Xavier Deupi

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75	5,714	37	75
papers	citations	h-index	g-index
85	6,472 ext. citations	9.9	5.72
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
75	Molecular signatures of G-protein-coupled receptors. <i>Nature</i> , 2013 , 494, 185-94	50.4	1071
74	Conformational complexity of G-protein-coupled receptors. <i>Trends in Pharmacological Sciences</i> , 2007 , 28, 397-406	13.2	578
73	Coupling ligand structure to specific conformational switches in the beta2-adrenoceptor 2006 , 2, 417-	22	280
72	Tracking G-protein-coupled receptor activation using genetically encoded infrared probes. <i>Nature</i> , 2010 , 464, 1386-9	50.4	220
71	Probing the beta2 adrenoceptor binding site with catechol reveals differences in binding and activation by agonists and partial agonists. <i>Journal of Biological Chemistry</i> , 2005 , 280, 22165-71	5.4	216
70	Energy landscapes as a tool to integrate GPCR structure, dynamics, and function. <i>Physiology</i> , 2010 , 25, 293-303	9.8	194
69	Stabilized G protein binding site in the structure of constitutively active metarhodopsin-II. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 119-24	11.5	193
68	The effect of ligand efficacy on the formation and stability of a GPCR-G protein complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 9501-6	11.5	186
67	Diverse activation pathways in class A GPCRs converge near the G-protein-coupling region. <i>Nature</i> , 2016 , 536, 484-7	50.4	184
66	Structural insights into agonist-induced activation of G-protein-coupled receptors. <i>Current Opinion in Structural Biology</i> , 2011 , 21, 541-51	8.1	180
65	Ligand-regulated oligomerization of beta(2)-adrenoceptors in a model lipid bilayer. <i>EMBO Journal</i> , 2009 , 28, 3315-28	13	157
64	Serine and threonine residues bend alpha-helices in the chi(1) = $g(-)$ conformation. <i>Biophysical Journal</i> , 2000 , 79, 2754-60	2.9	157
63	Structural insights into biased G protein-coupled receptor signaling revealed by fluorescence spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 6733-8	11.5	151
62	The role of internal water molecules in the structure and function of the rhodopsin family of G protein-coupled receptors. <i>ChemBioChem</i> , 2007 , 8, 19-24	3.8	111
61	The TXP motif in the second transmembrane helix of CCR5. A structural determinant of chemokine-induced activation. <i>Journal of Biological Chemistry</i> , 2001 , 276, 13217-25	5.4	111
60	Backbone NMR reveals allosteric signal transduction networks in the 1 -adrenergic receptor. <i>Nature</i> , 2016 , 530, 237-41	50.4	110
59	An activation switch in the rhodopsin family of G protein-coupled receptors: the thyrotropin receptor. <i>Journal of Biological Chemistry</i> , 2005 , 280, 17135-41	5.4	88

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58	Ser and Thr residues modulate the conformation of pro-kinked transmembrane alpha-helices. <i>Biophysical Journal</i> , 2004 , 86, 105-15	2.9	83
57	Activation of CCR5 by chemokines involves an aromatic cluster between transmembrane helices 2 and 3. <i>Journal of Biological Chemistry</i> , 2003 , 278, 1892-903	5.4	80
56	Insights into congenital stationary night blindness based on the structure of G90D rhodopsin. <i>EMBO Reports</i> , 2013 , 14, 520-6	6.5	72
55	An online resource for GPCR structure determination and analysis. <i>Nature Methods</i> , 2019 , 16, 151-162	21.6	71
54	Molecular basis of ligand dissociation in Eadrenergic receptors. <i>PLoS ONE</i> , 2011 , 6, e23815	3.7	70
53	Activation of G protein-coupled receptors. Advances in Protein Chemistry, 2007, 74, 137-66		61
52	Relation between sequence and structure in membrane proteins. <i>Bioinformatics</i> , 2013 , 29, 1589-92	7.2	59
51	SAS-6 engineering reveals interdependence between cartwheel and microtubules in determining centriole architecture. <i>Nature Cell Biology</i> , 2016 , 18, 393-403	23.4	55
50	A structural insight into the reorientation of transmembrane domains 3 and 5 during family A G protein-coupled receptor activation. <i>Molecular Pharmacology</i> , 2011 , 79, 262-9	4.3	53
49	Distinct G protein-coupled receptor phosphorylation motifs modulate arrestin affinity and activation and global conformation. <i>Nature Communications</i> , 2019 , 10, 1261	17.4	52
48	Coronin 1 regulates cognition and behavior through modulation of cAMP/protein kinase A signaling. <i>PLoS Biology</i> , 2014 , 12, e1001820	9.7	52
47	Femtosecond-to-millisecond structural changes in a light-driven sodium pump. <i>Nature</i> , 2020 , 583, 314-3	3 15 80.4	48
46	Functional map of arrestin-1 at single amino acid resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 1825-30	11.5	48
45	Design, synthesis and pharmacological evaluation of 5-hydroxytryptamine(1a) receptor ligands to explore the three-dimensional structure of the receptor. <i>Molecular Pharmacology</i> , 2002 , 62, 15-21	4.3	47
44	A Molecular Pharmacologist Guide to G Protein-Coupled Receptor Crystallography. <i>Molecular Pharmacology</i> , 2015 , 88, 536-51	4.3	45
43	Probing GII protein activation at single-amino acid resolution. <i>Nature Structural and Molecular Biology</i> , 2015 , 22, 686-694	17.6	42
42	Relevance of rhodopsin studies for GPCR activation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014 , 1837, 674-82	4.6	41
41	Structural models of class a G protein-coupled receptors as a tool for drug design: insights on transmembrane bundle plasticity. <i>Current Topics in Medicinal Chemistry</i> , 2007 , 7, 991-8	3	41

40	Conserved activation pathways in G-protein-coupled receptors. <i>Biochemical Society Transactions</i> , 2012 , 40, 383-8	5.1	40
39	Structural and functional characterization of alternative transmembrane domain conformations in VEGF receptor 2 activation. <i>Structure</i> , 2014 , 22, 1077-1089	5.2	38
38	Crystal structure of rhodopsin in complex with a mini-G sheds light on the principles of G protein selectivity. <i>Science Advances</i> , 2018 , 4, eaat7052	14.3	37
37	GPCRmd uncovers the dynamics of the 3D-GPCRome. <i>Nature Methods</i> , 2020 , 17, 777-787	21.6	34
36	Conformational activation of visual rhodopsin in native disc membranes. Science Signaling, 2015, 8, ra26	8.8	29
35	Influence of the environment in the conformation of alpha-helices studied by protein database search and molecular dynamics simulations. <i>Biophysical Journal</i> , 2002 , 82, 3207-13	2.9	29
34	Cryo-EM structure of the rhodopsin-GHI complex reveals binding of the rhodopsin C-terminal tail to the gI subunit. <i>ELife</i> , 2019 , 8,	8.9	29
33	The activation mechanism of chemokine receptor CCR5 involves common structural changes but a different network of interhelical interactions relative to rhodopsin. <i>Cellular Signalling</i> , 2007 , 19, 1446-50	6 ^{4.9}	26
32	Structural role of the T94I rhodopsin mutation in congenital stationary night blindness. <i>EMBO Reports</i> , 2016 , 17, 1431-1440	6.5	25
31	Influence of the g- conformation of Ser and Thr on the structure of transmembrane helices. <i>Journal of Structural Biology</i> , 2010 , 169, 116-23	3.4	24
30	Crystal structure of jumping spider rhodopsin-1 as a light sensitive GPCR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 14547-14556	11.5	20
29	The counterion-retinylidene Schiff base interaction of an invertebrate rhodopsin rearranges upon light activation. <i>Communications Biology</i> , 2019 , 2, 180	6.7	14
28	The Two-Photon Reversible Reaction of the Bistable Jumping Spider Rhodopsin-1. <i>Biophysical Journal</i> , 2019 , 116, 1248-1258	2.9	11
27	The DRF motif of CXCR6 as chemokine receptor adaptation to adhesion. <i>PLoS ONE</i> , 2017 , 12, e0173486	3.7	11
26	Batch crystallization of rhodopsin for structural dynamics using an X-ray free-electron laser. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015 , 71, 856-60	1.1	11
25	Triazolo-Peptidomimetics: Novel Radiolabeled Minigastrin Analogs for Improved Tumor Targeting. Journal of Medicinal Chemistry, 2020 , 63, 4484-4495	8.3	10
24	Molecular dynamics: A stitch in time. <i>Nature Chemistry</i> , 2014 , 6, 7-8	17.6	10
23	Convergent evolution of tertiary structure in rhodopsin visual proteins from vertebrates and box jellyfish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 620	1 ¹ -6200	5 10

Characterization of a conformationally sensitive TOAC spin-labeled substance P. Peptides, 2008, 29, 1919:89 2.2 Quantification of structural distortions in the transmembrane helices of GPCRs. Methods in 8 21 1.4 Molecular Biology, 2012, 914, 219-35 Selective hydrolysis of 2,4-diaminopyrimidine systems: a theoretical and experimental insight into 8 20 4.2 an old rule. Journal of Organic Chemistry, 2001, 66, 192-9 Structural basis of the activation of the CC chemokine receptor 5 by a chemokine agonist. Science 8 19 14.3 Advances, **2021**, 7, Elucidating the Structure-Activity Relationship of the Pentaglutamic Acid Sequence of Minigastrin 18 6.3 8 with Cholecystokinin Receptor Subtype 2. Bioconjugate Chemistry, 2019, 30, 657-666 Structure of Endrenergic receptors. Methods in Enzymology, 2013, 520, 117-51 17 1.7 7 Charge-charge and cation-Interactions in ligand binding to G protein-coupled receptors. 16 1.9 7 Theoretical Chemistry Accounts, 2007, 118, 579-588 GPCR-SAS: A web application for statistical analyses on G protein-coupled receptors sequences. 6 15 3.7 PLoS ONE, 2018, 13, e0199843 An experimental strategy to probe Gq contribution to signal transduction in living cells. Journal of 6 5.4 14 Biological Chemistry, **2021**, 296, 100472 Arrestin-1 engineering facilitates complex stabilization with native rhodopsin. Scientific Reports, 13 4.9 2019, 9, 439 Ligands stabilize specific GPCR conformations: but how?. Structure, 2012, 20, 1289-90 12 5.2 5 TMalphaDB and TMbetaDB: web servers to study the structural role of sequence motifs in Ehelix 3.6 11 4 and Ebarrel domains of membrane proteins. BMC Bioinformatics, 2015, 16, 266 High-mass MALDI-MS unravels ligand-mediated G protein-coupling selectivity to GPCRs. 10 11.5 2 Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, Identification of Key Regions Mediating Human Melatonin Type 1 Receptor Functional Selectivity 9 5.9 Revealed by Natural Variants. ACS Pharmacology and Translational Science, 2021, 4, 1614-1627 Chimeric single Ehelical domains as rigid fusion protein connections for protein nanotechnology 8 5.2 2 and structural biology. Structure, 2021, 3-D Structure of G Protein-coupled Receptors. Methods and Principles in Medicinal Chemistry, 2006, 183-202 Structural Elements Directing G Proteins and Enrestin Interactions with the Human Melatonin 6 1 Type 2 Receptor Revealed by Natural Variants. ACS Pharmacology and Translational Science, 2022, 5, 89-109 Conformational Plasticity of GPCR Binding Sites 2005, 363-388

4	Structural basis of the activation of the CC chemokine receptor 5 by a chemokine agonist	1
3	Unraveling binding mechanism and kinetics of macrocyclic Glprotein inhibitors. <i>Pharmacological Research</i> , 2021 , 173, 105880	10.2 1
2	Distance-Dependent Cellular Uptake of Oligoproline-Based Homobivalent Ligands Targeting GPCRs-An Experimental and Computational Analysis. <i>Bioconjugate Chemistry</i> , 2020 , 31, 2431-2438	6.3 0
1	Structural Insights for Homology Modeling of Chemokine Receptors. <i>Methods and Principles in Medicinal Chemistry</i> , 2011 , 33-50	0.4