence: A Novel Approach for Drug Discovery. Trends in Pharmacological Sciences, 2019, 40, 550-551.	4.0	38
22	GNAO1 encephalopathy: further delineation of a severe neurodevelopmental syndrome affecting females. Orphanet Journal of Rare Diseases, 2016, 11, 38.	1.2	36
23	Structural insights into positive and negative allosteric regulation of a G protein-coupled receptor through protein-lipid interactions. Scientific Reports, 2018, 8, 4456.	1.6	35
24	Transient middle cerebral artery occlusion causes different structural, mechanical, and myogenic alterations in normotensive and hypertensive rats. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H628-H635.	1.5	34
25	Effect of N ^G â€nitroâ€Lâ€arginine methylester (Lâ€NAME) on functional and biochemical α ₁ â€adrenoceptorâ€mediated responses in rat blood vessels. British Journal of Pharmacology, 1996, 117, 757-763.	2.7	31
26	Structural Assessment of Agonist Efficacy in the μ-Opioid Receptor: Morphine and Fentanyl Elicit Different Activation Patterns. Journal of Chemical Information and Modeling, 2021, 61, 1251-1274.	2.5	31
27	On the fitting of binding data when receptor dimerization is suspected. British Journal of Pharmacology, 2008, 155, 17-23.	2.7	28
28	Computational Analysis of Negative and Positive Allosteric Modulator Binding and Function in Metabotropic Glutamate Receptor 5 (In)Activation. Journal of Chemical Information and Modeling, 2014, 54, 1476-1487.	2.5	28
29	Distinct Dopamine D2 Receptor Antagonists Differentially Impact D2 Receptor Oligomerization. International Journal of Molecular Sciences, 2019, 20, 1686.	1.8	27
30	α 1 -Adrenoceptor vasoconstriction in the tail artery during ageing. British Journal of Pharmacology, 1997, 121, 1017-1023.	2.7	25
31	Empirical models and Hill coefficients. Trends in Pharmacological Sciences, 2003, 24, 63-65.	4.0	25
32	The catalytic power of enzymes: Conformational selection or transition state stabilization?. FEBS Letters, 2006, 580, 2170-2177.	1.3	25
33	Modeling the Binding and Function of Metabotropic Glutamate Receptors. Journal of Pharmacology and Experimental Therapeutics, 2008, 325, 443-456.	1.3	24
34	Mechanistic analysis of the function of agonists and allosteric modulators: reconciling twoâ€state and operational models. British Journal of Pharmacology, 2013, 169, 1189-1202.	2.7	24
35	A Complementary Scale of Biased Agonism for Agonists with Differing Maximal Responses. Scientific Reports, 2017, 7, 15389.	1.6	24
36	Modelling the interdependence between the stoichiometry of receptor oligomerization and ligand binding for a coexisting dimer/tetramer receptor system. British Journal of Pharmacology, 2009, 156, 28-35.	2.7	22

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37	How inverse can a neutral antagonist be? Strategic questions after the rimonabant issue. Drug Discovery Today, 2010, 15, 411-415.	3.2	22
38	Assessing Receptor Affinity for Inverse Agonists: Schild and Cheng-Prusoff Methods Revisited. Current Drug Targets, 2007, 8, 197-202.	1.0	21
39	Synthesis toward Bivalent Ligands for the Dopamine D ₂ and Metabotropic Glutamate 5 Receptors. Journal of Medicinal Chemistry, 2018, 61, 8212-8225.	2.9	21
40	A method for the quantification of biased signalling at constitutively active receptors. British Journal of Pharmacology, 2018, 175, 2046-2062.	2.7	20
41	Insights into adenosine A2AÂreceptor activation through cooperative modulation of agonist and allosteric lipid interactions. PLoS Computational Biology, 2020, 16, e1007818.	1.5	20
42	Helix 3 acts as a conformational hinge in Class A GPCR activation: An analysis of interhelical interaction energies in crystal structures. Journal of Structural Biology, 2015, 192, 545-553.	1.3	18
43	Paternal Age and Numerical Chromosome Abnormalities in Human Spermatozoa. Cytogenetic and Genome Research, 2016, 148, 241-248.	0.6	18
44	Shining Light on an mGlu5 Photoswitchable NAM: A Theoretical Perspective. Current Neuropharmacology, 2016, 14, 441-454.	1.4	18
45	Modelling the changes due to the endothelium and hypertension in the alpha-adenoreceptor-mediated responses of rat aorta. Autonomic and Autacoid Pharmacology, 1999, 19, 219-228.	0.7	17
46	Evaluation of Operational Models of Agonism and Allosterism at Receptors with Multiple Orthosteric Binding Sites. Molecular Pharmacology, 2020, 97, 35-45.	1.0	17
47	Revealing the Mechanism of Agonist-Mediated Cannabinoid Receptor 1 (CB1) Activation and Phospholipid-Mediated Allosteric Modulation. Journal of Medicinal Chemistry, 2019, 62, 5638-5654.	2.9	16
48	Endothelial modulation of α ₁ â€adrenoceptor contractile responses in the tail artery of spontaneously hypertensive rats. British Journal of Pharmacology, 1996, 119, 765-771.	2.7	15
49	Selective Protonation of Acidic Residues Triggers Opsin Activation. Journal of Physical Chemistry B, 2015, 119, 9510-9519.	1.2	15
50	Remote local photoactivation of morphine produces analgesia without opioidâ€related adverse effects. British Journal of Pharmacology, 2023, 180, 958-974.	2.7	15
51	Analysis of agonism at functional prejunctional of rat vas deferens using operational and null approaches. European Journal of Pharmacology, 1994, 258, 229-238.	1.7	14
52	Use of the operational model of agonism and [3H]prazosin binding to assess altered responsiveness of α1-adrenoceptors in the vas deferens of spontaneously hypertensive rat. Naunyn-Schmiedeberg's Archives of Pharmacology, 1997, 356, 383-391.	1.4	14
53	Rational design of a peptide capture agent for CXCL8 based on a model of the CXCL8:CXCR1 complex. RSC Advances, 2015, 5, 25657-25668.	1.7	14
54	Positional isomers of bispyridine benzene derivatives induce efficacy changes on mGlu5 negative allosteric modulation. European Journal of Medicinal Chemistry, 2017, 127, 567-576.	2.6	14

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55	Analysis of positive and negative allosteric modulation in metabotropic glutamate receptors 4 and 5 with a dual ligand. Scientific Reports, 2017, 7, 4944.	1.6	14
56	An operational model for GPCR homodimers and its application in the analysis of biased signaling. Drug Discovery Today, 2018, 23, 1591-1595.	3.2	14
57	Follow-Up Genotoxic Study: Chromosome Damage Two and Six Years after Exposure to the Prestige Oil Spill. PLoS ONE, 2015, 10, e0132413.	1.1	14
58	Agonist induction, conformational selection, and mutant receptors. FEBS Letters, 2004, 556, 13-18.	1.3	13
59	A double effect molecular switch leads to a novel potent negative allosteric modulator of metabotropic glutamate receptor 5. MedChemComm, 2014, 5, 1548-1554.	3.5	12
60	The effect of the molecular mechanism of G protein-coupled receptor activation on the process of signal transduction. European Journal of Pharmacology, 1997, 335, 73-87.	1.7	11
61	Operational models of allosteric modulation: caution is needed. Trends in Pharmacological Sciences, 2015, 36, 1-2.	4.0	11
62	The influence of alignment-free sequence representations on the semi-supervised classification of class C G protein-coupled receptors. Medical and Biological Engineering and Computing, 2015, 53, 137-149.	1.6	11
63	Angiotensin II type 1/adenosine A 2A receptor oligomers: a novel target for tardive dyskinesia. Scientific Reports, 2017, 7, 1857.	1.6	11
64	Text mining and expert curation to develop a database on psychiatric diseases and their genes. Database: the Journal of Biological Databases and Curation, 2017, 2017, .	1.4	11
65	Can Adding Constitutive Receptor Activity Redefine Biased Signaling Quantification?. Trends in Pharmacological Sciences, 2019, 40, 156-160.	4.0	11
66	Multiple active receptor conformation, agonist efficacy and maximum effect of the system: the conformation-based operational model of agonism. Drug Discovery Today, 2013, 18, 365-371.	3.2	10
67	Ecophysiological significance of scale-dependent patterns in prokaryotic genomes unveiled by a combination of statistic and genometric analyses. Genomics, 2008, 91, 538-543.	1.3	9
68	Integrated Synthetic, Pharmacological, and Computational Investigation of <i>cis</i> â€2â€(3,5â€Dichlorophenylcarbamoyl)cyclohexanecarboxylic Acid Enantiomers As Positive Allosteric Modulators of Metabotropic Glutamate Receptor Subtypeâ€4. ChemMedChem, 2011, 6, 131-140.	1.6	9
69	Head Circumference Growth Function as a Marker of Neurological Impairment in a Cohort of Microcephalic Infants and Children. Neuropediatrics, 2012, 43, 271-274.	0.3	8
70	Chromosomal Bands Affected by Acute Oil Exposure and DNA Repair Errors. PLoS ONE, 2013, 8, e81276.	1.1	8
71	Label noise in subtype discrimination of class C G protein-coupled receptors: A systematic approach to the analysis of classification errors. BMC Bioinformatics, 2015, 16, 314.	1.2	8
72	Persistence of Breakage in Specific Chromosome Bands 6 Years after Acute Exposure to Oil. PLoS ONE, 2016, 11, e0159404.	1.1	8

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73	Adrenergic and purinergic components in bisected vas deferens from spontaneously hypertensive rats. British Journal of Pharmacology, 1999, 128, 873-880.	2.7	7
74	Modeling Cooperativity Effects in Dimeric G Protein-Coupled Receptors. Progress in Molecular Biology and Translational Science, 2013, 115, 349-373.	0.9	7
75	Have many estimates of efficacy and affinity been misled? Revisiting the operational model of agonism. Drug Discovery Today, 2016, 21, 1735-1739.	3.2	7
76	Systematic Analysis of Primary Sequence Domain Segments for the Discrimination Between Class C GPCR Subtypes. Interdisciplinary Sciences, Computational Life Sciences, 2018, 10, 43-52.	2.2	7
77	Mathematical Modeling of G Protein-Coupled Receptor Function: What Can We Learn from Empirical and Mechanistic Models?. Advances in Experimental Medicine and Biology, 2014, 796, 159-181.	0.8	7
78	Effect of nucleotide substrate binding on the pKa of catalytic residues in barnase. , 1996, 25, 180-194.		6
79	Conformational analysis of GpA and GpAp in aqueous solution by molecular dynamics and statistical methods 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 1998, 283, 863-882.	2.0	6
80	A pH-dependent model of the activation mechanism of the histamine H2 receptor. Biochemical Pharmacology, 1999, 58, 343-353.	2.0	6
81	Shift in nucleotide conformational equilibrium contributes to increased rate of catalysis of GpAp versus GpA in barnase. Proteins: Structure, Function and Bioinformatics, 2004, 56, 261-276.	1.5	6
82	Statistics for the analysis of molecular dynamics simulations: providing P values for agonist-dependent GPCR activation. Scientific Reports, 2020, 10, 19942.	1.6	6
83	Dynamical Correlations Reveal Allosteric Sites in G Protein-Coupled Receptors. International Journal of Molecular Sciences, 2021, 22, 187.	1.8	6
84	Spontaneous changes in brain striatal dopamine synthesis and storage dynamics ex vivo reveal end-product feedback-inhibition of tyrosine hydroxylase. Neuropharmacology, 2022, 212, 109058.	2.0	6
85	Modelling the changes induced by chronic desipramine treatment on the factors governing the agonism at prejunctional α ₂ â€adrenoceptors. British Journal of Pharmacology, 1996, 117, 1286-1292.	2.7	5
86	The slope parameter and the receptor reserve. Trends in Pharmacological Sciences, 1998, 19, 445.	4.0	5
87	Using machine learning tools for protein database biocuration assistance. Scientific Reports, 2018, 8, 10148.	1.6	5
88	Discovery of a true bivalent dopamine D2 receptor agonist. European Journal of Medicinal Chemistry, 2021, 212, 113151.	2.6	5
89	Changes in electrophysiological properties in the prostatic portion of vas deferens from spontaneously hypertensive rats. Naunyn-Schmiedeberg's Archives of Pharmacology, 2002, 366, 425-430.	1.4	4
90	Detecting Loss of Diversity for an Efficient Termination of EAs. , 2013, , .		4

Detecting Loss of Diversity for an Efficient Termination of EAs. , 2013, , . 90

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91	Reducing the n-gram feature space of class C GPCRs to subtype-discriminating patterns. Journal of Integrative Bioinformatics, 2014, 11, 99-115.	1.0	4
92	Visual interpretation of class C GPCR subtype overlapping from the nonlinear mapping of transformed primary sequences. , 2014, , .		4
93	Exploring the Activation Mechanism of the mGlu5 Transmembrane Domain. Frontiers in Molecular Biosciences, 2020, 7, 38.	1.6	4
94	Enhanced noradrenergic transmission in the spontaneously hypertensive rat anococcygeus muscle. British Journal of Pharmacology, 2003, 140, 773-779.	2.7	3
95	Human Genotoxic Study Carried Out Two Years after Oil Exposure during the Clean-up Activities Using Two Different Biomarkers. Journal of Marine Science and Engineering, 2015, 3, 1334-1348.	1.2	3
96	The extracellular N-terminal domain suffices to discriminate class C G Protein-Coupled Receptor subtypes from n-grams of their sequences. , 2015, , .		3
97	Representation Learning for Class C G Protein-Coupled Receptors Classification. Molecules, 2018, 23, 690.	1.7	3
98	Complementing Kernel-Based Visualization of Protein Sequences with Their Phylogenetic Tree. Lecture Notes in Computer Science, 2012, , 136-149.	1.0	3
99	Visual Characterization of Misclassified Class C GPCRs through Manifold-based Machine Learning Methods. Genomics and Computational Biology, 2015, 1, 19.	0.7	3
100	The structure and activity of membrane receptors: computational simulation of histamine H2-receptor activation. Computational and Theoretical Chemistry, 1996, 371, 279-286.	1.5	2
101	Effects of I -NG -nitro-arginine on noradrenaline induced contraction in the rat anococcygeus muscle. British Journal of Pharmacology, 1997, 120, 1035-1038.	2.7	2
102	Coupling of the guanosine glycosidic bond conformation and the ribonucleotide cleavage reaction: Implications for barnase catalysis. Proteins: Structure, Function and Bioinformatics, 2008, 70, 415-428.	1.5	2
103	Terminating evolutionary algorithms at their steady state. Computational Optimization and Applications, 2015, 61, 489-515.	0.9	2
104	Quantifying the allosteric interactions within a G-protein-coupled receptor heterodimer. Drug Discovery Today, 2018, 23, 7-11.	3.2	2
105	Finding Class C GPCR Subtype-Discriminating N-grams through Feature Selection. Advances in Intelligent Systems and Computing, 2014, , 89-96.	0.5	2
106	Exploring the Active Conformation of Cyclohexane Carboxylate Positive Allosteric Modulators of the Typeâ€4 Metabotropic Glutamate Receptor. ChemMedChem, 2014, 9, 2685-2698.	1.6	1
107	Reducing the n-gram feature space of class C GPCRs to subtype-discriminating patterns. Journal of Integrative Bioinformatics, 2014, 11, 254.	1.0	1
108	In Silico Assessment of the Lipid Fingerprint Signature of ATP2, the Essential P4-ATPase of Malaria Parasites. Membranes, 2022, 12, 702.	1.4	1

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109	120. Patterns of Response to Fear learning: A Data-Driven Approach to a Biomarker of Generalized Anxiety Disorders. Biological Psychiatry, 2017, 81, S50-S51.	0.7	0
110	Analysis of the Function of Receptor Oligomers by Operational Models of Agonism. , 2021, , .		0
111	Visual Exploratory Assessment of Class C GPCR Extracellular Domains Discrimination Capabilities. Advances in Intelligent Systems and Computing, 2016, , 31-39.	0.5	0
112	Kernel Generative Topographic Mapping of Protein Sequences. , 0, , 817-830.		0
113	Title is missing!. , 2020, 16, e1007818.		0
114	Title is missing!. , 2020, 16, e1007818.		0
115	Title is missing!. , 2020, 16, e1007818.		0
116	Title is missing!. , 2020, 16, e1007818.		0