

# Hugo Gutiérrez de Terán

## List of Publications by Year in descending order

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102  
papers

2,691  
citations

172457

29  
h-index

223800

46  
g-index

110  
all docs

110  
docs citations

110  
times ranked

3409  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of 2-Amino-4,6-diarylpyrimidine-5-carbonitriles as Potent and Selective A <sub>1</sub> Antagonists. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 2091-2106.	6.4	2
2	Exploring Non-orthosteric Interactions with a Series of Potent and Selective A <sub>3</sub> Antagonists. <i>ACS Medicinal Chemistry Letters</i> , 2022, 13, 243-249.	2.8	3
3	Slow conformational dynamics of the human A <sub>2A</sub> adenosine receptor are temporally ordered. <i>Structure</i> , 2022, 30, 329-337.e5.	3.3	17
4	A <sub>2B</sub> adenosine receptor antagonists rescue lymphocyte activity in adenosine-producing patient-derived cancer models. , 2022, 10, e004592.		8
5	N-(Methyloxycarbonyl)thiophene sulfonamides as high affinity AT <sub>2</sub> receptor ligands. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 29, 115859.	3.0	6
6	Design, synthesis, HER2 inhibition and anticancer evaluation of new substituted 1,5-dihydro-4,1-benzoxazepines. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021, 36, 1551-1561.	5.2	6
7	Free Energy Calculations for Protein-Ligand Binding Prediction. <i>Methods in Molecular Biology</i> , 2021, 2266, 203-226.	0.9	11
8	Structural Basis of Inhibition of Human Insulin-Regulated Aminopeptidase (IRAP) by Benzopyran-Based Inhibitors. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 625274.	3.5	3
9	Editorial: Physiological, Pathological Roles and Pharmacology of Insulin Regulated Aminopeptidase. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 685101.	3.5	0
10	Potent and Subtype-Selective Dopamine D <sub>2</sub> Receptor Biased Partial Agonists Discovered via an Ugi-Based Approach. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 8710-8726.	6.4	3
11	Identification of V6.51L as a selectivity hotspot in stereoselective A <sub>2B</sub> adenosine receptor antagonist recognition. <i>Scientific Reports</i> , 2021, 11, 14171.	3.3	11
12	Potent Inhibition of Nicotinamide N-Methyltransferase by Alkene-Linked Bisubstrate Mimics Bearing Electron Deficient Aromatics. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 12938-12963.	6.4	43
13	3,4-Dihydropyrimidin-2(1 <i>H</i> )-ones as Antagonists of the Human A <sub>2B</sub> Adenosine Receptor: Optimization, Structure-Activity Relationship Studies, and Enantiospecific Recognition. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 458-480.	6.4	19
14	Deciphering conformational selectivity in the A <sub>2A</sub> adenosine G protein-coupled receptor by free energy simulations. <i>PLoS Computational Biology</i> , 2021, 17, e1009152.	3.2	5
15	Macrocyclic peptidomimetics as inhibitors of insulin-regulated aminopeptidase (IRAP). <i>RSC Medicinal Chemistry</i> , 2020, 11, 234-244.	3.9	9
16	GPCRmd uncovers the dynamics of the 3D-GPCRome. <i>Nature Methods</i> , 2020, 17, 777-787.	19.0	90
17	X-ray Crystallography and Free Energy Calculations Reveal the Binding Mechanism of A <sub>2A</sub> Adenosine Receptor Antagonists. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16536-16543.	13.8	23
18	Nitrogen-Walk Approach to Explore Bioisosteric Replacements in a Series of Potent A <sub>2B</sub> Adenosine Receptor Antagonists. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 7721-7739.	6.4	20

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19	Synthesis, Evaluation and Proposed Binding Pose of Substituted Spirooxindole Dihydroquinazolinones as IRAP Inhibitors. <i>ChemistryOpen</i> , 2020, 9, 325-337.	1.9	7
20	X-ray Crystallography and Free Energy Calculations Reveal the Binding Mechanism of A <sub>2A</sub> Adenosine Receptor Antagonists. <i>Angewandte Chemie</i> , 2020, 132, 16679-16686.	2.0	1
21	Evolution of Angiotensin Peptides and Peptidomimetics as Angiotensin II Receptor Type 2 (AT2) Receptor Agonists. <i>Biomolecules</i> , 2020, 10, 649.	4.0	12
22	Characterization of cancer-related somatic mutations in the adenosine A2B receptor. <i>European Journal of Pharmacology</i> , 2020, 880, 173126.	3.5	15
23	Free-Energy Calculations for Bioisosteric Modifications of A <sub>3</sub> Adenosine Receptor Antagonists. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3499.	4.1	2
24	Inhibition of translation termination by small molecules targeting ribosomal release factors. <i>Scientific Reports</i> , 2019, 9, 15424.	3.3	6
25	QresFEP: An Automated Protocol for Free Energy Calculations of Protein Mutations in Q. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 5461-5473.	5.3	33
26	Trifluorinated Pyrimidine-Based A <sub>2B</sub> Antagonists: Optimization and Evidence of Stereospecific Recognition. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 9315-9330.	6.4	15
27	A Series of Analogues to the AT <sub>2</sub> R Prototype Antagonist C38 Allow Fine Tuning of the Previously Reported Antagonist Binding Mode. <i>ChemistryOpen</i> , 2019, 8, 114-125.	1.9	8
28	Functional characterization in vitro of twelve naturally occurring variants of the human pancreatic polypeptide receptor NPY4R. <i>Neuropeptides</i> , 2019, 76, 101933.	2.2	3
29	QligFEP: an automated workflow for small molecule free energy calculations in Q. <i>Journal of Cheminformatics</i> , 2019, 11, 26.	6.1	51
30	Free energy calculations of RNA interactions. <i>Methods</i> , 2019, 162-163, 85-95.	3.8	7
31	Structural Basis of Inhibition of Human Insulin-Regulated Aminopeptidase (IRAP) by Aryl Sulfonamides. <i>ACS Omega</i> , 2018, 3, 4509-4521.	3.5	14
32	Elucidation of the Binding Mode of the Carboxyterminal Region of Peptide YY to the Human Y <sub>2</sub> Receptor. <i>Molecular Pharmacology</i> , 2018, 93, 323-334.	2.3	28
33	Molecular Mechanisms in the Selectivity of Nonsteroidal Anti-Inflammatory Drugs. <i>Biochemistry</i> , 2018, 57, 1236-1248.	2.5	19
34	Q6: A comprehensive toolkit for empirical valence bond and related free energy calculations. <i>SoftwareX</i> , 2018, 7, 388-395.	2.6	47
35	Characterization of Ligand Binding to GPCRs Through Computational Methods. <i>Methods in Molecular Biology</i> , 2018, 1705, 23-44.	0.9	6
36	Structural Mapping of Adenosine Receptor Mutations: Ligand Binding and Signaling Mechanisms. <i>Trends in Pharmacological Sciences</i> , 2018, 39, 75-89.	8.7	64

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37	Structural mechanism of AadA, a dual-specificity aminoglycoside adenylyltransferase from <i>Salmonella enterica</i> . <i>Journal of Biological Chemistry</i> , 2018, 293, 11481-11490.	3.4	26
38	Exploring the influence of the substituent at position 4 in a series of 3,4-dihydropyrimidin-2(1H)-one A2B adenosine receptor antagonists. <i>Chemistry of Heterocyclic Compounds</i> , 2017, 53, 316-321.	1.2	7
39	3-Oxopyridazin-5-yl-Chalcone Hybrids: Potent Antiplatelet Agents That Prevent Glycoprotein IIb/IIIa Activation. <i>ChemistrySelect</i> , 2017, 2, 4920-4933.	1.5	4
40	Probing the Time Dependency of Cyclooxygenase-1 Inhibitors by Computer Simulations. <i>Biochemistry</i> , 2017, 56, 1911-1920.	2.5	5
41	A close-up view of codon selection in eukaryotic initiation. <i>RNA Biology</i> , 2017, 14, 815-819.	3.1	8
42	Enantiospecific Recognition at the A <sub>2B</sub> Adenosine Receptor by Alkyl 2-Cyanoimino-4-substituted-6-methyl-1,2,3,4-tetrahydropyrimidine-5-carboxylates. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 3372-3382.	6.4	26
43	The GPR139 reference agonists 1a and 7c, and tryptophan and phenylalanine share a common binding site. <i>Scientific Reports</i> , 2017, 7, 1128.	3.3	25
44	Effect of Nitrogen Atom Substitution in A <sub>3</sub> Adenosine Receptor Binding: <i>N</i> -(4,6-Diarylpyridin-2-yl)acetamides as Potent and Selective Antagonists. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 7502-7511.	6.4	14
45	Structure-Based Design of Potent and Selective Ligands at the Four Adenosine Receptors. <i>Molecules</i> , 2017, 22, 1945.	3.8	30
46	Discovery of 7-(Prolinol-N-yl)-2-phenylamino-thiazolo[5,4-d]pyrimidines as Novel Non-Nucleoside Partial Agonists for the A <sub>2A</sub> Adenosine Receptor: Prediction from Molecular Modeling. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 5922-5928.	6.4	23
47	Binding to and Inhibition of Insulin-Regulated Aminopeptidase by Macrocylic Disulfides Enhances Spine Density. <i>Molecular Pharmacology</i> , 2016, 89, 413-424.	2.3	35
48	Aryl Sulfonamide Inhibitors of Insulin-Regulated Aminopeptidase Enhance Spine Density in Primary Hippocampal Neuron Cultures. <i>ACS Chemical Neuroscience</i> , 2016, 7, 1383-1392.	3.5	27
49	Computational exploration of the binding mode of heme-dependent stimulators into the active catalytic domain of soluble guanylate cyclase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 1534-1548.	2.6	4
50	GPCR-ModSim: A comprehensive web based solution for modeling G-protein coupled receptors. <i>Nucleic Acids Research</i> , 2016, 44, W455-W462.	14.5	61
51	Discovery of Potent and Highly Selective A <sub>2B</sub> Adenosine Receptor Antagonist Chemotypes. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 1967-1983.	6.4	55
52	Structural determinants of subtype selectivity and functional activity of angiotensin II receptors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 1355-1359.	2.2	15
53	Structure-Based Rational Design of Adenosine Receptor Ligands. <i>Current Topics in Medicinal Chemistry</i> , 2016, 17, 40-58.	2.1	29
54	Computational exploration of the binding mode of the heme-dependent activator YC-1 into the active catalytic site of soluble guanylate cyclase. <i>BMC Pharmacology &amp; Toxicology</i> , 2015, 16, .	2.4	0

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55	Free energy calculations of A <sub>2A</sub> adenosine receptor mutation effects on agonist binding. <i>Chemical Communications</i> , 2015, 51, 3522-3525.	4.1	33
56	New selective A <sub>2A</sub> agonists and A <sub>3</sub> antagonists for human adenosine receptors: synthesis, biological activity and molecular docking studies. <i>MedChemComm</i> , 2015, 6, 1178-1185.	3.4	9
57	Origin of the Enigmatic Stepwise Tight-Binding Inhibition of Cyclooxygenase-1. <i>Biochemistry</i> , 2015, 54, 7283-7291.	2.5	17
58	Sodium Ion Binding Pocket Mutations and Adenosine A <sub>2A</sub> Receptor Function. <i>Molecular Pharmacology</i> , 2015, 87, 305-313.	2.3	79
59	Pyrazin-2(1 <i>H</i> )-ones as a novel class of selective A <sub>3</sub> adenosine receptor antagonists. <i>Future Medicinal Chemistry</i> , 2015, 7, 1373-1380.	2.3	8
60	Computer-Aided Design of GPCR Ligands. <i>Methods in Molecular Biology</i> , 2015, 1272, 271-291.	0.9	10
61	Computational Prediction of Alanine Scanning and Ligand Binding Energetics in G-Protein Coupled Receptors. <i>PLoS Computational Biology</i> , 2014, 10, e1003585.	3.2	58
62	Selective chaperone effect of aminocyclitol derivatives on G202R and other mutant glucocerebrosidases causing Gaucher disease. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 54, 245-254.	2.8	8
63	Toward an Optimal Docking and Free Energy Calculation Scheme in Ligand Design with Application to COX-1 Inhibitors. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 1488-1499.	5.4	20
64	Structure-Based Design of New KSP <sup>EG5</sup> Inhibitors Assisted by a Targeted Multicomponent Reaction. <i>ChemBioChem</i> , 2014, 15, 1471-1480.	2.6	5
65	The roles of computational chemistry in the ligand design of G protein-coupled receptors: how far have we come and what should we expect?. <i>Future Medicinal Chemistry</i> , 2014, 6, 251-254.	2.3	6
66	Structural and Energetic Effects of A <sub>2A</sub> Adenosine Receptor Mutations on Agonist and Antagonist Binding. <i>PLoS ONE</i> , 2014, 9, e108492.	2.5	46
67	The Role of a Sodium Ion Binding Site in the Allosteric Modulation of the A <sub>2A</sub> Adenosine G Protein-Coupled Receptor. <i>Structure</i> , 2013, 21, 2175-2185.	3.3	118
68	Discovery of 3,4-Dihydropyrimidin-2(1 <i>H</i> )-ones As a Novel Class of Potent and Selective A <sub>2B</sub> Adenosine Receptor Antagonists. <i>ACS Medicinal Chemistry Letters</i> , 2013, 4, 1031-1036.	2.8	65
69	Characterization of the dynamic events of GPCRs by automated computational simulations. <i>Biochemical Society Transactions</i> , 2013, 41, 205-212.	3.4	40
70	Mutagenesis and Computational Modeling of Human G-Protein-Coupled Receptor Y2 for Neuropeptide Y and Peptide YY. <i>Biochemistry</i> , 2013, 52, 7987-7998.	2.5	23
71	Selective and potent adenosine A <sub>3</sub> receptor antagonists by methoxyaryl substitution on the N-(2,6-diarylpyrimidin-4-yl)acetamide scaffold. <i>European Journal of Medicinal Chemistry</i> , 2013, 59, 235-242.	5.5	13
72	Computational Approaches for Ligand Discovery and Design in Class-A G Protein- Coupled Receptors. <i>Current Pharmaceutical Design</i> , 2013, 19, 2216-2236.	1.9	17

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73	Ligand-, structure- and pharmacophore-based molecular fingerprints: a case study on adenosine A1, A2A, A2B, and A3 receptor antagonists. <i>Journal of Computer-Aided Molecular Design</i> , 2012, 26, 1247-1266.	2.9	46
74	Linear Interaction Energy: Method and Applications in Drug Design. <i>Methods in Molecular Biology</i> , 2012, 819, 305-323.	0.9	78
75	Characterization of the homodimerization interface and functional hotspots of the CXCR4 chemokine receptor. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 1919-1928.	2.6	33
76	Molecular Modelling of G Protein-Coupled Receptors Through the Web. <i>Molecular Informatics</i> , 2012, 31, 334-341.	2.5	33
77	Computational Prediction of Structure-Activity Relationships for the Binding of Aminocyclitols to $\beta$ -Glucocerebrosidase. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 601-611.	5.4	14
78	Rational design of a cyclin A fluorescent peptide sensor. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 7629.	2.8	14
79	Molecular Dynamics Simulations Reveal Insights into Key Structural Elements of Adenosine Receptors. <i>Biochemistry</i> , 2011, 50, 4194-4208.	2.5	64
80	Pyrimidine Derivatives as Potent and Selective A <sub>3</sub> Adenosine Receptor Antagonists. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 457-471.	6.4	56
81	Identification of positions in the human neuropeptide Y/peptide YY receptor Y2 that contribute to pharmacological differences between receptor subtypes. <i>Neuropeptides</i> , 2011, 45, 293-300.	2.2	13
82	In silico directed chemical probing of the adenosine receptor family. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 3043-3052.	3.0	28
83	Phe369(7.38) at human 5-HT <sub>7</sub> receptors confers interspecies selectivity to antagonists and partial agonists. <i>British Journal of Pharmacology</i> , 2010, 159, 1069-1081.	5.4	13
84	Crystal structure of thioflavin-T and its binding to amyloid fibrils: insights at the molecular level. <i>Chemical Communications</i> , 2010, 46, 1156.	4.1	78
85	Mutagenesis of human neuropeptide Y/peptide YY receptor Y2 reveals additional differences to Y1 in interactions with highly conserved ligand positions. <i>Regulatory Peptides</i> , 2010, 163, 120-129.	1.9	15
86	A C-terminal mutation of ATP1A3 underscores the crucial role of sodium affinity in the pathophysiology of rapid-onset dystonia-parkinsonism. <i>Human Molecular Genetics</i> , 2009, 18, 2370-2377.	2.9	59
87	Identification of Novel Scaffolds from an Original Chemical Library as Potential Antipsychotics. <i>QSAR and Combinatorial Science</i> , 2009, 28, 856-860.	1.4	6
88	Community-wide assessment of GPCR structure modelling and ligand docking: GPCR Dock 2008. <i>Nature Reviews Drug Discovery</i> , 2009, 8, 455-463.	46.4	260
89	$\hat{\pm}$ -Substituted norstatines as the transition-state mimic in inhibitors of multiple digestive vacuole malaria aspartic proteases. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 5933-5949.	3.0	36
90	Recombinant Plasmeprin 1 from the Human Malaria Parasite <i>Plasmodium falciparum</i> : Enzymatic Characterization, Active Site Inhibitor Design, and Structural Analysis. <i>Biochemistry</i> , 2009, 48, 4086-4099.	2.5	20

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91	Synthesis, adenosine receptor binding and 3D-QSAR of 4-substituted 2-(2-furyl)-1,2,4-triazolo[1,5-a]quinoxalines. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 2103-2113.	3.0	14
92	Computational inhibitor design against malaria plasmepsins. <i>Cellular and Molecular Life Sciences</i> , 2007, 64, 2285-2305.	5.4	43
93	Inhibitor Binding to the Plasmepsin IV Aspartic Protease from <i>Plasmodium falciparum</i> . <i>Biochemistry</i> , 2006, 45, 10529-10541.	2.5	28
94	Computational analysis of plasmepsin IV bound to an allophenylnorstatine inhibitor. <i>FEBS Letters</i> , 2006, 580, 5910-5916.	2.8	21
95	Macrocyclic inhibitors of the malarial aspartic proteases plasmepsin I, II, and IV. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 2197-2208.	3.0	39
96	Towards a MIP-based alignment and docking in computer-aided drug design. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 56, 585-594.	2.6	6
97	Novel approaches for modeling of the A1 adenosine receptor and its agonist binding site. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 54, 705-715.	2.6	23
98	Comparative Analysis of Putative Agonist-Binding Modes in the Human A1 Adenosine Receptor. <i>ChemBioChem</i> , 2004, 5, 841-849.	2.6	10
99	On the Generation of Catalytic Antibodies by Transition State Analogues. <i>ChemBioChem</i> , 2003, 4, 277-285.	2.6	29
100	Molecular Diversity Sample Generation on the Basis of Quantum-Mechanical Computations and Principal Component Analysis. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2002, 5, 49-57.	1.1	3
101	Comparison of biomolecules on the basis of Molecular Interaction Potentials. <i>Journal of the Brazilian Chemical Society</i> , 2002, 13, 795-799.	0.6	10
102	Use of alignment-free molecular descriptors in diversity analysis and optimal sampling of molecular libraries. <i>Molecular Diversity</i> , 2000, 6, 135-147.	3.9	8