Jana Selent

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3278660/publications.pdf

Version: 2024-02-01

		236612	264894
65	2,095	25	42
papers	citations	h-index	g-index

69	69	69	3198
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MEMBPLUGIN: studying membrane complexity in VMD. Bioinformatics, 2014, 30, 1478-1480.	1.8	215
2	Membrane Protein Structure, Function, and Dynamics: a Perspective from Experiments and Theory. Journal of Membrane Biology, 2015, 248, 611-640.	1.0	157
3	Membrane cholesterol access into a G-protein-coupled receptor. Nature Communications, 2017, 8, 14505.	5.8	129
4	Induced Effects of Sodium Ions on Dopaminergic G-Protein Coupled Receptors. PLoS Computational Biology, 2010, 6, e1000884.	1.5	93
5	GPCRmd uncovers the dynamics of the 3D-GPCRome. Nature Methods, 2020, 17, 777-787.	9.0	90
6	Membrane omega-3 fatty acids modulate the oligomerisation kinetics of adenosine A2A and dopamine D2 receptors. Scientific Reports, 2016, 6, 19839.	1.6	89
7	Community guidelines for GPCR ligand bias: IUPHAR review 32. British Journal of Pharmacology, 2022, 179, 3651-3674.	2.7	84
8	C-edge loops of arrestin function as a membrane anchor. Nature Communications, 2017, 8, 14258.	5.8	77
9	Distinct phosphorylation sites in a prototypical GPCR differently orchestrate Î²-arrestin interaction, trafficking, and signaling. Science Advances, 2020, 6, .	4.7	55
10	Conformational Sensors and Domain Swapping Reveal Structural and Functional Differences between Î²-Arrestin Isoforms. Cell Reports, 2019, 28, 3287-3299.e6.	2.9	54
11	Multiâ€Receptor Binding Profile of Clozapine and Olanzapine: A Structural Study Based on the New Î²₂ Adrenergic Receptor Template. ChemMedChem, 2008, 3, 1194-1198.	1.6	51
12	Effects of palmitoylation of Cys⁴¹⁵ in helix 8 of the CB₁ cannabinoid receptor on membrane localization and signalling. British Journal of Pharmacology, 2012, 165, 2635-2651.	2.7	50
13	Key phosphorylation sites in <scp>GPCR</scp> s orchestrate the contribution of Î²â€Arrestin 1 in <scp>ERK</scp> 1/2 activation. EMBO Reports, 2020, 21, e49886.	2.0	48
14	Equine Estrogens Impair Nitric Oxide Production and Endothelial Nitric Oxide Synthase Transcription in Human Endothelial Cells Compared With the Natural 17Î²-Estradiol. Hypertension, 2010, 56, 405-411.	1.3	39
15	Synthesis, binding affinity and SAR of new benzolactam derivatives as dopamine D3 receptor ligands. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 1773-1778.	1.0	35
16	How Do Molecular Dynamics Data Complement Static Structural Data of GPCRs. International Journal of Molecular Sciences, 2020, 21, 5933.	1.8	35
17	Performance of virtual screening against GPCR homology models: Impact of template selection and treatment of binding site plasticity. PLoS Computational Biology, 2020, 16, e1007680.	1.5	35
18	A gain-of-function SNP in TRPC4 cation channel protects against myocardial infarction. Cardiovascular Research, 2011, 91, 465-471.	1.8	31

#	Article	IF	Citations
19	Electronic Sculpting of Ligand-GPCR Subtype Selectivity: The Case of Angiotensin II. ACS Chemical Biology, 2014, 9, 1420-1425.	1.6	31
20	Computational methods for studying G protein-coupled receptors (GPCRs). Methods in Cell Biology, 2016, 132, 359-399.	0.5	31
21	A molecular sensor for cholesterol in the human serotonin _{1A} receptor. Science Advances, 2021, 7, .	4.7	31
22	Membrane-Sensitive Conformational States of Helix 8 in the Metabotropic Glu2 Receptor, a Class C GPCR. PLoS ONE, 2012, 7, e42023.	1.1	31
23	Detection of New Biased Agonists for the Serotonin 5-HT_{2A} Receptor: Modeling and Experimental Validation. Molecular Pharmacology, 2015, 87, 740-746.	1.0	29
24	Modeling Complexes of Transmembrane Proteins: Systematic Analysis of Proteinï£¿Protein Docking Tools. Molecular Informatics, 2013, 32, 717-733.	1.4	27
25	A Dynamic View of Molecular Switch Behavior at Serotonin Receptors: Implications for Functional Selectivity. PLoS ONE, 2014, 9, e109312.	1.1	27
26	Novel Insights into Biased Agonism at G Protein-Coupled Receptors and their Potential for Drug Design. Current Pharmaceutical Design, 2013, 19, 5156-5166.	0.9	27
27	Synthesis, Binding Affinity, and Molecular Docking Analysis of New Benzofuranone Derivatives as Potential Antipsychotics. Journal of Medicinal Chemistry, 2008, 51, 6085-6094.	2.9	26
28	Drugging specific conformational states of GPCRs: challenges and opportunities for computational chemistry. Drug Discovery Today, 2016, 21, 625-631.	3.2	26
29	Sharing Data from Molecular Simulations. Journal of Chemical Information and Modeling, 2019, 59, 4093-4099.	2.5	26
30	Palmitoylation of cysteine 415 of CB 1 receptor affects ligand-stimulated internalization and selective interaction with membrane cholesterol and caveolin 1. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 523-532.	1.2	24
31	Selective Inhibition of the Collagenase Activity of Cathepsin K. Journal of Biological Chemistry, 2007, 282, 16492-16501.	1.6	23
32	Synthesis, 3Dâ€QSAR, and Structural Modeling of Benzolactam Derivatives with Binding Affinity for the D₂ and D₃ Receptors. ChemMedChem, 2010, 5, 1300-1317.	1.6	23
33	Progress in the structural prediction of G proteinâ€coupled receptors: D₃ receptor in complex with eticlopride. Proteins: Structure, Function and Bioinformatics, 2011, 79, 1695-1703.	1.5	22
34	Novel insights on the structural determinants of clozapine and olanzapine multi-target binding profiles. European Journal of Medicinal Chemistry, 2014, 77, 91-95.	2.6	21
35	Application of BRET for Studying G Protein-Coupled Receptors. Mini-Reviews in Medicinal Chemistry, 2014, 14, 411-425.	1.1	19
36	Fractal dimension as a measure of surface roughness of G protein-coupled receptors: implications for structure and function. Journal of Molecular Modeling, 2012, 18, 4465-4475.	0.8	17

#	Article	IF	Citations
37	Proteinâ€“Protein Docking in Drug Design and Discovery. Methods in Molecular Biology, 2018, 1762, 285-305.	0.4	17
38	SCoV2-MD: a database for the dynamics of the SARS-CoV-2 proteome and variant impact predictions. Nucleic Acids Research, 2022, 50, D858-D866.	6.5	17
39	Can molecular dynamics simulations improve the structural accuracy and virtual screening performance of GPCR models?. PLoS Computational Biology, 2021, 17, e1008936.	1.5	16
40	Multiâ€Component Protein â€“ Protein Docking Based Protocol with External Scoring for Modeling Dimers of G Proteinâ€Coupled Receptors. Molecular Informatics, 2015, 34, 246-255.	1.4	15
41	Development of Fluorescent Probes that Target Serotonin 5-HT2B Receptors. Scientific Reports, 2017, 7, 10765.	1.6	15
42	The European Research Network on Signal Transduction (ERNEST): Toward a Multidimensional Holistic Understanding of G Protein-Coupled Receptor Signaling. ACS Pharmacology and Translational Science, 2020, 3, 361-370.	2.5	15
43	Simulating G Protein-Coupled Receptors in Native-Like Membranes. Methods in Cell Biology, 2013, 117, 63-90.	0.5	13
44	Tungstate activates BK channels in a Î² subunit- and Mg2+-dependent manner: relevance for arterial vasodilatation. Cardiovascular Research, 2012, 95, 29-38.	1.8	12
45	Role of palmitoylation of cysteine 415 in functional coupling CB₁ receptor to Gİ±_{i2} protein. Biotechnology and Applied Biochemistry, 2018, 65, 16-20.	1.4	12
46	Membrane cholesterol effect on the 5â€HT_{2A} receptor: Insights into the lipidâ€induced modulation of an antipsychotic drug target. Biotechnology and Applied Biochemistry, 2018, 65, 29-37.	1.4	12
47	Serotonin 2A receptor disulfide bridge integrity is crucial for ligand binding to different signalling states but not for its homodimerization. European Journal of Pharmacology, 2017, 815, 138-146.	1.7	11
48	A Novel Multilevel Statistical Method for the Study of the Relationships between Multireceptorial Binding Affinity Profiles and In Vivo Endpoints. Molecular Pharmacology, 2010, 77, 149-158.	1.0	10
49	Crosstalk within GPCR Heteromers in Schizophrenia and Parkinsons Disease: Physical or Just Functional?. Current Medicinal Chemistry, 2012, 19, 1119-1134.	1.2	10
50	Structure-Based Molecular Modeling Approaches to GPCR Oligomerization. Methods in Cell Biology, 2013, 117, 91-104.	0.5	10
51	Synthesis, molecular modelling studies and biological evaluation of new oxoeicosanoid receptor 1 agonists. Bioorganic and Medicinal Chemistry, 2018, 26, 3580-3587.	1.4	9
52	Rational design of the survivin/CDK4 complex by combining proteinâ€“protein docking and molecular dynamics simulations. Journal of Molecular Modeling, 2013, 19, 1507-1514.	0.8	8
53	Ligand with Two Modes of Interaction with the Dopamine D₂ Receptorâ€“An Induced-Fit Mechanism of Insurmountable Antagonism. ACS Chemical Neuroscience, 2020, 11, 3130-3143.	1.7	8
54	In silicoExploration of the Conformational Universe of GPCRs. Molecular Informatics, 2016, 35, 227-237.	1.4	7

#	Article	IF	Citations
55	Mechanistic insights into dopaminergic and serotonergic neurotransmission â€“ concerted interactions with helices 5 and 6 drive the functional outcome. Chemical Science, 2021, 12, 10990-11003.	3.7	7
56	Entrectinibâ€”A SARS-CoV-2 Inhibitor in Human Lung Tissue (HLT) Cells. International Journal of Molecular Sciences, 2021, 22, 13592.	1.8	7
57	Enantiomeric N-methyl-4-piperidyl benzilates as muscarinic receptor ligands: Radioligand binding studies and docking studies to models of the three muscarinic receptors M1, M2 and M3. Bioorganic and Medicinal Chemistry, 2006, 14, 1729-1736.	1.4	6
58	Challenges and Opportunities in Drug Discovery of Biased Ligands. Methods in Molecular Biology, 2018, 1705, 321-334.	0.4	6
59	Structural dynamics bridge the gap between the genetic and functional levels of GPCRs. Current Opinion in Structural Biology, 2021, 69, 150-159.	2.6	6
60	A highly conserved Î´â€opioid receptor region determines RGS4 interaction. FEBS Journal, 2020, 287, 736-748.	2.2	5
61	Dopamine D2 Receptor Agonist Binding Kineticsâ€”Role of a Conserved Serine Residue. International Journal of Molecular Sciences, 2021, 22, 4078.	1.8	5
62	Simulating Time-Resolved Dynamics of Biomolecular Systems. , 2022, , 115-134.		2
63	Electron Paramagnetic Resonance Gives Evidence for the Presence of Type 1 Gonadotropin-Releasing Hormone Receptor (GnRH-R) in Subdomains of Lipid Rafts. Molecules, 2021, 26, 973.	1.7	1
64	In Silico Study of Allosteric Communication Networks in GPCR Signaling Bias. International Journal of Molecular Sciences, 2022, 23, 7809.	1.8	1
65	Cell Membrane Composition Affects GPCR Aggregation. Biophysical Journal, 2014, 106, 517a-518a.	0.2	0