Trends in GPCR drug discovery: new agents, targets and

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Citation Report

#	Article	IF	Citations
1	Targeting immune-driven opioid analgesia by sigma-1 receptors: Opening the door to novel perspectives for the analgesic use of sigma-1 antagonists. Pharmacological Research, 2018, 131, 224-230.	3.1	12
2	Unexplored therapeutic opportunities in the human genome. Nature Reviews Drug Discovery, 2018, 17, 317-332.	21.5	263
3	Mechanism of the G-protein mimetic nanobody binding to a muscarinic G-protein-coupled receptor. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3036-3041.	3.3	111
4	Small molecules targeting heterotrimeric G proteins. European Journal of Pharmacology, 2018, 826, 169-178.	1.7	21
5	Engineering expression and function of membrane proteins. Methods, 2018, 147, 66-72.	1.9	13
6	Intracellular Receptor Modulation: Novel Approach to Target GPCRs. Trends in Pharmacological Sciences, 2018, 39, 547-559.	4.0	43
7	Collagen IV-conveyed signals can regulate chemokine production and promote liver metastasis. Oncogene, 2018, 37, 3790-3805.	2.6	40
8	Predicting ligand binding poses for low-resolution membrane protein models: Perspectives from multiscale simulations. Biochemical and Biophysical Research Communications, 2018, 498, 366-374.	1.0	32
9	New Insights into Modes of GPCR Activation. Trends in Pharmacological Sciences, 2018, 39, 367-386.	4.0	172
10	Systematic optimization of cell-free synthesized human endothelin B receptor folding. Methods, 2018, 147, 73-83.	1.9	25
11	Lock and key become flexible. Nature Chemical Biology, 2018, 14, 201-202.	3.9	6
12	Dopamine D3 receptor antagonist reveals a cryptic pocket in aminergic GPCRs. Scientific Reports, 2018, 8, 897.	1.6	39
13	Immunomodulatory capacity of the serotonin receptor 5-HT2B in a subset of human dendritic cells. Scientific Reports, 2018, 8, 1765.	1.6	56
14	Protein complexes as psychiatric and neurological drug targets. Biochemical Pharmacology, 2018, 151, 263-281.	2.0	11
15	Where do we go from here? Membrane protein research beyond the structure-function horizon. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 801-803.	1.4	1
16	Gs protein peptidomimetics as allosteric modulators of the Î²2-adrenergic receptor. RSC Advances, 2018, 8, 2219-2228.	1.7	9
17	Negative Feedback Phosphorylation of GÎ³ Subunit Ste18 and the Ste5 Scaffold Synergistically Regulates MAPK Activation in Yeast. Cell Reports, 2018, 23, 1504-1515.	2.9	21
18	Emerging Paradigm of Intracellular Targeting of G Protein-Coupled Receptors. Trends in Biochemical Sciences, 2018, 43, 533-546.	3.7	34

#	Article	IF	Citations
19	GPCR Signaling: The Interplay of GÎ±i and Î²-arrestin. Current Biology, 2018, 28, R324-R327.	1.8	16
20	Chemical Diversity in the G Protein-Coupled Receptor Superfamily. Trends in Pharmacological Sciences, 2018, 39, 494-512.	4.0	67
21	GPCRdb in 2018: adding GPCR structure models and ligands. Nucleic Acids Research, 2018, 46, D440-D446.	6.5	421
22	G-protein-coupled receptors (GPCRs) in the treatment of diabetes: Current view and future perspectives. Best Practice and Research in Clinical Endocrinology and Metabolism, 2018, 32, 201-213.	2.2	12
24	Targeting the 26S Proteasome To Protect Against Proteotoxic Diseases. Trends in Molecular Medicine, 2018, 24, 18-29.	3.5	39
25	Pharmacogenomics of GPCR Drug Targets. Cell, 2018, 172, 41-54.e19.	13.5	464
26	A Structural Framework for GPCR Chemogenomics: Whatâ€™s In a Residue Number?. Methods in Molecular Biology, 2018, 1705, 73-113.	0.4	6
27	Structural Mapping of Adenosine Receptor Mutations: Ligand Binding and Signaling Mechanisms. Trends in Pharmacological Sciences, 2018, 39, 75-89.	4.0	64
28	Basic Principles in Clinical Neuroendocrinology I: Receptor Mechanisms. , 2018, , 1-13.		0
30	Neuropeptide and Small Transmitter Coexistence: Fundamental Studies and Relevance to Mental Illness. Frontiers in Neural Circuits, 2018, 12, 106.	1.4	87
31	G protein subunit phosphorylation as a regulatory mechanism in heterotrimeric G protein signaling in mammals, yeast, and plants. Biochemical Journal, 2018, 475, 3331-3357.	1.7	53
32	Structure-guided development of selective M3 muscarinic acetylcholine receptor antagonists. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12046-12050.	3.3	64
33	Intracellular Follicle-Stimulating Hormone Receptor Trafficking and Signaling. Frontiers in Endocrinology, 2018, 9, 653.	1.5	26
34	A split luciferase-based probe for quantitative proximal determination of GÎ±q signalling in live cells. Scientific Reports, 2018, 8, 17179.	1.6	16
36	Overview of G-Protein Coupled Receptor. , 2018, , 1-18.		0
37	Structural Basis for Binding of Allosteric Drug Leads in the Adenosine A1 Receptor. Scientific Reports, 2018, 8, 16836.	1.6	63
38	A _{2A} adenosine receptor functional states characterized by ¹⁹ F-NMR. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12733-12738.	3.3	96
39	Targeting Chemokines and Chemokine Receptors in Melanoma and Other Cancers. Frontiers in Immunology, 2018, 9, 2480.	2.2	57

#	Article	IF	Citations
40	Biased agonism and allosteric modulation of metabotropic glutamate receptor 5. Clinical Science, 2018, 132, 2323-2338.	1.8	14
41	GPCR structure and function relationship: identification of a biased apelin receptor mutant. Biochemical Journal, 2018, 475, 3813-3826.	1.7	15
42	Structural organization of a major neuronal G protein regulator, the RGS7-Gî²5-R7BP complex. ELife, 2018, 7, .	2.8	18
43	The Role of G Protein-Coupled Receptors in the Right Ventricle in Pulmonary Hypertension. Frontiers in Cardiovascular Medicine, 2018, 5, 179.	1.1	12
44	Metabotropic GPCRs: TGR5 and P2Y Receptors in Health and Diseases. , 2018, , .		1
45	BIOMEMBRANES 2018. Journal of Bioenergetics and Biomembranes, 2018, 50, 467-603.	1.0	8
46	Small-Angle Neutron Scattering Reveals Energy Landscape for Rhodopsin Photoactivation. Journal of Physical Chemistry Letters, 2018, 9, 7064-7071.	2.1	16
47	Virtual Screening for the Discovery of Active Principles from Natural Products. , 2018, , 333-364.		7
48	Uncovering new disease indications for G-protein coupled receptors and their endogenous ligands. BMC Bioinformatics, 2018, 19, 345.	1.2	10
49	G Protein-Coupled Receptor Systems as Crucial Regulators of DNA Damage Response Processes. International Journal of Molecular Sciences, 2018, 19, 2919.	1.8	26
50	Expression map of 78 brain-expressed mouse orphan GPCRs provides a translational resource for neuropsychiatric research. Communications Biology, 2018, 1, 102.	2.0	49
51	Exploring the free-energy landscape of GPCR activation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10327-10332.	3.3	43
52	Fluorescent probes for G-protein-coupled receptor drug discovery. Expert Opinion on Drug Discovery, 2018, 13, 933-947.	2.5	37
53	Structure-activity profiling of alkaloid natural product pharmacophores against a Schistosoma serotonin receptor. International Journal for Parasitology: Drugs and Drug Resistance, 2018, 8, 550-558.	1.4	11
54	Structure-Based Identification of Potent Natural Product Chemotypes as Cannabinoid Receptor 1 Inverse Agonists. Molecules, 2018, 23, 2630.	1.7	14
55	Development of an antibody fragment that stabilizes GPCR/G-protein complexes. Nature Communications, 2018, 9, 3712.	5.8	157
56	Computational systems biology approach to identify novel pharmacological targets for diabetic retinopathy. Biochemical Pharmacology, 2018, 158, 13-26.	2.0	43
57	Toward an understanding of the structural basis of allostery in muscarinic acetylcholine receptors. Journal of General Physiology, 2018, 150, 1360-1372.	0.9	38

#	Article	IF	Citations
58	Calcium and Nuclear Signaling in Prostate Cancer. International Journal of Molecular Sciences, 2018, 19, 1237.	1.8	24
59	Genomics, GPCRs and new targets for the control of insect pests and vectors. Current Opinion in Insect Science, 2018, 30, 99-106.	2.2	35
60	Design, synthesis, and biological evaluations of phenylpropiolic acid derivatives as novel GPR40 agonists. European Journal of Medicinal Chemistry, 2018, 158, 123-133.	2.6	10
61	Therapeutic Targeting of Endosomal G-Protein-Coupled Receptors. Trends in Pharmacological Sciences, 2018, 39, 879-891.	4.0	103
62	American Gut: an Open Platform for Citizen Science Microbiome Research. MSystems, 2018, 3, .	1.7	604
63	Expression of recombinant proteins in insect and mammalian cells. Methods, 2018, 147, 40-49.	1.9	53
64	GalaxyGPCRloop: Template-Based and Ab Initio Structure Sampling of the Extracellular Loops of G-Protein-Coupled Receptors. Journal of Chemical Information and Modeling, 2018, 58, 1234-1243.	2.5	10
66	G protein-coupled receptors in arthropod vectors: omics and pharmacological approaches to elucidate ligand-receptor interactions and novel organismal functions. Current Opinion in Insect Science, 2018, 29, 12-20.	2.2	28
67	Structure-activity relationships of imidazothiazinones and analogs as antagonists of the cannabinoid-activated orphan G protein-coupled receptor GPR18. European Journal of Medicinal Chemistry, 2018, 155, 381-397.	2.6	22
68	Pharmacophore-based tailoring of biphenyl amide derivatives as selective 5-hydroxytryptamine 2B receptor antagonists. MedChemComm, 2018, 9, 1069-1075.	3.5	4
69	Emerging patents in the therapeutic areas of glioma and glioblastoma. Expert Opinion on Therapeutic Patents, 2018, 28, 573-590.	2.4	12
70	Biased Ligands of G Protein-Coupled Receptors (GPCRs): Structureâ€“Functional Selectivity Relationships (SFSRs) and Therapeutic Potential. Journal of Medicinal Chemistry, 2018, 61, 9841-9878.	2.9	95
71	Mutant GNAS drives pancreatic tumourigenesis by inducing PKA-mediated SIK suppression and reprogramming lipid metabolism. Nature Cell Biology, 2018, 20, 811-822.	4.6	124
72	Structural insights into G-protein-coupled receptor allostery. Nature, 2018, 559, 45-53.	13.7	255
73	Photoswitching the Efficacy of a Smallâ€Molecule Ligand for a Peptidergic GPCR: from Antagonism to Agonism. Angewandte Chemie, 2018, 130, 11782-11786.	1.6	4
74	Casein kinase 1Î±: biological mechanisms and theranostic potential. Cell Communication and Signaling, 2018, 16, 23.	2.7	78
75	Pharmacology of central octopaminergic and muscarinic pathways in Drosophila melanogaster larvae: Assessing the target potential of GPCRs. Pesticide Biochemistry and Physiology, 2018, 151, 53-58.	1.6	13
76	Exploring G Protein-Coupled Receptors (GPCRs) Ligand Space via Cheminformatics Approaches: Impact on Rational Drug Design. Frontiers in Pharmacology, 2018, 9, 128.	1.6	105

#	Article	IF	Citations
77	GPCR-SAS: A web application for statistical analyses on G protein-coupled receptors sequences. PLoS ONE, 2018, 13, e0199843.	1.1	7
78	An incretin-based tri-agonist promotes superior insulin secretion from murine pancreatic islets via PLC activation. Cellular Signalling, 2018, 51, 13-22.	1.7	13
79	GPCRs in NLRP3 Inflammasome Activation, Regulation, and Therapeutics. Trends in Pharmacological Sciences, 2018, 39, 798-811.	4.0	47
80	Recent Trends and Applications of Molecular Modeling in GPCRâ€“Ligand Recognition and Structure-Based Drug Design. International Journal of Molecular Sciences, 2018, 19, 2105.	1.8	21
81	3-(2-Carboxyethyl)indole-2-carboxylic Acid Derivatives: Structural Requirements and Properties of Potent Agonists of the Orphan G Protein-Coupled Receptor GPR17. Journal of Medicinal Chemistry, 2018, 61, 8136-8154.	2.9	19
82	Allosteric sodium binding cavity in GPR3: a novel player in modulation of AÎ² production. Scientific Reports, 2018, 8, 11102.	1.6	13
83	Exploring a new ligand binding site of G protein-coupled receptors. Chemical Science, 2018, 9, 6480-6489.	3.7	37
84	Discovery, Synthesis, Pharmacological Profiling, and Biological Characterization of Brintonamides Aâ€“E, Novel Dual Protease and GPCR Modulators from a Marine Cyanobacterium. Journal of Medicinal Chemistry, 2018, 61, 6364-6378.	2.9	19
85	PtdIns(4,5)P2 stabilizes active states of GPCRs and enhances selectivity of G-protein coupling. Nature, 2018, 559, 423-427.	13.7	236
86	Structureâ€“activity relationship and conformational studies of the natural product cyclic depsipeptides YM-254890 and FR900359. European Journal of Medicinal Chemistry, 2018, 156, 847-860.	2.6	24
87	e-Bitter: Bitterant Prediction by the Consensus Voting From the Machine-Learning Methods. Frontiers in Chemistry, 2018, 6, 82.	1.8	43
88	Making Sense of Pharmacology: Inverse Agonism and Functional Selectivity. International Journal of Neuropsychopharmacology, 2018, 21, 962-977.	1.0	102
89	Mechanisms of signalling and biased agonism in G protein-coupled receptors. Nature Reviews Molecular Cell Biology, 2018, 19, 638-653.	16.1	457
90	Binding kinetics of cariprazine and aripiprazole at the dopamine D3 receptor. Scientific Reports, 2018, 8, 12509.	1.6	29
91	Expanding the Genetic Code to Study Proteinâ€“Protein Interactions. Angewandte Chemie - International Edition, 2018, 57, 14350-14361.	7.2	84
92	Age-related change of GLP-1R expression in rats can be detected by [18F]AlF-NOTA-MAL-Cys39-exendin-4. Brain Research, 2018, 1698, 213-219.	1.1	10
93	Expanding the Genetic Code to Study Proteinâ€“Protein Interactions. Angewandte Chemie, 2018, 130, 14548-14559.	1.6	13
94	A Large Multiethnic Genome-Wide Association Study of Adult Body Mass Index Identifies Novel Loci. Genetics, 2018, 210, 499-515.	1.2	131

#	Article	IF	Citations
95	Importance of GPCR-Mediated Microglial Activation in Alzheimerâ€™s Disease. Frontiers in Cellular Neuroscience, 2018, 12, 258.	1.8	31
96	G proteinâ€“coupled receptor kinases (GRKs) orchestrate biased agonism at the Î² ₂ -adrenergic receptor. Science Signaling, 2018, 11, .	1.6	47
97	Tuning Vector Stability and Integration Frequency Elevates Functional GPCR Production and Homogeneity in Saccharomyces cerevisiae. ACS Synthetic Biology, 2018, 7, 1763-1772.	1.9	6
98	Reliable Analysis of the Interaction between Specific Ligands and Immobilized Beta-2-Adrenoceptor by Adsorption Energy Distribution. Analytical Chemistry, 2018, 90, 7903-7911.	3.2	28
99	Photoswitching the Efficacy of a Smallâ€Molecule Ligand for a Peptidergic GPCR: from Antagonism to Agonism. Angewandte Chemie - International Edition, 2018, 57, 11608-11612.	7.2	29
100	Insights into the Allosteric Mechanism of Setmelanotide (RM-493) as a Potent and First-in-Class Melanocortin-4 Receptor (MC4R) Agonist To Treat Rare Genetic Disorders of Obesity through an in Silico Approach. ACS Chemical Neuroscience, 2019, 10, 1055-1065.	1.7	20
101	Allosteric Modulation of Class A GPCRs: Targets, Agents, and Emerging Concepts. Journal of Medicinal Chemistry, 2019, 62, 88-127.	2.9	109
102	Designing Functionally Selective Noncatechol Dopamine D₁ Receptor Agonists with Potent In Vivo Antiparkinsonian Activity. ACS Chemical Neuroscience, 2019, 10, 4160-4182.	1.7	21
103	NMR investigation of proteinâ€“ligand interactions for G-protein coupled receptors. Future Medicinal Chemistry, 2019, 11, 1811-1825.	1.1	3
104	Structure and dynamics of G protein-coupled receptorâ€“bound ghrelin reveal the critical role of the octanoyl chain. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17525-17530.	3.3	53
105	Conformational Plasticity of Human Protease-Activated Receptor 1 upon Antagonist- and Agonist-Binding. Structure, 2019, 27, 1517-1526.e3.	1.6	8
106	The Biological and Clinical Relevance of G Protein-Coupled Receptors to the Outcomes of Hematopoietic Stem Cell Transplantation: A Systematized Review. International Journal of Molecular Sciences, 2019, 20, 3889.	1.8	2
107	Matrix Metalloproteases as Influencers of the Cellsâ€™ Social Media. International Journal of Molecular Sciences, 2019, 20, 3847.	1.8	62
108	Synthetic Biology Goes Cell-Free. BMC Biology, 2019, 17, 64.	1.7	79
109	Structural Basis for Allosteric Ligand Recognition in the Human CC Chemokine Receptor 7. Cell, 2019, 178, 1222-1230.e10.	13.5	81
110	Targeting GPCRs Activated by Fatty Acid-Derived Lipids in Type 2 Diabetes. Trends in Molecular Medicine, 2019, 25, 915-929.	3.5	32
111	High-throughput identification of peptide agonists against GPCRs by co-culture of mammalian reporter cells and peptide-secreting yeast cells using droplet microfluidics. Scientific Reports, 2019, 9, 10920.	1.6	16
112	Knowledge Based Helix Angle and Residue Distance Restraint Free Energy Terms of GPCRs. Lecture Notes in Computer Science, 2019, , 170-176.	1.0	0

#	Article	IF	Citations
113	Toward Understanding the Impact of Dimerization Interfaces in Angiotensin II Type 1 Receptor. Journal of Chemical Information and Modeling, 2019, 59, 4314-4327.	2.5	13
114	PBI-4050 via GPR40 activation improves adenine-induced kidney injury in mice. Clinical Science, 2019, 133, 1587-1602.	1.8	8
115	Precise modelling and interpretation of bioactivities of ligands targeting G protein-coupled receptors. Bioinformatics, 2019, 35, i324-i332.	1.8	12
116	Probing the Existence of a Metastable Binding Site at the Î²₂-Adrenergic Receptor with Homobivalent Bitopic Ligands. Journal of Medicinal Chemistry, 2019, 62, 7806-7839.	2.9	9
117	Mechanisms of PAR-1 mediated kinase receptor transactivation: Smad linker region phosphorylation. Journal of Cell Communication and Signaling, 2019, 13, 539-548.	1.8	17
118	Adipocyte Gs but not Gi signaling regulates whole-body glucose homeostasis. Molecular Metabolism, 2019, 27, 11-21.	3.0	25
119	The role of GPCRs in bone diseases and dysfunctions. Bone Research, 2019, 7, 19.	5.4	58
120	Specific TBC Domain-Containing Proteins Control the ER-Golgi-Plasma Membrane Trafficking of GPCRs. Cell Reports, 2019, 28, 554-566.e4.	2.9	42
121	On the internal correlations of protein sequences probed by non-alignment methods: Novel signatures for drug and antibody targets via the Burrows-Wheeler Transform. Chemometrics and Intelligent Laboratory Systems, 2019, 193, 103809.	1.8	0
122	CETSA beyond Soluble Targets: a Broad Application to Multipass Transmembrane Proteins. ACS Chemical Biology, 2019, 14, 1913-1920.	1.6	55
123	Cryptic pocket formation underlies allosteric modulator selectivity at muscarinic GPCRs. Nature Communications, 2019, 10, 3289.	5.8	47
124	GPCRs in Autocrine and Paracrine Regulations. Frontiers in Endocrinology, 2019, 10, 428.	1.5	21
125	In vitro affinity maturation of antibody against membrane-bound GPCR molecules. Applied Microbiology and Biotechnology, 2019, 103, 7703-7717.	1.7	7
126	Revisiting the Allosteric Regulation of Sodium Cation on the Binding of Adenosine at the Human A2A Adenosine Receptor: Insights from Supervised Molecular Dynamics (SuMD) Simulations. Molecules, 2019, 24, 2752.	1.7	14
127	Mechanism of Î² ₂ AR regulation by an intracellular positive allosteric modulator. Science, 2019, 364, 1283-1287.	6.0	82
128	SeQuery: an interactive graph database for visualizing the GPCR superfamily. Database: the Journal of Biological Databases and Curation, 2019, 2019, .	1.4	6
129	Molecular pharmacology of metabotropic receptors targeted by neuropsychiatric drugs. Nature Structural and Molecular Biology, 2019, 26, 535-544.	3.6	45
130	VEGAS as a Platform for Facile Directed Evolution in Mammalian Cells. Cell, 2019, 178, 748-761.e17.	13.5	68

#	Article	IF	Citations
131	The GNAS SNP c.393C>T (rs7121) as a marker for disease progression and survival in cancer. Pharmacogenomics, 2019, 20, 553-562.	0.6	11
132	Below the Surface: IGF-1R Therapeutic Targeting and Its Endocytic Journey. Cells, 2019, 8, 1223.	1.8	29
133	Discovery of Human Signaling Systems: Pairing Peptides to G Protein-Coupled Receptors. Cell, 2019, 179, 895-908.e21.	13.5	157
134	CTCF-dependent chromatin boundaries formed by asymmetric nucleosome arrays with decreased linker length. Nucleic Acids Research, 2019, 47, 11181-11196.	6.5	44
135	Unraveling allosteric landscapes of allosterome with ASD. Nucleic Acids Research, 2020, 48, D394-D401.	6.5	29
136	A pH-responsive nanoparticle targets the neurokinin 1 receptor in endosomes to prevent chronic pain. Nature Nanotechnology, 2019, 14, 1150-1159.	15.6	103
137	Rare-variant pathogenicity triage and inclusion of synonymous variants improves analysis of disease associations of orphan G proteinâ€“coupled receptors. Journal of Biological Chemistry, 2019, 294, 18109-18121.	1.6	14
138	Selective YAP/TAZ inhibition in fibroblasts via dopamine receptor D1 agonism reverses fibrosis. Science Translational Medicine, 2019, 11, .	5.8	134
139	A Chemosensory GPCR as a Potential Target to Control the Root-Knot Nematode Meloidogyne incognita Parasitism in Plants. Molecules, 2019, 24, 3798.	1.7	11
140	Excited-state relaxation processes of three newly synthesized multi-branched alkyl-triphenylamine end-capped triazines. Chemical Physics Letters, 2019, 736, 136800.	1.2	0
141	Information Theory: New Look at Oncogenic Signaling Pathways. Trends in Cell Biology, 2019, 29, 862-875.	3.6	30
142	Spatial regulation of GPR64/ADGRG2 signaling by Î²â€arrestins and GPCR kinases. Annals of the New York Academy of Sciences, 2019, 1456, 26-43.	1.8	18
143	Neurotensin receptor 1 is a new therapeutic target for human undifferentiated pleomorphic sarcoma growth. Molecular Carcinogenesis, 2019, 58, 2230-2240.	1.3	3
144	Location and Cell-Type-Specific Bias of Metabotropic Glutamate Receptor, mGlu₅, Negative Allosteric Modulators. ACS Chemical Neuroscience, 2019, 10, 4558-4570.	1.7	12
145	GPR39 agonist TC-G 1008 promotes osteoblast differentiation and mineralization in MC3T3-E1 cells. Artificial Cells, Nanomedicine and Biotechnology, 2019, 47, 3569-3576.	1.9	19
146	Adhesion G protein-coupled receptors: opportunities for drug discovery. Nature Reviews Drug Discovery, 2019, 18, 869-884.	21.5	56
147	G Protein-Coupled Receptor Systems and Their Role in Cellular Senescence. Computational and Structural Biotechnology Journal, 2019, 17, 1265-1277.	1.9	28
148	G protein-coupled receptors in acquired epilepsy: Druggability and translatability. Progress in Neurobiology, 2019, 183, 101682.	2.8	34

#	Article	IF	Citations
149	Extramembranous Regions in G Protein-Coupled Receptors: Cinderella in Receptor Biology?. Journal of Membrane Biology, 2019, 252, 483-497.	1.0	23
150	Peptide/Receptor Co-evolution Explains the Lipolytic Function of the Neuropeptide TLQP-21. Cell Reports, 2019, 28, 2567-2580.e6.	2.9	20
151	ELFN2 is a postsynaptic cell adhesion molecule with essential roles in controlling group III mGluRs in the brain and neuropsychiatric behavior. Molecular Psychiatry, 2019, 24, 1902-1919.	4.1	28
152	A Biased Agonist at Immunometabolic Receptor GPR84 Causes Distinct Functional Effects in Macrophages. ACS Chemical Biology, 2019, 14, 2055-2064.	1.6	27
153	Presence of MrgprD within the gastrointestinal wall: reality or fake?. Cell and Tissue Research, 2019, 378, 555-558.	1.5	8
154	Recent Insights from Molecular Dynamics Simulations for G Protein-Coupled Receptor Drug Discovery. International Journal of Molecular Sciences, 2019, 20, 4237.	1.8	22
155	Data-Driven Construction of Antitumor Agents with Controlled Polypharmacology. Journal of the American Chemical Society, 2019, 141, 15700-15709.	6.6	12
156	Microglial Drug Targets in AD: Opportunities and Challenges in Drug Discovery and Development. Frontiers in Pharmacology, 2019, 10, 840.	1.6	25
157	Emerging Roles for G-protein Coupled Receptors in Development and Activation of Macrophages. Frontiers in Immunology, 2019, 10, 2031.	2.2	23
158	How an activation signal is transmitted through an excitatory receptor. Nature, 2019, 566, 42-43.	13.7	0
159	Immunohistochemical validation of COL3A1, GPR158 and PITHD1 as prognostic biomarkers in early-stage ovarian carcinomas. BMC Cancer, 2019, 19, 928.	1.1	46
160	Structural and Dynamical Basis of G Protein Inhibition by YM-254890 and FR900359: An Inhibitor in Action. Journal of Chemical Information and Modeling, 2019, 59, 4361-4373.	2.5	22
161	Nuclear G-protein-coupled receptors as putative novel pharmacological targets. Drug Discovery Today, 2019, 24, 2192-2201.	3.2	22
162	Beyond the Ligand: Extracellular and Transcellular G Proteinâ€“Coupled Receptor Complexes in Physiology and Pharmacology. Pharmacological Reviews, 2019, 71, 503-519.	7.1	36
163	Biased Signaling of CCL21 and CCL19 Does Not Rely on N-Terminal Differences, but Markedly on the Chemokine Core Domains and Extracellular Loop 2 of CCR7. Frontiers in Immunology, 2019, 10, 2156.	2.2	18
164	Reconstruction of apo A2A receptor activation pathways reveal ligand-competent intermediates and state-dependent cholesterol hotspots. Scientific Reports, 2019, 9, 14199.	1.6	24
165	Harnessing Ion-Binding Sites for GPCR Pharmacology. Pharmacological Reviews, 2019, 71, 571-595.	7.1	87
166	Association of FSHR missense mutations with female infertility, in silico investigation of their molecular significance and exploration of possible treatments using virtual screening and molecular dynamics. Analytical Biochemistry, 2019, 586, 113433.	1.1	14

#	Article	IF	Citations
167	The role of water and protein flexibility in the structure-based virtual screening of allosteric GPCR modulators: an mGlu5 receptor case study. Journal of Computer-Aided Molecular Design, 2019, 33, 787-797.	1.3	9
168	An online resource for GPCR structure determination and analysis. Nature Methods, 2019, 16, 151-162.	9.0	108
169	Sequential ligand- and structure-based virtual screening approach for the identification of potential G protein-coupled estrogen receptor-1 (GPER-1) modulators. RSC Advances, 2019, 9, 2525-2538.	1.7	25
170	Allosteric Methods and Their Applications: Facilitating the Discovery of Allosteric Drugs and the Investigation of Allosteric Mechanisms. Accounts of Chemical Research, 2019, 52, 492-500.	7.6	132
171	NMR analysis of GPCR conformational landscapes and dynamics. Molecular and Cellular Endocrinology, 2019, 484, 69-77.	1.6	30
172	Nanobodies: New avenues for imaging, stabilizing and modulating GPCRs. Molecular and Cellular Endocrinology, 2019, 484, 15-24.	1.6	50
173	Bivalent Ligands for Protein Degradation in Drug Discovery. Computational and Structural Biotechnology Journal, 2019, 17, 160-176.	1.9	81
174	The Role of Heat Shock Proteins in Regulating Receptor Signal Transduction. Molecular Pharmacology, 2019, 95, 468-474.	1.0	37
175	The leucokinin-like peptide receptor from the cattle fever tick, Rhipicephalus microplus, is localized in the midgut periphery and receptor silencing with validated double-stranded RNAs causes a reproductive fitness cost. International Journal for Parasitology, 2019, 49, 287-299.	1.3	16
176	Opposing Actions of Adrenocorticotropic Hormone and Glucocorticoids on UCP1-Mediated Respiration in Brown Adipocytes. Frontiers in Physiology, 2018, 9, 1931.	1.3	21
177	Regulation of Gpr173 expression, a putative phoenixin receptor, by saturated fatty acid palmitate and endocrine-disrupting chemical bisphenol A through a p38-mediated mechanism in immortalized hypothalamic neurons. Molecular and Cellular Endocrinology, 2019, 485, 54-60.	1.6	18
178	Distinct Roles of Extracellular Domains in the Epstein-Barr Virus-Encoded BILF1 Receptor for Signaling and Major Histocompatibility Complex Class I Downregulation. MBio, 2019, 10, .	1.8	18
179	Pathway crosstalk perturbation network modeling for identification of connectivity changes induced by diabetic neuropathy and pioglitazone. BMC Systems Biology, 2019, 13, 1.	3.0	28
180	Exploring membrane organization at varying spatiotemporal resolutions utilizing fluorescence-based approaches: implications in membrane biology. Physical Chemistry Chemical Physics, 2019, 21, 11554-11563.	1.3	13
181	Heteromerization fingerprints between bradykinin B2 and thromboxane TP receptors in native cells. PLoS ONE, 2019, 14, e0216908.	1.1	13
182	G-Protein Coupled Receptor Targeting on Myeloid Cells in Atherosclerosis. Frontiers in Pharmacology, 2019, 10, 531.	1.6	15
183	Light-activated chimeric GPCRs: limitations and opportunities. Current Opinion in Structural Biology, 2019, 57, 196-203.	2.6	28
184	Characterizing Eckol as a Therapeutic Aid: A Systematic Review. Marine Drugs, 2019, 17, 361.	2.2	39

#	Article	IF	Citations
185	Evaluation of Functional Selectivity of Haloperidol, Clozapine, and LASSBio-579, an Experimental Compound With Antipsychotic-Like Actions in Rodents, at G Protein and Arrestin Signaling Downstream of the Dopamine D2 Receptor. Frontiers in Pharmacology, 2019, 10, 628.	1.6	2
186	Rearrangement of the transmembrane domain interfaces associated with the activation of a GPCR hetero-oligomer. Nature Communications, 2019, 10, 2765.	5.8	40
187	Modeling Relational Drug-Target-Disease Interactions via Tensor Factorization with Multiple Web Sources. , 2019, , .		19
188	Illuminating the Onco-GPCRome: Novel G proteinâ€“coupled receptor-driven oncocrine networks and targets for cancer immunotherapy. Journal of Biological Chemistry, 2019, 294, 11062-11086.	1.6	129
189	Masâ€related G proteinâ€coupled receptor C11 (Mrgprc11) induces visceral hypersensitivity in the mouse colon: A novel target in gut nociception?. Neurogastroenterology and Motility, 2019, 31, e13623.	1.6	17
190	A piggyBac-based TANGO GFP assay for high throughput screening of GPCR ligands in live cells. Cell Communication and Signaling, 2019, 17, 49.	2.7	5
191	An exploration strategy improves the diversity of de novo ligands using deep reinforcement learning: a case for the adenosine A2A receptor. Journal of Cheminformatics, 2019, 11, 35.	2.8	58
192	Understanding Ligand Binding to G-Protein Coupled Receptors Using Multiscale Simulations. Frontiers in Molecular Biosciences, 2019, 6, 29.	1.6	30
193	Selection of Biophysical Methods for Characterisation of Membrane Proteins. International Journal of Molecular Sciences, 2019, 20, 2605.	1.8	21
194	Illuminating G-Protein-Coupling Selectivity of GPCRs. Cell, 2019, 177, 1933-1947.e25.	13.5	387
195	Protein kinase D and GÎ²Î³ mediate sustained nociceptive signaling by biased agonists of protease-activated receptor-2. Journal of Biological Chemistry, 2019, 294, 10649-10662.	1.6	10
196	PRECOG: PREdicting COupling probabilities of G-protein coupled receptors. Nucleic Acids Research, 2019, 47, W395-W401.	6.5	20
197	GPCR drug discovery-moving beyond the orthosteric to the allosteric domain. Advances in Pharmacology, 2019, 86, 1-20.	1.2	14
198	Site-Specific Immobilization of Î²₂-AR Using O⁶-Benzylguanine Derivative-Functionalized Supporter for High-Throughput Receptor-Targeting Lead Discovery. Analytical Chemistry, 2019, 91, 7385-7393.	3.2	29
199	The role of NMR spectroscopy in mapping the conformational landscape of GPCRs. Current Opinion in Structural Biology, 2019, 57, 145-156.	2.6	43
200	Differentiating between Inactive and Active States of Rhodopsin by Atomic Force Microscopy in Native Membranes. Analytical Chemistry, 2019, 91, 7226-7235.	3.2	25
201	Function-related conformational dynamics of G proteinâ€“coupled receptors revealed by NMR. Biophysical Reviews, 2019, 11, 409-418.	1.5	27
202	Importance of protein dynamics in the structure-based drug discovery of class A G protein-coupled receptors (GPCRs). Current Opinion in Structural Biology, 2019, 55, 147-153.	2.6	33

#	Article	IF	Citations
203	Local membrane charge regulates Î²2 adrenergic receptor coupling to Gi3. Nature Communications, 2019, 10, 2234.	5.8	57
204	Molecularly Imprinted Materials for Selective Biological Recognition. Macromolecular Rapid Communications, 2019, 40, e1900096.	2.0	71
205	Investigating targets for neuropharmacological intervention by molecular dynamics simulations. Biochemical Society Transactions, 2019, 47, 909-918.	1.6	1
206	Clathrin and GRK2/3 inhibitors block Î´-opioid receptor internalization in myenteric neurons and inhibit neuromuscular transmission in the mouse colon. American Journal of Physiology - Renal Physiology, 2019, 317, G79-G89.	1.6	9
207	Cartography of rhodopsin-like G protein-coupled receptors across vertebrate genomes. Scientific Reports, 2019, 9, 7058.	1.6	9
208	Drug discovery strategies for acute radiation syndrome. Expert Opinion on Drug Discovery, 2019, 14, 701-715.	2.5	25
209	A Metadynamics-Based Protocol for the Determination of GPCR-Ligand Binding Modes. International Journal of Molecular Sciences, 2019, 20, 1970.	1.8	17
210	Human Gain-of-Function MC4R Variants Show Signaling Bias and Protect against Obesity. Cell, 2019, 177, 597-607.e9.	13.5	192
211	Monitoring the Aggregation of GPCRs by Fluorescence Microscopy. Methods in Molecular Biology, 2019, 1947, 289-302.	0.4	2
212	New insights into the regulation of the actin cytoskeleton dynamics by GPCR/Î²-arrestin in cancer invasion and metastasis. International Review of Cell and Molecular Biology, 2019, 346, 129-155.	1.6	16
213	Development and application of a high-content virion display human GPCR array. Nature Communications, 2019, 10, 1997.	5.8	13
214	Advantages and shortcomings of cell-based electrical impedance measurements as a GPCR drug discovery tool. Biosensors and Bioelectronics, 2019, 137, 33-44.	5.3	20
215	Chemogenetics defines receptor-mediated functions of short chain free fatty acids. Nature Chemical Biology, 2019, 15, 489-498.	3.9	52
216	Analysis of tractable allosteric sites in G protein-coupled receptors. Scientific Reports, 2019, 9, 6180.	1.6	31
217	Characterising GPCRâ€“ligand interactions using a fragment molecular orbital-based approach. Current Opinion in Structural Biology, 2019, 55, 85-92.	2.6	13
218	Ensemble-Based Steered Molecular Dynamics Predicts Relative Residence Time of A_{2A} Receptor Binders. Journal of Chemical Theory and Computation, 2019, 15, 3316-3330.	2.3	39
219	Peeking at G-protein-coupled receptors through the molecular dynamics keyhole. Future Medicinal Chemistry, 2019, 11, 599-615.	1.1	11
220	Membrane Proteinâ€“Lipid Interactions Probed Using Mass Spectrometry. Annual Review of Biochemistry, 2019, 88, 85-111.	5.0	121

#	Article	IF	Citations
221	Beyond the Flavour: The Potential Druggability of Chemosensory G Protein-Coupled Receptors. International Journal of Molecular Sciences, 2019, 20, 1402.	1.8	53
222	Cell-free expression, purification and characterization of Drosophila melanogaster odorant receptor OR42a and its co-receptor. Protein Expression and Purification, 2019, 159, 27-33.	0.6	5
223	A Scalable, Multiplexed Assay for Decoding GPCR-Ligand Interactions with RNA Sequencing. Cell Systems, 2019, 8, 254-260.e6.	2.9	22
224	Significantly different effects of tetrahydroberberrubine enantiomers on dopamine D1/D2 receptors revealed by experimental study and integrated in silico simulation. Journal of Computer-Aided Molecular Design, 2019, 33, 447-459.	1.3	6
225	Split luciferase-based assay for simultaneous analyses of the ligand concentration- and time-dependent recruitment of Î²-arrestin2. Analytical Biochemistry, 2019, 573, 8-16.	1.1	10
226	Nanobodies detecting and modulating GPCRs outside in and inside out. Current Opinion in Cell Biology, 2019, 57, 115-122.	2.6	41
227	Exciting advances in GPCR-based drugs discovery for treating metabolic disease and future perspectives. Expert Opinion on Drug Discovery, 2019, 14, 421-431.	2.5	11
228	Strategies for the discovery of biased GPCR ligands. Drug Discovery Today, 2019, 24, 1031-1037.	3.2	33
229	Adhesion G-protein coupled receptors: Implications for metabolic function. , 2019, 198, 123-134.		16
230	MultiBac: Baculovirus-Mediated Multigene DNA Cargo Delivery in Insect and Mammalian Cells. Viruses, 2019, 11, 198.	1.5	25
231	Computational design for thermostabilization of GPCRs. Current Opinion in Structural Biology, 2019, 55, 25-33.	2.6	12
232	Automated discovery of GPCR bioactive ligands. Current Opinion in Structural Biology, 2019, 55, 17-24.	2.6	15
233	Adhesion G Protein-Coupled Receptors as Drug Targets for Neurological Diseases. Trends in Pharmacological Sciences, 2019, 40, 278-293.	4.0	53
234	GPR158 in the Visual System: Homeostatic Role in Regulation of Intraocular Pressure. Journal of Ocular Pharmacology and Therapeutics, 2019, 35, 203-215.	0.6	6
235	Participation of GÎ±i-Adenylate Cyclase and ERK1/2 in Mas Receptor Signaling Pathways. Frontiers in Pharmacology, 2019, 10, 146.	1.6	9
236	Eckol as a Potential Therapeutic against Neurodegenerative Diseases Targeting Dopamine D3/D4 Receptors. Marine Drugs, 2019, 17, 108.	2.2	25
237	Critical role of the finger loop in arrestin binding to the receptors. PLoS ONE, 2019, 14, e0213792.	1.1	17
238	State of the art of Smo antagonists for cancer therapy: advances in the target receptor and new ligand structures. Future Medicinal Chemistry, 2019, 11, 617-638.	1.1	19

#	Article	IF	Citations
239	Chemical synthesis, microbial transformation and biological evaluation of tetrahydroprotoberberines as dopamine D1/D2 receptor ligands. Bioorganic and Medicinal Chemistry, 2019, 27, 2100-2111.	1.4	10
240	Gi/o-Protein Coupled Receptors in the Aging Brain. Frontiers in Aging Neuroscience, 2019, 11, 89.	1.7	60
241	GPR34 in spinal microglia exacerbates neuropathic pain in mice. Journal of Neuroinflammation, 2019, 16, 82.	3.1	35
242	Laser Doppler Flowmetry to Study the Regulation of Cerebral Blood Flow by G Protein-Coupled Receptors in Rodents. Methods in Molecular Biology, 2019, 1947, 377-387.	0.4	3
243	Expression and Purification of a Functional E. coli 13CH3-Methionine-Labeled Thermostable Neurotensin Receptor 1 Variant for Solution NMR Studies. Methods in Molecular Biology, 2019, 1947, 31-55.	0.4	8
244	Biased Signaling of the Mu Opioid Receptor Revealed in Native Neurons. IScience, 2019, 14, 47-57.	1.9	65
245	Î²-Arrestins: Multitask Scaffolds Orchestrating the Where and When in Cell Signalling. Methods in Molecular Biology, 2019, 1957, 9-55.	0.4	29
246	Optical approaches for single-cell and subcellular analysis of GPCRâ€“G protein signaling. Analytical and Bioanalytical Chemistry, 2019, 411, 4481-4508.	1.9	9
247	High affinity CXCR4 inhibitors generated by linking low affinity peptides. European Journal of Medicinal Chemistry, 2019, 172, 174-185.	2.6	8
248	Cryo-EM structures of GPCRs coupled to Gs, Gi and Go. Molecular and Cellular Endocrinology, 2019, 488, 1-13.	1.6	114
249	Multiscale simulations on human Frizzled and Taste2 GPCRs. Current Opinion in Structural Biology, 2019, 55, 8-16.	2.6	9
250	Computer aided protein engineering to enhance the thermo-stability of CXCR1- T4 lysozyme complex. Scientific Reports, 2019, 9, 5317.	1.6	3
251	Wolfberryâ€Derived Zeaxanthin Dipalmitate Attenuates Ethanolâ€Induced Hepatic Damage. Molecular Nutrition and Food Research, 2019, 63, e1801339.	1.5	28
252	G-Proteinâ€“Coupled Receptors Are Dynamic Regulators of Digestion and Targets for Digestive Diseases. Gastroenterology, 2019, 156, 1600-1616.	0.6	22
253	Nature-Derived Peptides: A Growing Niche for GPCR Ligand Discovery. Trends in Pharmacological Sciences, 2019, 40, 309-326.	4.0	41
254	Label-free dynamic mass redistribution analysis of endogenous adrenergic receptor signaling in primary preadipocytes and differentiated adipocytes. Journal of Pharmacological and Toxicological Methods, 2019, 97, 59-66.	0.3	2
255	The Endocannabinoid System as a Target in Cancer Diseases: Are We There Yet?. Frontiers in Pharmacology, 2019, 10, 339.	1.6	91
256	Emerging roles of allosteric modulators in the regulation of proteinâ€protein interactions (PPIs): A new paradigm for PPI drug discovery. Medicinal Research Reviews, 2019, 39, 2314-2342.	5.0	77

#	Article	IF	Citations
257	Discovery and synthesis of 2-amino-1-methyl-1H-imidazol-4(5H)-ones as GPCR ligands; an approach to develop breast cancer drugs via GPCR associated PAR1 and PI3Kinase inhibition mechanism. Bioorganic Chemistry, 2019, 86, 641-651.	2.0	7
258	A collage of cholesterol interaction motifs in the serotonin1A receptor: An evolutionary implication for differential cholesterol interaction. Chemistry and Physics of Lipids, 2019, 221, 184-192.	1.5	9
259	Allosteric Modalities for Membrane-Bound Receptors: Insights from Drug Hunting for Brain Diseases. Journal of Medicinal Chemistry, 2019, 62, 5979-6002.	2.9	13
260	<scp>RGS</scp> 9â€2 rescues dopamine D2 receptor levels and signaling in <scp>DYT</scp> 1 dystonia mouse models. EMBO Molecular Medicine, 2019, 11, .	3.3	44
261	Cellular signalling by primary cilia in development, organ function and disease. Nature Reviews Nephrology, 2019, 15, 199-219.	4.1	533
262	Screening and identification of a non-peptide antagonist for the peptide hormone receptor in Arabidopsis. Communications Biology, 2019, 2, 61.	2.0	6
263	How structure informs and transforms chemogenetics. Current Opinion in Structural Biology, 2019, 57, 9-16.	2.6	14
264	Allosteric Modulator Discovery: From Serendipity to Structure-Based Design. Journal of Medicinal Chemistry, 2019, 62, 6405-6421.	2.9	124
265	On-target and off-target effects of novel orthosteric and allosteric activators of GPR84. Scientific Reports, 2019, 9, 1861.	1.6	20
266	The heterotetrameric structure of the adenosine A1-dopamine D1 receptor complex: Pharmacological implication for restless legs syndrome. Advances in Pharmacology, 2019, 84, 37-78.	1.2	8
267	Discovery of Amantamide, a Selective CXCR7 Agonist from Marine Cyanobacteria. Organic Letters, 2019, 21, 1622-1626.	2.4	13
268	Recent advances in metallodrug-like molecules targeting non-coding RNAs in cancer chemotherapy. Coordination Chemistry Reviews, 2019, 387, 47-59.	9.5	30
269	Chemoconnectomics: Mapping Chemical Transmission in Drosophila. Neuron, 2019, 101, 876-893.e4.	3.8	206
270	New Routes in GPCR/Î²-Arrestin-Driven Signaling in Cancer Progression and Metastasis. Frontiers in Pharmacology, 2019, 10, 114.	1.6	38
271	G protein-coupled receptor trafficking and signaling: new insights into the enteric nervous system. American Journal of Physiology - Renal Physiology, 2019, 316, G446-G452.	1.6	6
272	Open-Boundary Molecular Mechanics/Coarse-Grained Framework for Simulations of Low-Resolution G-Protein-Coupled Receptorâ€“Ligand Complexes. Journal of Chemical Theory and Computation, 2019, 15, 2101-2109.	2.3	16
273	Monitoring GPCR-β-arrestin1/2 Interactions in Real Time Living Systems to Accelerate Drug Discovery. Journal of Visualized Experiments, 2019, , .	0.2	7
274	Trendbericht Biochemie Teil 3: AdhÃsionsâ€GPCR â€â€•Hindernisse und Perspektiven. Nachrichten Aus Der Chemie, 2019, 67, 58-61.	0.0	0

#	Article	IF	Citations
275	Collision Induced Unfolding Classifies Ligands Bound to the Integral Membrane Translocator Protein. Analytical Chemistry, 2019, 91, 15469-15476.	3.2	29
276	Computational design and characterization of nanobody-derived peptides that stabilize the active conformation of the Î²2-adrenergic receptor (Î²2-AR). Scientific Reports, 2019, 9, 16555.	1.6	11
277	Family C G-Protein-Coupled Receptors in Alzheimerâ€™s Disease and Therapeutic Implications. Frontiers in Pharmacology, 2019, 10, 1282.	1.6	20
278	A toolbox of molecular photoswitches to modulate the CXCR3 chemokine receptor with light. Beilstein Journal of Organic Chemistry, 2019, 15, 2509-2523.	1.3	13
279	Helix 8 is the essential structural motif of mechanosensitive GPCRs. Nature Communications, 2019, 10, 5784.	5.8	79
280	I8-arachnotocinâ€“an arthropod-derived G protein-biased ligand of the human vasopressin V2 receptor. Scientific Reports, 2019, 9, 19295.	1.6	7
281	Functionalized ligands targeting G protein-coupled adenosine receptors. Future Medicinal Chemistry, 2019, 11, 1673-1677.	1.1	4
282	Coevolutionary Analysis of Protein Subfamilies by Sequence Reweighting. Entropy, 2019, 21, 1127.	1.1	13
283	Emergent Concepts of Receptor Pharmacology. Handbook of Experimental Pharmacology, 2019, 260, 17-41.	0.9	10
284	Is There a Role for GPCR Agonist Radiotracers in PET Neuroimaging?. Frontiers in Molecular Neuroscience, 2019, 12, 255.	1.4	29
285	Internalized GPCRs as Potential Therapeutic Targets for the Management of Pain. Frontiers in Molecular Neuroscience, 2019, 12, 273.	1.4	27
286	Transcriptional profile of spinal dynorphin-lineage interneurons in the developing mouse. Pain, 2019, 160, 2380-2397.	2.0	15
287	The Retinoid and Non-Retinoid Ligands of the Rod Visual G Protein-Coupled Receptor. International Journal of Molecular Sciences, 2019, 20, 6218.	1.8	16
288	Novel Dielsâ€“Alder Type Adducts from Morus alba Root Bark Targeting Human Monoamine Oxidase and Dopaminergic Receptors for the Management of Neurodegenerative Diseases. International Journal of Molecular Sciences, 2019, 20, 6232.	1.8	12
289	When trafficking and signaling mix: How subcellular location shapes G proteinâ€coupled receptor activation of heterotrimeric G proteins. Traffic, 2019, 20, 130-136.	1.3	84
290	Corticotropin-Releasing Hormone Family and Their Receptors in the Cardiovascular System. Circulation Journal, 2019, 83, 261-266.	0.7	16
291	Less Exploited GPCRs in Precision Medicine: Targets for Molecular Imaging and Theranostics. Molecules, 2019, 24, 49.	1.7	13
292	Orphan Receptor GPR88 as an Emerging Neurotherapeutic Target. ACS Chemical Neuroscience, 2019, 10, 190-200.	1.7	23

#	Article	IF	Citations
293	Structural biology and structureâ€“function relationships of membrane proteins. Biochemical Society Transactions, 2019, 47, 47-61.	1.6	24
294	PathwayMap: Molecular Pathway Association with Self-Normalizing Neural Networks. Journal of Chemical Information and Modeling, 2019, 59, 1172-1181.	2.5	20
295	Crystal structures of the human neurokinin 1 receptor in complex with clinically used antagonists. Nature Communications, 2019, 10, 17.	5.8	68
296	A dynamic and screening-compatible nanoluciferase-based complementation assay enables profiling of individual GPCRâ€“G protein interactions. Journal of Biological Chemistry, 2019, 294, 4079-4090.	1.6	48
297	Recommending buprenorphine for pain management. Pain Management, 2019, 9, 13-16.	0.7	10
298	Mechanism of Hormone Peptide Activation of a GPCR: Angiotensin II Activated State of AT₁R Initiated by van der Waals Attraction. Journal of Chemical Information and Modeling, 2019, 59, 373-385.	2.5	23
299	GPCR drug discovery: integrating solution NMR data with crystal and cryo-EM structures. Nature Reviews Drug Discovery, 2019, 18, 59-82.	21.5	179
300	Seeing and sensing single G protein-coupled receptors by atomic force microscopy. Current Opinion in Cell Biology, 2019, 57, 25-32.	2.6	18
301	Neuropeptide receptors as potential pharmacological targets for obesity. , 2019, 196, 59-78.		13
302	Reinterpreting anomalous competitive binding experiments within G protein-coupled receptor homodimers using a dimer receptor model. Pharmacological Research, 2019, 139, 337-347.	3.1	15
303	Stationary Phase EPR Spectroscopy for Monitoring Membrane Protein Refolding by Conformational Response. Analytical Chemistry, 2019, 91, 1071-1079.	3.2	3
304	Measuring surface expression and endocytosis of GPCRs using whole-cell ELISA. Methods in Cell Biology, 2019, 149, 131-140.	0.5	28
305	O-linked melatonin dimers as bivalent ligands targeting dimeric melatonin receptors. Bioorganic Chemistry, 2019, 85, 349-356.	2.0	10
306	The subcellular dynamics of GPCR signaling. Molecular and Cellular Endocrinology, 2019, 483, 24-30.	1.6	47
307	New Binding Sites, New Opportunities for GPCR Drug Discovery. Trends in Biochemical Sciences, 2019, 44, 312-330.	3.7	104
308	A Critical Analysis of Molecular Mechanisms Underlying Membrane Cholesterol Sensitivity of GPCRs. Advances in Experimental Medicine and Biology, 2019, 1115, 21-52.	0.8	45
309	GPCR Allosteric Modulators: Mechanistic Advantages and Therapeutic Applications. Current Topics in Medicinal Chemistry, 2019, 18, 2002-2006.	1.0	15
310	Rationalizing Secondary Pharmacology Screening Using Human Genetic and Pharmacological Evidence. Toxicological Sciences, 2019, 167, 593-603.	1.4	17

#	Article	IF	Citations
311	Therapeutic strategies for diseases caused by loss-of-function mutations in G protein-coupled receptors. Progress in Molecular Biology and Translational Science, 2019, 161, 181-210.	0.9	6
312	The Drug Discovery Process. , 2019, , 323-371.		0
313	Hot spots for GPCR signaling: lessons from single-molecule microscopy. Current Opinion in Cell Biology, 2019, 57, 57-63.	2.6	16
314	Resolving Inflammation: Synthesis, Configurational Assignment, and Biological Evaluations of RvD1_{nâ^'3â€‰DPA}. Chemistry - A European Journal, 2019, 25, 1476-1480.	1.7	20
315	Melatonin in type 2 diabetes mellitus and obesity. Nature Reviews Endocrinology, 2019, 15, 105-125.	4.3	188
316	Design, Synthesis, and Evaluation of a Diazirine Photoaffinity Probe for Ligand-Based Receptor Capture Targeting G Proteinâ€“Coupled Receptors. Molecular Pharmacology, 2019, 95, 196-209.	1.0	15
317	CCR2 Signaling Selectively Regulates IFN-Î±: Role of Î²-Arrestin 2 in IFNAR1 Internalization. Journal of Immunology, 2019, 202, 105-118.	0.4	9
318	Insights into the Basal Activity and Activation Mechanism of the Î²1 Adrenergic Receptor Using Native Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2019, 30, 529-537.	1.2	12
319	Understanding GPCR dimerization. Methods in Cell Biology, 2019, 149, 155-178.	0.5	19
320	Simultaneous activation of muscarinic and GABAB receptors as a bidirectional target for novel antipsychotics. Behavioural Brain Research, 2019, 359, 671-685.	1.2	14
321	Small Molecule Allosteric Modulators of G-Protein-Coupled Receptors: Drugâ€“Target Interactions. Journal of Medicinal Chemistry, 2019, 62, 24-45.	2.9	114
322	Developing a Biased Unmatched Bivalent Ligand (BUmBL) Design Strategy to Target the GPCR Homodimer Allosteric Signaling (cAMP over Î²-Arrestin 2 Recruitment) Within the Melanocortin Receptors. Journal of Medicinal Chemistry, 2019, 62, 144-158.	2.9	19
323	Recent achievements in developing selective G_q inhibitors. Medicinal Research Reviews, 2020, 40, 135-157.	5.0	26
324	Constitutive internalization across therapeutically targeted GPCRs correlates with constitutive activity. Basic and Clinical Pharmacology and Toxicology, 2020, 126, 116-121.	1.2	4
325	Rational design of agonists for bitter taste receptor TAS2R14: from modeling to bench and back. Cellular and Molecular Life Sciences, 2020, 77, 531-542.	2.4	40
326	Come Fly with Me: An overview of dopamine receptors in Drosophila melanogaster. Basic and Clinical Pharmacology and Toxicology, 2020, 126, 56-65.	1.2	38
327	Pharmacology and function of the orphan GPR139 G proteinâ€coupled receptor. Basic and Clinical Pharmacology and Toxicology, 2020, 126, 35-46.	1.2	17
328	Live cell optical assay for precise characterization of receptors coupling to GÎ±12. Basic and Clinical Pharmacology and Toxicology, 2020, 126, 88-95.	1.2	3

#	Article	IF	Citations
329	G Proteinâ€“Coupled Receptor Pharmacology at the Single-Molecule Level. Annual Review of Pharmacology and Toxicology, 2020, 60, 73-87.	4.2	19
330	Lamprey Parapinopsin (â€œUVLamPâ€): a Bistable UVâ€Sensitive Optogenetic Switch for Ultrafast Control of GPCR Pathways. ChemBioChem, 2020, 21, 612-617.	1.3	30
331	A freeâ€energy landscape for the glucagonâ€like peptide 1 receptor GLP1R. Proteins: Structure, Function and Bioinformatics, 2020, 88, 127-134.	1.5	11
332	G proteinâ€coupled receptor pharmacologyâ€”The next generation. Basic and Clinical Pharmacology and Toxicology, 2020, 126, 3-4.	1.2	2
333	Biased agonism of clinically approved Î¼-opioid receptor agonists and TRV130 is not controlled by binding and signaling kinetics. Neuropharmacology, 2020, 166, 107718.	2.0	61
334	Lipid-Dependent Regulation of Ion Channels and G Proteinâ€“Coupled Receptors: Insights from Structures and Simulations. Annual Review of Pharmacology and Toxicology, 2020, 60, 31-50.	4.2	117
335	Tackling the complexities of orphan GPCR ligand discovery with rationally assisted approaches. , 2020, , 295-334.		2
336	Fragment-Based Computational Method for Designing GPCR Ligands. Journal of Chemical Information and Modeling, 2020, 60, 4339-4349.	2.5	11
337	Computer-aided GPCR drug discovery. , 2020, , 283-293.		3
338	Angiotensin II receptors. , 2020, , 415-427.		12
339	PKC and Ras are Involved in M1 Muscarinic Receptor-Mediated Modulation of AMPA Receptor GluA1 Subunit. Cellular and Molecular Neurobiology, 2020, 40, 547-554.	1.7	10
340	Structural basis of chemokine and receptor interactions: Key regulators of leukocyte recruitment in inflammatory responses. Protein Science, 2020, 29, 420-432.	3.1	40
341	G protein-coupled receptors in neurodegenerative diseases. , 2020, , 335-365.		0
342	LGR6 is a potential diagnostic and prognostic marker for esophageal squamous cell carcinoma. Journal of Clinical Laboratory Analysis, 2020, 34, e23121.	0.9	11
343	Prediction and targeting of GPCR oligomer interfaces. Progress in Molecular Biology and Translational Science, 2020, 169, 105-149.	0.9	13
344	GPCR and Alcohol-Related Behaviors in Genetically Modified Mice. Neurotherapeutics, 2020, 17, 17-42.	2.1	8
345	The five dimensions of receptor pharmacology exemplified by melatonin receptors: An opinion. Pharmacology Research and Perspectives, 2020, 8, e00556.	1.1	17
346	Multiscale modelling of drug mechanism and safety. Drug Discovery Today, 2020, 25, 519-534.	3.2	15

#	Article	IF	Citations
347	Targeting G protein-coupled receptors in cancer therapy. Advances in Cancer Research, 2020, 145, 49-97.	1.9	12
348	Exploring the Binding Mechanism of GABA_B Receptor Agonists and Antagonists through in Silico Simulations. Journal of Chemical Information and Modeling, 2020, 60, 1005-1018.	2.5	16
349	Structural diversity in ligand recognition by GPCRs. , 2020, , 43-63.		1
350	Allosteric modulators targeting GPCRs. , 2020, , 195-241.		1
351	Molecular Insights from Conformational Ensembles via Machine Learning. Biophysical Journal, 2020, 118, 765-780.	0.2	67
352	Engineering G protein-coupled receptor signalling in yeast for biotechnological and medical purposes. FEMS Yeast Research, 2020, 20, .	1.1	31
353	Genetic deletion of gpr27 alters acylcarnitine metabolism, insulin sensitivity, and glucose homeostasis in zebrafish. FASEB Journal, 2020, 34, 1546-1557.	0.2	13
354	Extended Human G-Protein Coupled Receptor Network: Cell-Type-Specific Analysis of G-Protein Coupled Receptor Signaling Pathways. Journal of Proteome Research, 2020, 19, 511-524.	1.8	12
355	Integrative Modelling of Biomolecular Complexes. Journal of Molecular Biology, 2020, 432, 2861-2881.	2.0	70
356	Bioelectronic tongue: Current status and perspectives. Biosensors and Bioelectronics, 2020, 150, 111923.	5.3	43
357	Novel approaches leading towards peptide GPCR deâ€orphanisation. British Journal of Pharmacology, 2020, 177, 961-968.	2.7	30
358	Cellâ€permeable highâ€affinity tracers for G_q proteins provide structural insights, reveal distinct binding kinetics and identify small molecule inhibitors. British Journal of Pharmacology, 2020, 177, 1898-1916.	2.7	21
359	Function and therapeutic potential of G proteinâ€coupled receptors in epididymis. British Journal of Pharmacology, 2020, 177, 5489-5508.	2.7	13
360	G-Protein coupled receptors: structure and function in drug discovery. RSC Advances, 2020, 10, 36337-36348.	1.7	29
361	Molecular evolution of a collage of cholesterol interaction motifs in transmembrane helix V of the serotonin1A receptor. Chemistry and Physics of Lipids, 2020, 232, 104955.	1.5	4
362	The role of the CCL25-CCR9 axis in beta-cell function: potential for therapeutic intervention in type 2 diabetes. Metabolism: Clinical and Experimental, 2020, 113, 154394.	1.5	12
363	Label-Free Analysis with Multiple Parameters Separates G Protein-Coupled Receptor Signaling Pathways. Analytical Chemistry, 2020, 92, 14509-14516.	3.2	2
364	Limonoids from Citrus: Chemistry, anti-tumor potential, and other bioactivities. Journal of Functional Foods, 2020, 75, 104213.	1.6	56

#	Article	IF	Citations
365	Protein-water hydrogen-bond networks of G protein-coupled receptors: Graph-based analyses of static structures and molecular dynamics. Journal of Structural Biology, 2020, 212, 107634.	1.3	34
366	A high-throughput CRISPR interference screen for dissecting functional regulators of GPCR/cAMP signaling. PLoS Genetics, 2020, 16, e1009103.	1.5	15
367	Regulators of G protein signalling as pharmacological targets for the treatment of neuropathic pain. Pharmacological Research, 2020, 160, 105148.	3.1	4
368	Controlling receptor function from the extracellular vestibule of G-protein coupled receptors. Chemical Communications, 2020, 56, 14167-14170.	2.2	11
369	Immobilization of arrestin-3 on different biosensor platforms for evaluating GPCR binding. Physical Chemistry Chemical Physics, 2020, 22, 24086-24096.	1.3	5
370	High-quality nuclear genome for Sarcoptes scabieiâ€"A critical resource for a neglected parasite. PLoS Neglected Tropical Diseases, 2020, 14, e0008720.	1.3	25
371	Capturing Peptideâ€"GPCR Interactions and Their Dynamics. Molecules, 2020, 25, 4724.	1.7	23
372	Structure and Dynamics of GPCRs in Lipid Membranes: Physical Principles and Experimental Approaches. Molecules, 2020, 25, 4729.	1.7	38
373	Unintended Effects of GPCR-Targeted Drugs on the Cancer Phenotype. Trends in Pharmacological Sciences, 2020, 41, 1006-1022.	4.0	15
374	Releasing the technical â€˜shacklesâ€™ on GPCR drug discovery: opportunities enabled by detergent-free polymer lipid particle (PoLiPa) purification. Drug Discovery Today, 2020, 25, 1944-1956.	3.2	9
375	Vanadium compounds promote biocatalysis in cells through actions on cell membranes. Catalysis Today, 2022, 388-389, 216-223.	2.2	3
376	Distance-Dependent Cellular Uptake of Oligoproline-Based Homobivalent Ligands Targeting GPCRsâ€"An Experimental and Computational Analysis. Bioconjugate Chemistry, 2020, 31, 2431-2438.	1.8	5
377	Dissecting the roles of GRK2 and GRK3 in Î¼-opioid receptor internalization and Î²-arrestin2 recruitment using CRISPR/Cas9-edited HEK293 cells. Scientific Reports, 2020, 10, 17395.	1.6	33
378	Systematic synthesis of novel phosphoglycolipid analogues as potential agonists of GPR55. Organic and Biomolecular Chemistry, 2020, 18, 8467-8473.	1.5	4
379	Molecular characterization of ligand selectivity of the sex peptide receptors of Drosophila melanogaster and Aedes aegypti. Insect Biochemistry and Molecular Biology, 2020, 127, 103472.	1.2	5
380	Structural biology of human GPCR drugs and endogenous ligands - insights from NMR spectroscopy. Methods, 2020, 180, 79-88.	1.9	4
381	Binding Modes and Selectivity of Cannabinoid 1 (CB1) and Cannabinoid 2 (CB2) Receptor Ligands. ACS Chemical Neuroscience, 2020, 11, 3455-3463.	1.7	15
382	Graphs of dynamic H-bond networks: from model proteins to protein complexes in cell signaling. Current Opinion in Structural Biology, 2020, 64, 79-87.	2.6	16

#	Article	IF	Citations
383	GPCRmd uncovers the dynamics of the 3D-GPCRome. Nature Methods, 2020, 17, 777-787.	9.0	90
384	Interrogating surface versus intracellular transmembrane receptor populations using cell-impermeable SNAP-tag substrates. Chemical Science, 2020, 11, 7871-7883.	3.7	30
385	A simple open source bioinformatic methodology for initial exploration of GPCR ligandsâ€™ agonistic/antagonistic properties. Pharmacology Research and Perspectives, 2020, 8, e00600.	1.1	7
386	Inhibition of RNA-binding proteins with small molecules. Nature Reviews Chemistry, 2020, 4, 441-458.	13.8	76
387	Structure-based development of a subtype-selective orexin 1 receptor antagonist. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18059-18067.	3.3	33
388	Energy Landscapes Reveal Agonist Control of G Protein-Coupled Receptor Activation via Microswitches. Biochemistry, 2020, 59, 880-891.	1.2	45
389	Advances in Understanding the Initial Steps of Pruritoceptive Itch: How the Itch Hits the Switch. International Journal of Molecular Sciences, 2020, 21, 4883.	1.8	24
390	Elucidation of Mechanism for Ligand Efficacy at Leukotriene B₄ Receptor 2 (BLT2). ACS Medicinal Chemistry Letters, 2020, 11, 1529-1534.	1.3	7
391	Thyroid-associated ophthalmopathy: Emergence of teprotumumab as a promising medical therapy. Best Practice and Research in Clinical Endocrinology and Metabolism, 2020, 34, 101383.	2.2	10
392	Opportunities and challenges for drug discovery in modulating Adhesion G protein-coupled receptor (GPCR) functions. Expert Opinion on Drug Discovery, 2020, 15, 1291-1307.	2.5	19
393	Regulation of the JAK2-STAT5 Pathway by Signaling Molecules in the Mammary Gland. Frontiers in Cell and Developmental Biology, 2020, 8, 604896.	1.8	19
394	Discovery of Potent and Brain-Penetrant GPR52 Agonist that Suppresses Psychostimulant Behavior. Journal of Medicinal Chemistry, 2020, 63, 13951-13972.	2.9	10
395	G Protein-Coupled Receptor Heteromers as Putative Pharmacotherapeutic Targets in Autism. Frontiers in Cellular Neuroscience, 2020, 14, 588662.	1.8	9
396	Lipid nanoparticle technologies for the study of G protein-coupled receptors in lipid environments. Biophysical Reviews, 2020, 12, 1287-1302.	1.5	27
397	Top-Down Proteomics of Endogenous Membrane Proteins Enabled by Cloud Point Enrichment and Multidimensional Liquid Chromatographyâ€“Mass Spectrometry. Analytical Chemistry, 2020, 92, 15726-15735.	3.2	24
398	G Proteinâ€Coupled receptors and heterotrimeric G proteins as cancer drivers. FEBS Letters, 2020, 594, 4201-4232.	1.3	82
399	Lipid Receptor GPR31 (G-Proteinâ€“Coupled Receptor 31) Regulates Platelet Reactivity and Thrombosis Without Affecting Hemostasis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, e33-e45.	1.1	15
400	Integrative modeling of membrane-associated protein assemblies. Nature Communications, 2020, 11, 6210.	5.8	31

#	Article	IF	Citations
401	A Dynamic, Split-Luciferase-Based Mini-G Protein Sensor to Functionally Characterize Ligands at All Four Histamine Receptor Subtypes. International Journal of Molecular Sciences, 2020, 21, 8440.	1.8	20
402	Heterotrimeric G Protein Subunit GÎ±q Is a Master Switch for GÎ²Î³-Mediated Calcium Mobilization by Gi-Coupled GPCRs. Molecular Cell, 2020, 80, 940-954.e6.	4.5	54
403	The Lysophosphatidylserinesâ€"An Emerging Class of Signalling Lysophospholipids. Journal of Membrane Biology, 2020, 253, 381-397.	1.0	22
404	Biased allosteric modulation of formyl peptide receptor 2 leads to distinct receptor conformational states for pro- and anti-inflammatory signaling. Pharmacological Research, 2020, 161, 105117.	3.1	18
405	Harnessing cyclotides to design and develop novel peptide GPCR ligands. RSC Chemical Biology, 2020, 1, 177-191.	2.0	18
406	Time-Restricted G-Protein Signaling Pathways via GPR176, Gz, and RGS16 Set the Pace of the Master Circadian Clock in the Suprachiasmatic Nucleus. International Journal of Molecular Sciences, 2020, 21, 5055.	1.8	8
407	Spinal Inhibition of GABAB Receptors by the Extracellular Matrix Protein Fibulin-2 in Neuropathic Rats. Frontiers in Cellular Neuroscience, 2020, 14, 214.	1.8	3
408	Pharmacological Targeting of the Actin Cytoskeleton to Drive Endocrinogenesis. Trends in Pharmacological Sciences, 2020, 41, 384-386.	4.0	1
409	GDP Release from the Open Conformation of GÎ± Requires Allosteric Signaling from the Agonist-Bound Human Î²₂ Adrenergic Receptor. Journal of Chemical Information and Modeling, 2020, 60, 4064-4075.	2.5	8
410	Hypothalamic reproductive neurons communicate through signal transduction to control reproduction. Molecular and Cellular Endocrinology, 2020, 518, 110971.	1.6	18
411	Ligand Pose Predictions for Human G Protein-Coupled Receptors: Insights from the Amber-Based Hybrid Molecular Mechanics/Coarse-Grained Approach. Journal of Chemical Information and Modeling, 2020, 60, 5103-5116.	2.5	9
412	The Convergence of Extracellular Vesicle and GPCR Biology. Trends in Pharmacological Sciences, 2020, 41, 627-640.	4.0	21
413	The computational modeling of allosteric modulation of metabotropic glutamate receptors. Advances in Pharmacology, 2020, 88, 1-33.	1.2	1
414	Structural Complexity and Plasticity of Signaling Regulation at the Melanocortin-4 Receptor. International Journal of Molecular Sciences, 2020, 21, 5728.	1.8	12
415	The Conformational Equilibrium of the Neuropeptide Y2 Receptor in Bilayer Membranes. Angewandte Chemie - International Edition, 2020, 59, 23854-23861.	7.2	29
416	Discovery of Homobivalent Bitopic Ligands of the Cannabinoid CB₂ Receptor**. Chemistry - A European Journal, 2020, 26, 15839-15842.	1.7	20
417	Conformational dynamics of a G proteinâ€"coupled receptor helix 8 in lipid membranes. Science Advances, 2020, 6, eaav8207.	4.7	24
418	Policy, toxicology and physicochemical considerations on the inhalation of high concentrations of food flavour. Npj Science of Food, 2020, 4, 15.	2.5	18

#	Article	IF	Citations
419	Translation-Focused Approaches to GPCR Drug Discovery for Cognitive Impairments Associated with Schizophrenia. ACS Pharmacology and Translational Science, 2020, 3, 1042-1062.	2.5	6
420	Direct Antibody Isolation on Cells Using Affinity-Tag-Guided Proximity Selection. Biochemistry, 2020, 59, 4285-4293.	1.2	2
421	Ligand-Specific Allosteric Coupling Controls G-Protein-Coupled Receptor Signaling. ACS Pharmacology and Translational Science, 2020, 3, 859-867.	2.5	15
422	A peptide immunoaffinity LCâ€“MS/MS strategy for quantifying the GPCR protein, S1PR1 in human colon biopsies. Bioanalysis, 2020, 12, 1311-1324.	0.6	4
423	Das Konformationsgleichgewicht des Neuropeptidâ€Y2â€Rezeptors in Lipidmembranen. Angewandte Chemie, 2020, 132, 24062-24070.	1.6	0
424	Illuminating the Path to Target GPCR Structures and Functions. Biochemistry, 2020, 59, 3783-3795.	1.2	3
425	Mechanistic Insights into Light-Driven Allosteric Control of GPCR Biological Activity. ACS Pharmacology and Translational Science, 2020, 3, 883-895.	2.5	10
426	Structural basis of CXC chemokine receptor 2 activation and signalling. Nature, 2020, 585, 135-140.	13.7	128
427	Utilizing Designed Receptors Exclusively Activated by Designer Drug Chemogenetic Tools to Identify Beneficial G Proteinâ€Coupled Receptor Signaling for Fibrosis. Journal of Pharmacology and Experimental Therapeutics, 2020, 375, 357-366.	1.3	2
428	Regulation of mTORC1 by Upstream Stimuli. Genes, 2020, 11, 989.	1.0	61
429	Delineation of molecular determinants for FR900359 inhibition of Gq/11 unlocks inhibition of Gî±s. Journal of Biological Chemistry, 2020, 295, 13850-13861.	1.6	11
430	Biased Opioid Antagonists as Modulators of Opioid Dependence: Opportunities to Improve Pain Therapy and Opioid Use Management. Molecules, 2020, 25, 4163.	1.7	7
431	Druggable Lipid GPCRs: Past, Present, and Prospects. Advances in Experimental Medicine and Biology, 2020, 1274, 223-258.	0.8	19
432	G protein-coupled receptors function as cell membrane receptors for the steroid hormone 20-hydroxyecdysone. Cell Communication and Signaling, 2020, 18, 146.	2.7	23
433	Molecular-Level Understanding of the Somatostatin Receptor 1 (SSTR1)â€Ligand Binding: A Structural Biology Study Based on Computational Methods. ACS Omega, 2020, 5, 21145-21161.	1.6	9
434	Orchestration of Intracellular Circuits by G Protein-Coupled Receptor 39 for Hepatitis B Virus Proliferation. International Journal of Molecular Sciences, 2020, 21, 5661.	1.8	2
435	Illuminating the allosteric modulation of the calcium-sensing receptor. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21711-21722.	3.3	37
436	GPR91, a critical signaling mechanism in modulating pathophysiologic processes in chronic illnesses. FASEB Journal, 2020, 34, 13091-13105.	0.2	23

#	Article	IF	Citations
437	How Do Molecular Dynamics Data Complement Static Structural Data of GPCRs. International Journal of Molecular Sciences, 2020, 21, 5933.	1.8	35
438	The N-terminus of GPR37L1 is proteolytically processed by matrix metalloproteases. Scientific Reports, 2020, 10, 19995.	1.6	7
439	Mini-review: antibody therapeutics targeting G protein-coupled receptors and ion channels. Antibody Therapeutics, 2020, 3, 257-264.	1.2	3
440	Biased Ligands Differentially Shape the Conformation of the Extracellular Loop Region in 5-HT2B Receptors. International Journal of Molecular Sciences, 2020, 21, 9728.	1.8	7
441	GPCR Activation States Induced by Nanobodies and Mini-G Proteins Compared by NMR Spectroscopy. Molecules, 2020, 25, 5984.	1.7	12
442	Statistics for the analysis of molecular dynamics simulations: providing P values for agonist-dependent GPCR activation. Scientific Reports, 2020, 10, 19942.	1.6	6
443	Discovery of 5,5â€²-Methylenedi-2,3-Cresotic Acid as a Potent Inhibitor of the Chemotactic Activity of the HMGB1Â·CXCL12 Heterocomplex Using Virtual Screening and NMR Validation. Frontiers in Chemistry, 2020, 8, 598710.	1.8	3
444	Signal Transduction Profiling of Angiotensin II Type 1 Receptor With Mutations Associated to Atrial Fibrillation in Humans. Frontiers in Pharmacology, 2020, 11, 600132.	1.6	7
445	How GPCR Phosphorylation Patterns Orchestrate Arrestin-Mediated Signaling. Cell, 2020, 183, 1813-1825.e18.	13.5	100
446	Antigen Design for Successful Isolation of Highly Challenging Therapeutic Anti-GPCR Antibodies. International Journal of Molecular Sciences, 2020, 21, 8240.	1.8	9
447	GPCRs as an emerging hostâ€directed therapeutic target against mycobacterial infection: From notion to reality. British Journal of Pharmacology, 2020, , .	2.7	2
448	Uveal melanoma: progress in molecular biology and therapeutics. Therapeutic Advances in Medical Oncology, 2020, 12, 175883592096585.	1.4	29
449	Combinatorial expression of GPCR isoforms affects signalling and drug responses. Nature, 2020, 587, 650-656.	13.7	87
450	ONC201 and imipridones: Anti-cancer compounds with clinical efficacy. Neoplasia, 2020, 22, 725-744.	2.3	90
451	Progress in understanding hormonal regulation during the postembryonic development of Helicoverpa armigera. Journal of Integrative Agriculture, 2020, 19, 1417-1428.	1.7	9
452	Single molecule binding of a ligand to a G-protein-coupled receptor in real time using fluorescence correlation spectroscopy, rendered possible by nano-encapsulation in styrene maleic acid lipid particles. Nanoscale, 2020, 12, 11518-11525.	2.8	37
453	Tetrahydroimidazo[1,2â€a]pyrazine Derivatives: Synthesis and Evaluation as Gαq<sub>â€Protein Ligands. Chemistry - A European Journal, 2020, 26, 12615-12623.	1.7	7
454	Synthesis, Radiosynthesis and Biological Evaluation of BuprenorphineâEDerived Phenylazocarboxamides as Novel μâEOpioid Receptor Ligands. ChemMedChem, 2020, 15, 1175-1186.	1.6	4

#	Article	IF	Citations
455	Molecular chaperones and G protein-coupled receptor maturation and pharmacology. Molecular and Cellular Endocrinology, 2020, 511, 110862.	1.6	27
456	G Proteinâ€“Coupled Receptors in Asthma Therapy: Pharmacology and Drug Action. Pharmacological Reviews, 2020, 72, 1-49.	7.1	69
457	Structural features of activated GPCR signaling complexes. Current Opinion in Structural Biology, 2020, 63, 82-89.	2.6	50
458	HomolWat: a web server tool to incorporate â€˜homologousâ€™ water molecules into GPCR structures. Nucleic Acids Research, 2020, 48, W54-W59.	6.5	19
459	Development of a Conformational Histamine H₃ Receptor Biosensor for the Synchronous Screening of Agonists and Inverse Agonists. ACS Sensors, 2020, 5, 1734-1742.	4.0	27
460	Roles for heterodimerization of APJ and B2R in promoting cell proliferation via ERK1/2-eNOS signaling pathway. Cellular Signalling, 2020, 73, 109671.	1.7	10
461	In vivo mapping of a GPCR interactome using knockin mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13105-13116.	3.3	21
462	Advances in Neurobiology and Pharmacology of GPR12. Frontiers in Pharmacology, 2020, 11, 628.	1.6	14
463	Î²-Arrestin-2-Dependent Mechanism of GPR52 Signaling in Frontal Cortical Neurons. ACS Chemical Neuroscience, 2020, 11, 2077-2084.	1.7	7
464	Xâ€Ray Crystallography and Free Energy Calculations Reveal the Binding Mechanism of A_{2A} Adenosine Receptor Antagonists. Angewandte Chemie - International Edition, 2020, 59, 16536-16543.	7.2	23
465	Endosomal signaling of delta opioid receptors is an endogenous mechanism and therapeutic target for relief from inflammatory pain. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15281-15292.	3.3	72
466	GÎ±12/13 signaling in metabolic diseases. Experimental and Molecular Medicine, 2020, 52, 896-910.	3.2	22
467	Structural insights into emergent signaling modes of G proteinâ€“coupled receptors. Journal of Biological Chemistry, 2020, 295, 11626-11642.	1.6	53
468	Accurate Prediction of GPCR Ligand Binding Affinity with Free Energy Perturbation. Journal of Chemical Information and Modeling, 2020, 60, 5563-5579.	2.5	45
469	GPCR-dependent biasing of GIRK channel signaling dynamics by RGS6 in mouse sinoatrial nodal cells. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14522-14531.	3.3	17
470	Utilizing drug-target-event relationships to unveil safety patterns in pharmacovigilance. Expert Opinion on Drug Safety, 2020, 19, 961-968.	1.0	5
471	Correlating Transcriptional Networks to Papillary Renal Cell Carcinoma Survival: A Large-Scale Coexpression Analysis and Clinical Validation. Oncology Research, 2020, 28, 285-297.	0.6	7
472	Computational methods and tools for sustainable and green approaches in drug discovery. , 2020, , 965-988.		3

#	Article	IF	Citations
473	GPR64 promotes cAMP pathway in tumor aggressiveness in sparsely granulated growth hormone cell adenomas. Endocrine, 2020, 68, 629-639.	1.1	6
474	Retrospect and Prospect of Single Particle Cryo-Electron Microscopy: The Class of Integral Membrane Proteins as an Example. Journal of Chemical Information and Modeling, 2020, 60, 2448-2457.	2.5	8
475	Identification and functional characterisation of N-linked glycosylation of the orphan G protein-coupled receptor Gpr176. Scientific Reports, 2020, 10, 4429.	1.6	19
476	In silico Docking Studies of Fingolimod and S1P1 Agonists. Frontiers in Pharmacology, 2020, 11, 247.	1.6	6
477	An atlas of the protein-coding genes in the human, pig, and mouse brain. Science, 2020, 367, .	6.0	517
478	Selectivity in agonist and antagonist binding to Serotonin1A receptors via G-protein coupling. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183265.	1.4	3
479	Heterotrimeric Gq proteins as therapeutic targets?. Journal of Biological Chemistry, 2020, 295, 5206-5215.	1.6	58
480	The repertoire of Adhesion G protein-coupled receptors in adipocytes and their functional relevance. International Journal of Obesity, 2020, 44, 2124-2136.	1.6	26
481	Advances in therapeutic peptides targeting G protein-coupled receptors. Nature Reviews Drug Discovery, 2020, 19, 389-413.	21.5	162
482	Machine Learning to Identify Flexibility Signatures of Class A GPCR Inhibition. Biomolecules, 2020, 10, 454.	1.8	21
483	Comprehensive Characterization of Lipid-Guided G Protein-Coupled Receptor Dimerization. Journal of Physical Chemistry B, 2020, 124, 2823-2834.	1.2	24
484	Development of Novel 111-In-Labelled DOTA Urotensin II Analogues for Targeting the UT Receptor Overexpressed in Solid Tumours. Biomolecules, 2020, 10, 471.	1.8	3
485	Regiospecific Introduction of Halogens on the 2-Aminobiphenyl Subunit Leading to Highly Potent and Selective M3 Muscarinic Acetylcholine Receptor Antagonists and Weak Inverse Agonists. Journal of Medicinal Chemistry, 2020, 63, 4349-4369.	2.9	5
486	Src mediates Î²-adrenergic receptor induced YAP tyrosine phosphorylation. Science China Life Sciences, 2020, 63, 697-705.	2.3	8
487	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
488	Evaluating the benefits of renin-angiotensin system inhibitors as cancer treatments. , 2020, 211, 107527.		38
489	Endosomal Wnt signaling proteins control microtubule nucleation in dendrites. PLoS Biology, 2020, 18, e3000647.	2.6	39
490	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

#	Article	IF	Citations
491	GPCRs in head and neck squamous cell carcinoma. , 2020, , 317-334.		1
492	Voltage Dependence of Prostanoid Receptors. Molecular Pharmacology, 2020, 97, 267-277.	1.0	15
493	A Supervised Molecular Dynamics Approach to Unbiased Ligandâ€“Protein Unbinding. Journal of Chemical Information and Modeling, 2020, 60, 1804-1817.	2.5	28
494	How to make an undruggable enzyme druggable: lessons from ras proteins. Advances in Protein Chemistry and Structural Biology, 2020, 122, 181-202.	1.0	3
495	Transcriptomic analysis of hookworm Ancylostoma ceylanicum life cycle stages reveals changes in G-protein coupled receptor diversity associated with the onset of parasitism. International Journal for Parasitology, 2020, 50, 603-610.	1.3	9
496	Cryo-electron microscopy analysis of small membrane proteins. Current Opinion in Structural Biology, 2020, 64, 26-33.	2.6	57
497	Cannabinoids and Cannabinoid Receptors: The Story so Far. IScience, 2020, 23, 101301.	1.9	107
498	A simple mechanistic terminology of psychoactive drugs: a proposal. Naunyn-Schmiedeberg's Archives of Pharmacology, 2020, 393, 1331-1339.	1.4	17
499	Orphan G Protein Coupled Receptors in Affective Disorders. Genes, 2020, 11, 694.	1.0	38
500	Lgr4 Governs a Pro-Inflammatory Program in Macrophages to Antagonize Post-Infarction Cardiac Repair. Circulation Research, 2020, 127, 953-973.	2.0	62
501	Analysis of ciliary status via G-protein-coupled receptors localized on primary cilia. Microscopy (Oxford, England), 2020, 69, 277-285.	0.7	7
502	Quinolines-Based SARS-CoV-2 3CLpro and RdRp Inhibitors and Spike-RBD-ACE2 Inhibitor for Drug-Repurposing Against COVID-19: An in silico Analysis. Frontiers in Microbiology, 2020, 11, 1796.	1.5	115
503	Recent advances in multitarget-directed ligands targeting G-protein-coupled receptors. Drug Discovery Today, 2020, 25, 1682-1692.	3.2	13
504	Adenosine/A2B Receptor Signaling Ameliorates the Effects of Aging and Counteracts Obesity. Cell Metabolism, 2020, 32, 56-70.e7.	7.2	77
505	Machine learning guided association of adverse drug reactions with in vitro target-based pharmacology. EBioMedicine, 2020, 57, 102837.	2.7	44
506	Design and pharmacological profile of a novel covalent partial agonist for the adenosine A1 receptor. Biochemical Pharmacology, 2020, 180, 114144.	2.0	10
507	Advances in G protein-coupled receptor high-throughput screening. Current Opinion in Biotechnology, 2020, 64, 210-217.	3.3	31
508	Xâ€Ray Crystallography and Free Energy Calculations Reveal the Binding Mechanism of A_{2A} Adenosine Receptor Antagonists. Angewandte Chemie, 2020, 132, 16679-16686.	1.6	1

#	Article	IF	Citations
509	IDPs and their complexes in GPCR and nuclear receptor signaling. Progress in Molecular Biology and Translational Science, 2020, 174, 105-155.	0.9	6
510	Just how prevalent are peptide therapeutic products? A critical review. International Journal of Pharmaceutics, 2020, 587, 119491.	2.6	28
511	Machine learning and AI-based approaches for bioactive ligand discovery and GPCR-ligand recognition. Methods, 2020, 180, 89-110.	1.9	47
512	G protein-coupled kisspeptin receptor induces metabolic reprograming and tumorigenesis in estrogen receptor-negative breast cancer. Cell Death and Disease, 2020, 11, 106.	2.7	10
513	Characterizing Interhelical Interactions of G-Protein Coupled Receptors with the Fragment Molecular Orbital Method. Journal of Chemical Theory and Computation, 2020, 16, 2814-2824.	2.3	13
514	Next generation 3D pharmacophore modeling. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2020, 10, e1468.	6.2	122
515	G-Protein-Coupled Receptors in CNS: A Potential Therapeutic Target for Intervention in Neurodegenerative Disorders and Associated Cognitive Deficits. Cells, 2020, 9, 506.	1.8	59
516	Haloperidol bound D2 dopamine receptor structure inspired the discovery of subtype selective ligands. Nature Communications, 2020, 11, 1074.	5.8	71
517	Strategies and considerations of G-protein-coupled receptor photopharmacology. Advances in Pharmacology, 2020, 88, 143-172.	1.2	23
518	Homogeneous Dual-Parametric-Coupled Assay for Simultaneous Nucleotide Exchange and KRAS/RAF-RBD Interaction Monitoring. Analytical Chemistry, 2020, 92, 4971-4979.	3.2	29
519	Emerging Role of Compartmentalized G Protein-Coupled Receptor Signaling in the Cardiovascular Field. ACS Pharmacology and Translational Science, 2020, 3, 221-236.	2.5	38
520	Bridging non-overlapping reads illuminates high-order epistasis between distal protein sites in a GPCR. Nature Communications, 2020, 11, 690.	5.8	5
521	Structure of the agonist 12â€“HHT in its BLT2 receptor-bound state. Scientific Reports, 2020, 10, 2630.	1.6	8
522	Fluorogen activating protein toolset for protein trafficking measurements. Traffic, 2020, 21, 333-348.	1.3	9
523	Ligand-induced conformational changes in a SMALP-encapsulated GPCR.. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183235.	1.4	24
524	Chemogenetics a robust approach to pharmacology and gene therapy. Biochemical Pharmacology, 2020, 175, 113889.	2.0	21
525	Dawn of a New RAMPage. Trends in Pharmacological Sciences, 2020, 41, 249-265.	4.0	30
526	Homologous G Protein-Coupled Receptors Boost the Modeling and Interpretation of Bioactivities of Ligand Molecules. Journal of Chemical Information and Modeling, 2020, 60, 1865-1875.	2.5	8

#	Article	IF	Citations
527	Nongenetic engineering strategies for regulating receptor oligomerization in living cells. Chemical Society Reviews, 2020, 49, 1545-1568.	18.7	44
528	Plant receptor-like kinase signaling through heterotrimeric G-proteins. Journal of Experimental Botany, 2020, 71, 1742-1751.	2.4	30
529	Structure-guided discovery of a single-domain antibody agonist against human apelin receptor. Science Advances, 2020, 6, eaax7379.	4.7	50
530	Structural insight into small molecule action on Frizzleds. Nature Communications, 2020, 11, 414.	5.8	38
531	The Emerging Role of Adhesion GPCRs in Cancer. ACS Pharmacology and Translational Science, 2020, 3, 29-42.	2.5	41
532	Biased Signaling of the G-Protein-Coupled Receptor Î²2AR Is Governed by Conformational Exchange Kinetics. Structure, 2020, 28, 371-377.e3.	1.6	36
533	DAPLE protein inhibits nucleotide exchange on GÎ±s and GÎ±q via the same motif that activates GÎ±i. Journal of Biological Chemistry, 2020, 295, 2270-2284.	1.6	14
534	Transcriptome Modifications in the Porcine Intramuscular Adipocytes during Differentiation and Exogenous Stimulation with TNF-Î± and Serotonin. International Journal of Molecular Sciences, 2020, 21, 638.	1.8	15
535	Discovery of potential asthma targets based on the clinical efficacy of Traditional Chinese Medicine formulas. Journal of Ethnopharmacology, 2020, 252, 112635.	2.0	24
536	Spatiotemporal dynamic monitoring of fatty acidâ€“receptor interaction on single living cells by multiplexed Raman imaging. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3518-3527.	3.3	14
537	Are Kynurenines Accomplices or Principal Villains in Dementia? Maintenance of Kynurenine Metabolism. Molecules, 2020, 25, 564.	1.7	63
538	Conformational plasticity of ligand-bound and ternary GPCR complexes studied by 19F NMR of the Î²1-adrenergic receptor. Nature Communications, 2020, 11, 669.	5.8	67
539	A-kinase anchoring protein 8L interacts with mTORC1 and promotes cell growth. Journal of Biological Chemistry, 2020, 295, 8096-8105.	1.6	17
540	Miniaturized weak affinity chromatography for ligand identification of nanodiscs-embedded G-protein coupled receptors. Analytica Chimica Acta, 2020, 1113, 26-35.	2.6	18
541	Improved GPCR ligands from nanobody tethering. Nature Communications, 2020, 11, 2087.	5.8	42
542	Discovering Anti-Cancer Drugs via Computational Methods. Frontiers in Pharmacology, 2020, 11, 733.	1.6	148
543	A review of antibody-based therapeutics targeting G protein-coupled receptors: an update. Expert Opinion on Biological Therapy, 2020, 20, 925-935.	1.4	34
544	Theoretical identification of thermostabilizing amino acid mutations for G-protein-coupled receptors. Biophysical Reviews, 2020, 12, 323-332.	1.5	5

#	Article	IF	Citations
545	Direct and indirect cholesterol effects on membrane proteins with special focus on potassium channels. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2020, 1865, 158706.	1.2	50
546	The chemokine CCL7 regulates invadopodia maturation and MMP-9 mediated collagen degradation in liver-metastatic carcinoma cells. Cancer Letters, 2020, 483, 98-113.	3.2	25
547	Impact of GPCR Structures on Drug Discovery. Cell, 2020, 181, 81-91.	13.5	229
548	Design and Synthesis of Bitopic 2-Phenylcyclopropylmethylamine (PCPMA) Derivatives as Selective Dopamine D3 Receptor Ligands. Journal of Medicinal Chemistry, 2020, 63, 4579-4602.	2.9	15
549	Deletion of Gpr27 in vivo reduces insulin mRNA but does not result in diabetes. Scientific Reports, 2020, 10, 5629.	1.6	12
550	Function-based high-throughput screening for antibody antagonists and agonists against G protein-coupled receptors. Communications Biology, 2020, 3, 146.	2.0	21
551	Proton-sensing G protein-coupled receptors: detectors of tumor acidosis and candidate drug targets. Future Medicinal Chemistry, 2020, 12, 523-532.	1.1	14
552	An Agonist Dependent Allosteric Antagonist of Prostaglandin EP2 Receptors. ACS Chemical Neuroscience, 2020, 11, 1436-1446.	1.7	10
553	GPR39 Overexpression in OSCC Promotes YAP-Sustained Malignant Progression. Journal of Dental Research, 2020, 99, 949-958.	2.5	22
554	G-Protein Coupled Receptors and Tau-different Roles in Alzheimerâ€™s Disease. Neuroscience, 2020, 438, 198-214.	1.1	25
555	Structure-Based Virtual Screening Accelerates GPCR Drug Discovery. Trends in Pharmacological Sciences, 2020, 41, 382-384.	4.0	22
556	Identifying GPCR-drug interaction based on wordbook learning from sequences. BMC Bioinformatics, 2020, 21, 150.	1.2	10
557	A Focus on Unusual ECL2 Interactions Yields Î²₂â€Adrenergic Receptor Antagonists with Unprecedented Scaffolds. ChemMedChem, 2020, 15, 882-890.	1.6	9
558	Beyond structure: emerging approaches to study GPCR dynamics. Current Opinion in Structural Biology, 2020, 63, 18-25.	2.6	43
559	The Lâ€Î±â€Lysophosphatidylinositol/G Proteinâ€“Coupled Receptor 55 System Induces the Development of Nonalcoholic Steatosis and Steatohepatitis. Hepatology, 2021, 73, 606-624.	3.6	42
560	Rescue of Function of Mutant Luteinising Hormone Receptors with Deficiencies in Cell Surface Expression, Hormone Binding, and Hormone Signalling. Neuroendocrinology, 2021, 111, 451-464.	1.2	10
561	Applications and challenges of low temperature plasma in pharmaceutical field. Journal of Pharmaceutical Analysis, 2021, 11, 28-36.	2.4	26
562	Radiolabelled CCK 2 R Antagonists Containing PEG Linkers: Design, Synthesis and Evaluation. ChemMedChem, 2021, 16, 155-163.	1.6	5

#	Article	IF	Citations
563	Single Quantum Dot Tracking Unravels Agonist Effects on the Dopamine Receptor Dynamics. Biochemistry, 2021, 60, 1031-1043.	1.2	6
564	Dendritic Oligoglycerol Regioisomer Mixtures and Their Utility for Membrane Protein Research. Chemistry - A European Journal, 2021, 27, 2537-2542.	1.7	12
565	Biased signaling in naturally occurring mutations of G protein-coupled receptors associated with diverse human diseases. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2021, 1867, 165973.	1.8	24
566	Network analysis of transcriptomics data for the prediction and prioritization of membrane-associated biomarkers for idiopathic pulmonary fibrosis (IPF) by bioinformatics approach. Advances in Protein Chemistry and Structural Biology, 2021, 123, 241-273.	1.0	29
567	Recent advances in GPCR-regulated leukocyte responses during acute cardiac injury. Current Opinion in Physiology, 2021, 19, 55-61.	0.9	2
568	A2A Adenosine Receptor Partial Agonism Related to Structural Rearrangements in an Activation Microswitch. Structure, 2021, 29, 170-176.e3.	1.6	30
569	GPCRdb in 2021: integrating GPCR sequence, structure and function. Nucleic Acids Research, 2021, 49, D335-D343.	6.5	254
570	Biased agonism at chemokine receptors. Cellular Signalling, 2021, 78, 109862.	1.7	28
571	Allosteric binding sites at the receptorâ€“lipid bilayer interface: novel targets for GPCR drug discovery. Drug Discovery Today, 2021, 26, 690-703.	3.2	34
572	Targeting G protein-coupled receptors for the treatment of chronic pain in the digestive system. Gut, 2021, 70, 970-981.	6.1	21
573	Sperm ion channels and transporters in male fertility and infertility. Nature Reviews Urology, 2021, 18, 46-66.	1.9	76
574	Mutations in G Proteinâ€“Coupled Receptors: Mechanisms, Pathophysiology and Potential Therapeutic Approaches. Pharmacological Reviews, 2021, 73, 89-119.	7.1	60
575	The Potential of 19F NMR Application in GPCR Biased Drug Discovery. Trends in Pharmacological Sciences, 2021, 42, 19-30.	4.0	16
576	Aging-related modifications to G protein-coupled receptor signaling diversity. , 2021, 223, 107793.		12
577	Candidate Binding Sites for Allosteric Inhibition of the SARS-CoV-2 Main Protease from the Analysis of Large-Scale Molecular Dynamics Simulations. Journal of Physical Chemistry Letters, 2021, 12, 65-72.	2.1	18
578	Recent progress in the development of Î²2 adrenergic receptor agonists: a patent review (2015-2020). Expert Opinion on Therapeutic Patents, 2021, 31, 239-246.	2.4	4
579	Asnâ€linked Nâ€“acetylglucosamine of the amylin receptor 2 extracellular domain enhances peptide ligand affinity. FEBS Open Bio, 2021, 11, 195-206.	1.0	3
580	G protein-coupled receptor-G protein interactions: a single-molecule perspective. Physiological Reviews, 2021, 101, 857-906.	13.1	46

#	Article	IF	Citations
581	Stereoselective syntheses and biological activities of E-series resolvins. Organic and Biomolecular Chemistry, 2021, 19, 705-721.	1.5	11
582	Mass Photometry of Membrane Proteins. CheM, 2021, 7, 224-236.	5.8	39
583	Selection of DNA-encoded chemical libraries against endogenous membrane proteins on live cells. Nature Chemistry, 2021, 13, 77-88.	6.6	86
584	G protein-coupled receptors as promising targets in cancer. Current Opinion in Endocrine and Metabolic Research, 2021, 16, 119-127.	0.6	6
585	Detergent-free solubilisation & purification of a G protein coupled receptor using a polymethacrylate polymer. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183441.	1.4	13
586	Determination of G-proteinâ€“coupled receptor oligomerization by molecular brightness analyses in single cells. Nature Protocols, 2021, 16, 1419-1451.	5.5	25
587	Pharmacological Target Engagement and Validation. , 2021, , .		0
588	Mirogabalin: could it be the next generation gabapentin or pregabalin?. Korean Journal of Pain, 2021, 34, 4-18.	0.8	19
589	Differences in SMA-like polymer architecture dictate the conformational changes exhibited by the membrane protein rhodopsin encapsulated in lipid nano-particles. Nanoscale, 2021, 13, 13519-13528.	2.8	10
590	Nanoluciferase-Based Complementation Assay to Detect GPCR-G Protein Interaction. Methods in Molecular Biology, 2021, 2268, 149-157.	0.4	5
591	Screening for Serotonin Receptor 4 Agonists Using a GPCR-Based Sensor in Yeast. Methods in Molecular Biology, 2021, 2268, 77-84.	0.4	0
592	Optical Control of Brain Receptors Using Photoactive Drugs in Behaving Animals. Neuromethods, 2021, , 513-522.	0.2	0
593	Functional GLP-1R antibodies identified from a synthetic GPCR-focused library demonstrate potent blood glucose control. MAbs, 2021, 13, 1893425.	2.6	7
594	GPCRs Under Flow and Pressure. Cardiac and Vascular Biology, 2021, , 97-126.	0.2	0
595	Amplified Luminescent Proximity Homogeneous Assay (Alpha)-Based Technique to Detect GPCR Oligomers in Human Postmortem Brain. Neuromethods, 2021, , 135-142.	0.2	0
596	Targeting respiratory complex Iâ€”molecular mechanism and drug design. , 2021, , 327-340.		0
597	Exploring G protein-coupled receptors and yeast surface display strategies for viral detection in baker's yeast: SARS-CoV-2 as a case study. FEMS Yeast Research, 2021, 21, .	1.1	3
598	Targeting Islet GPCRs to Improve Insulin Secretion. , 2021, , .		0

#	Article	IF	Citations
599	Arrestin-Dependent and -Independent Internalization of G Proteinâ€“Coupled Receptors: Methods, Mechanisms, and Implications on Cell Signaling. Molecular Pharmacology, 2021, 99, 242-255.	1.0	41
600	Flow-mediated vasodilation through mechanosensitive G protein-coupled receptors in endothelial cells. Trends in Cardiovascular Medicine, 2022, 32, 61-70.	2.3	26
601	Chemistry for the Identification of Therapeutic Targets: Recent Advances and Future Directions. European Journal of Organic Chemistry, 2021, 2021, 1307-1320.	1.2	5
602	Nature-inspired dimerization as a strategy to modulate neuropeptide pharmacology exemplified with vasopressin and oxytocin. Chemical Science, 2021, 12, 4057-4062.	3.7	12
603	Systems Pharmacology: Enabling Multidimensional Therapeutics. , 2022, , 725-769.		1
604	Pharmaceutical Industryâ€"Academia Cooperation. , 2021, , 307-322.		0
605	Directing evolution of novel ligands by mRNA display. Chemical Society Reviews, 2021, 50, 9055-9103.	18.7	31
606	NanoLuc-Based Methods to Measure Î²-Arrestin2 Recruitment to G Protein-Coupled Receptors. Methods in Molecular Biology, 2021, 2268, 233-248.	0.4	7
607	Live Cell Imaging and Optogenetics-Based Assays for GPCR Activity. Methods in Molecular Biology, 2021, 2268, 207-221.	0.4	0
608	Personalized Medicine Through GPCR Pharmacogenomics. , 2021, , .		2
609	A lipid-anchored neurokinin 1 receptor antagonist prolongs pain relief by a three-pronged mechanism of action targeting the receptor at the plasma membrane and in endosomes. Journal of Biological Chemistry, 2021, 296, 100345.	1.6	17
610	Fragment evolution for GPCRs: the role of secondary binding sites in optimization. Chemical Communications, 2021, 57, 10516-10519.	2.2	5
611	Potentiation of B2 receptor signaling by AltB2R, a newly identified alternative protein encoded in the human bradykinin B2 receptor gene. Journal of Biological Chemistry, 2021, 296, 100329.	1.6	9
612	The Concept of Receptor and Molecule Interaction in Drug Discovery and Development. , 2021, , 67-102.		3
613	Monobodies as tool biologics for accelerating target validation and druggable site discovery. RSC Medicinal Chemistry, 2021, 12, 1839-1853.	1.7	10
614	Current Trends in GPCR Allostery. Journal of Membrane Biology, 2021, 254, 293-300.	1.0	6
615	Deciphering the Agonist Binding Mechanism to the Adenosine A1 Receptor. ACS Pharmacology and Translational Science, 2021, 4, 314-326.	2.5	9
616	Sulfur-containing therapeutics in the treatment of Alzheimerâ€™s disease. Medicinal Chemistry Research, 2021, 30, 305-352.	1.1	20

#	Article	IF	Citations
617	Paroxetineâ€"Overview of the Molecular Mechanisms of Action. International Journal of Molecular Sciences, 2021, 22, 1662.	1.8	21
619	Receptor-Arrestin Interactions: The GPCR Perspective. Biomolecules, 2021, 11, 218.	1.8	45
621	Structureâ€"Activity Relationship Studies of Coumarin-like Diacid Derivatives as Human G Protein-Coupled Receptor-35 (hGPR35) Agonists and a Consequent New Design Principle. Journal of Medicinal Chemistry, 2021, 64, 2634-2647.	2.9	18
622	Allosteric Modulation of GPCRs of Class A by Cholesterol. International Journal of Molecular Sciences, 2021, 22, 1953.	1.8	38
623	EJE AWARD 2020: Signalling by G protein-coupled receptors: why space and time matter. European Journal of Endocrinology, 2021, 184, R41-R49.	1.9	4
624	Regulatory roles of G-protein coupled receptors in adipose tissue metabolism and their therapeutic potential. Archives of Pharmacal Research, 2021, 44, 133-145.	2.7	11
625	Melanocortin receptor activation alleviates amyloid pathology and glial reactivity in an Alzheimerâ€™s disease transgenic mouse model. Scientific Reports, 2021, 11, 4359.	1.6	10
626	The mutational landscape of human olfactory G protein-coupled receptors. BMC Biology, 2021, 19, 21.	1.7	14
627	Prioritizing Pain-Associated Targets with Machine Learning. Biochemistry, 2021, 60, 1430-1446.	1.2	5
628	Trends in application of advancing computational approaches in GPCR ligand discovery. Experimental Biology and Medicine, 2021, 246, 1011-1024.	1.1	5
629	A random small molecule library screen identifies novel antagonists of the kinin receptor from the cattle fever tick, Rhipicephalus microplus (Acari: Ixodidae). Pest Management Science, 2021, 77, 2238-2251.	1.7	5
630	Development of Generic G Protein Peptidomimetics Able to Stabilize Active State G s Proteinâ€Coupled Receptors for Application in Drug Discovery. Angewandte Chemie, 2021, 133, 10335-10342.	1.6	0
632	Neuronal metabotropic glutamate receptor 8 protects against neurodegeneration in CNS inflammation. Journal of Experimental Medicine, 2021, 218, .	4.2	20
633	The Knockout for G Protein-Coupled Receptor-Like PfSR25 Increases the Susceptibility of Malaria Parasites to the Antimalarials Lumefantrine and Piperaquine but Not to Medicine for Malaria Venture Compounds. Frontiers in Microbiology, 2021, 12, 638869.	1.5	8
634	Considering Sex as a Biological Variable in Basic and Clinical Studies: An Endocrine Society Scientific Statement. Endocrine Reviews, 2021, 42, 219-258.	8.9	61
635	Nile Red-Based GPCR Ligands as Ultrasensitive Probes of the Local Lipid Microenvironment of the Receptor. ACS Chemical Biology, 2021, 16, 651-660.	1.6	12
636	MSA-Regularized Protein Sequence Transformer toward Predicting Genome-Wide Chemical-Protein Interactions: Application to GPCRome Deorphanization. Journal of Chemical Information and Modeling, 2021, 61, 1570-1582.	2.5	20
637	Feeling at home: Structure of the NTSR1â€"Gi complex in a lipid environment. Nature Structural and Molecular Biology, 2021, 28, 331-333.	3.6	0

#	Article	IF	Citations
638	Allosteric coupling and biased agonism in G proteinâ€coupled receptors. FEBS Journal, 2021, 288, 2513-2528.	2.2	35
639	G protein-coupled receptors: Key molecules in metabolic associated fatty liver disease development. Nutrition Research, 2021, 87, 70-79.	1.3	6
641	The Roles of Orphan G Protein-Coupled Receptors in Autoimmune Diseases. Clinical Reviews in Allergy and Immunology, 2021, 60, 220-243.	2.9	6
643	Strategies towards Targeting GÎ±i/s Proteins: Scanning of Proteinâ€Protein Interaction Sites To Overcome Inaccessibility. ChemMedChem, 2021, 16, 1697-1716.	1.6	10
644	Human MC4R variants affect endocytosis, trafficking and dimerization revealing multiple cellular mechanisms involved in weight regulation. Cell Reports, 2021, 34, 108862.	2.9	37
645	Exploring the recent molecular targets for diabetes and associated complications. Molecular Biology Reports, 2021, 48, 2863-2879.	1.0	5
647	Development of Generic G Protein Peptidomimetics Able to Stabilize Active State G_s Proteinâ€Coupled Receptors for Application in Drug Discovery. Angewandte Chemie - International Edition, 2021, 60, 10247-10254.	7.2	11
648	Efficiency of Homology Modeling Assisted Molecular Docking in G-protein Coupled Receptors. Current Topics in Medicinal Chemistry, 2021, 21, 269-294.	1.0	7
649	Î²2-adrenoceptor ligand efficacy is tuned by a two-stage interaction with the GÎ±s C terminus. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	14
650	Pinocembrin and its linolenoyl ester derivative induce wound healing activity in HaCaT cell line potentially involving a GPR120/FFA4 mediated pathway. Bioorganic Chemistry, 2021, 108, 104657.	2.0	21
651	Using a bistable animal opsin for switchable and scalable optogenetic inhibition of neurons. EMBO Reports, 2021, 22, e51866.	2.0	20
652	Autoantibodies as Endogenous Modulators of GPCR Signaling. Trends in Pharmacological Sciences, 2021, 42, 135-150.	4.0	35
653	Bacterial Analogs to Cholesterol Affect Dimerization of Proteorhodopsin and Modulates Preferred Dimer Interface. Journal of Chemical Theory and Computation, 2021, 17, 2502-2512.	2.3	6
654	Viral G Proteinâ€"Coupled Receptors: Attractive Targets for Herpesvirus-Associated Diseases. Pharmacological Reviews, 2021, 73, 828-846.	7.1	15
655	Trans-Synaptic Regulation of Metabotropic Glutamate Receptors by Elfn Proteins in Health and Disease. Frontiers in Neural Circuits, 2021, 15, 634875.	1.4	8
656	Directed evolution for high functional production and stability of a challenging G protein-coupled receptor. Scientific Reports, 2021, 11, 8630.	1.6	11
657	Insights into cellular signaling from membrane dynamics. Archives of Biochemistry and Biophysics, 2021, 701, 108794.	1.4	9
659	Nucleic acid ligands act as a PAM and agonist depending on the intrinsic ligand binding state of P2RY2. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	6

#	Article	IF	Citations
660	A Perspective on Synthetic Biology in Drug Discovery and Developmentâ€"Current Impact and Future Opportunities. SLAS Discovery, 2021, 26, 581-603.	1.4	10
661	Correlated Motions of Conserved Polar Motifs Lay out a Plausible Mechanism of G Protein-Coupled Receptor Activation. Biomolecules, 2021, 11, 670.	1.8	2
663	Analysis of Missense Variants in the Human Histamine Receptor Family Reveals Increased Constitutive Activity of E4106.30Ã—30K Variant in the Histamine H1 Receptor. International Journal of Molecular Sciences, 2021, 22, 3702.	1.8	4
664	Peptide targeting of lysophosphatidylinositol-sensing GPR55 for osteoclastogenesis tuning. Cell Communication and Signaling, 2021, 19, 48.	2.7	5
665	Functional approaches to the study of G-protein-coupled receptors in postmortem brain tissue: [35S]GTPÎ³S binding assays combined with immunoprecipitation. Pharmacological Reports, 2021, 73, 1079-1095.	1.5	2
666	Transcriptional signatures in prefrontal cortex confer vulnerability versus resilience to food and cocaine addiction-like behavior. Scientific Reports, 2021, 11, 9076.	1.6	17
667	GPR182 is an endothelium-specific atypical chemokine receptor that maintains hematopoietic stem cell homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	24
668	Approval success rates of drug candidates based on target, action, modality, application, and their combinations. Clinical and Translational Science, 2021, 14, 1113-1122.	1.5	35
669	Influence of G protein-biased agonists of Î¼-opioid receptor on addiction-related behaviors. Pharmacological Reports, 2021, 73, 1033-1051.	1.5	10
670	Coevolution underlies GPCR-G protein selectivity and functionality. Scientific Reports, 2021, 11, 7858.	1.6	7
671	Production of a Human Histamine Receptor for NMR Spectroscopy in Aqueous Solutions. Biomolecules, 2021, 11, 632.	1.8	5
672	The role of intra-articular neuronal CCR2 receptors in knee joint pain associated with experimental osteoarthritis in mice. Arthritis Research and Therapy, 2021, 23, 103.	1.6	27
673	Delineating the conformational landscape of the adenosine A2A receptor during G protein coupling. Cell, 2021, 184, 1884-1894.e14.	13.5	97
674	Dopamine D2 Receptor Agonist Binding Kineticsâ€"Role of a Conserved Serine Residue. International Journal of Molecular Sciences, 2021, 22, 4078.	1.8	5
675	The role of structural dynamics in GPCRâ€mediated signaling. FEBS Journal, 2021, 288, 2461-2489.	2.2	58
676	Biased Allosteric Modulators: New Frontiers in GPCR Drug Discovery. Trends in Pharmacological Sciences, 2021, 42, 283-299.	4.0	94
677	Constitutive G protein coupling profiles of understudied orphan GPCRs. PLoS ONE, 2021, 16, e0247743.	1.1	21
678	Structural basis of GABAB receptorâ€"Gi protein coupling. Nature, 2021, 594, 594-598.	13.7	50

#	Article	IF	Citations
679	Orally Active Peptide Vector Allows Using Cannabis to Fight Pain While Avoiding Side Effects. Journal of Medicinal Chemistry, 2021, 64, 6937-6948.	2.9	9
680	Molecular and pharmacological characterization of biogenic amine receptors from the diamondback moth, <scp>Plutella xylostella</scp>. Pest Management Science, 2021, 77, 4462-4475.	1.7	9
681	Novel advances in understanding fatty acidâ€“binding G proteinâ€“coupled receptors and their roles in controlling energy balance. Nutrition Reviews, 2022, 80, 187-199.	2.6	6
682	In vitro profiling of orphan G protein coupled receptor (GPCR) constitutive activity. British Journal of Pharmacology, 2021, 178, 2963-2975.	2.7	23
683	Comparison of structure- and ligand-based scoring functions for deep generative models: a GPCR case study. Journal of Cheminformatics, 2021, 13, 39.	2.8	33
684	Biased action of the CXCR4-targeting drug plerixafor is essential for its superior hematopoietic stem cell mobilization. Communications Biology, 2021, 4, 569.	2.0	23
685	Affinity Mass Spectrometry-Based Fragment Screening Identified a New Negative Allosteric Modulator of the Adenosine A_{2A} Receptor Targeting the Sodium Ion Pocket. ACS Chemical Biology, 2021, 16, 991-1002.	1.6	15
686	G-Protein Coupled Receptors (GPCRs) in Insectsâ€”A Potential Target for New Insecticide Development. Molecules, 2021, 26, 2993.	1.7	20
687	Identification of immune subtypes of cervical squamous cell carcinoma predicting prognosis and immunotherapy responses. Journal of Translational Medicine, 2021, 19, 222.	1.8	9
688	Psychedelic-inspired drug discovery using an engineered biosensor. Cell, 2021, 184, 2779-2792.e18.	13.5	93
689	Conformational plasticity and dynamic interactions of the N-terminal domain of the chemokine receptor CXCR1. PLoS Computational Biology, 2021, 17, e1008593.	1.5	15
690	Effect of Sodium Valproate on the Conformational Stability of the Visual G Protein-Coupled Receptor Rhodopsin. Molecules, 2021, 26, 3032.	1.7	1
691	An Integrated Approach toward NanoBRET Tracers for Analysis of GPCR Ligand Engagement. Molecules, 2021, 26, 2857.	1.7	3
692	Selection of a picomolar antibody that targets CXCR2-mediated neutrophil activation and alleviates EAE symptoms. Nature Communications, 2021, 12, 2547.	5.8	11
693	G-Protein Coupled Receptors (GPCRs): Signaling Pathways, Characterization, and Functions in Insect Physiology and Toxicology. International Journal of Molecular Sciences, 2021, 22, 5260.	1.8	32
696	ADAM10 Site-Dependent Biology: Keeping Control of a Pervasive Protease. International Journal of Molecular Sciences, 2021, 22, 4969.	1.8	11
697	Deep hierarchical embedding for simultaneous modeling of GPCR proteins in a unified metric space. Scientific Reports, 2021, 11, 9543.	1.6	2
698	G protein-coupled receptors expressed and studied in yeast. The adenosine receptor as a prime example. Biochemical Pharmacology, 2021, 187, 114370.	2.0	5

#	Article	IF	Citations
699	The role of GPR56/ADGRG1 in health and disease. Biomedical Journal, 2021, 44, 534-547.	1.4	25
700	Emerging Molecular Receptors for the Specific-Target Delivery of Ruthenium and Gold Complexes into Cancer Cells. Molecules, 2021, 26, 3153.	1.7	13
701	PAC1 receptorâ€“mediated clearance of tau in postsynaptic compartments attenuates tau pathology in mouse brain. Science Translational Medicine, 2021, 13, .	5.8	18
702	Mapping Angiotensin II Type 1 Receptor-Biased Signaling Using Proximity Labeling and Proteomics Identifies Diverse Actions of Biased Agonists. Journal of Proteome Research, 2021, 20, 3256-3267.	1.8	11
703	GPCRomics of Homeostatic and Disease-Associated Human Microglia. Frontiers in Immunology, 2021, 12, 674189.	2.2	19
704	Can molecular dynamics simulations improve the structural accuracy and virtual screening performance of GPCR models?. PLoS Computational Biology, 2021, 17, e1008936.	1.5	16
705	Understanding the Polypharmacological Profiles of Triple Reuptake Inhibitors by Molecular Simulation. ACS Chemical Neuroscience, 2021, 12, 2013-2026.	1.7	18
706	Vertebrate cells differentially interpret ciliary and extraciliary cAMP. Cell, 2021, 184, 2911-2926.e18.	13.5	73
707	HTR7 promotes laryngeal cancer growth through PI3K/AKT pathway activation. Annals of Translational Medicine, 2021, 9, 840-840.	0.7	4
708	Structures and Dynamics of Native-State Transmembrane Protein Targets and Bound Lipids. Membranes, 2021, 11, 451.	1.4	12
709	Bioorthogonal Reactions of Triarylphosphines and Related Analogues. Chemical Reviews, 2021, 121, 6802-6849.	23.0	42
710	G-protein coupled receptor, PI3K and Rho signaling pathways regulate the cascades of Tau and amyloid-Î² in Alzheimerâ€™s disease. Molecular Biomedicine, 2021, 2, 17.	1.7	19
711	Rational design of allosteric modulators: Challenges and successes. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2021, 11, e1529.	6.2	39
712	G-Protein-Coupled Receptors and Ischemic Stroke: a Focus on Molecular Function and Therapeutic Potential. Molecular Neurobiology, 2021, 58, 4588-4614.	1.9	9
713	Structural basis for the binding of a selective inverse agonist AF64394 with the human G-protein coupled receptor 3 (GPR3). Journal of Biomolecular Structure and Dynamics, 2022, 40, 10181-10190.	2.0	4
714	P17 induces chemotaxis and differentiation of monocytes via MRGPRX2-mediated mast cellâ€“line activation. Journal of Allergy and Clinical Immunology, 2022, 149, 275-291.	1.5	13
715	Integrated Multi-Class Classification and Prediction of GPCR Allosteric Modulators by Machine Learning Intelligence. Biomolecules, 2021, 11, 870.	1.8	15
716	A set of common movements within GPCR-G-protein complexes from variability analysis of cryo-EM datasets. Journal of Structural Biology, 2021, 213, 107699.	1.3	11

#	Article	IF	Citations
717	Modulation of the rat angiotensin type 1a receptor by an upstream short open reading frame. Peptides, 2021, 140, 170529.	1.2	1
719	Design of a Stable Cyclic Peptide Analgesic Derived from Sunflower Seeds that Targets the Î¹-Opioid Receptor for the Treatment of Chronic Abdominal Pain. Journal of Medicinal Chemistry, 2021, 64, 9042-9055.	2.9	17
720	Characterization of the G protein-coupled receptor family SREB across fish evolution. Scientific Reports, 2021, 11, 12066.	1.6	11
722	A novel role of ADGRF1 (GPR110) in promoting cellular quiescence and chemoresistance in human epidermal growth factor receptor 2â€positive breast cancer. FASEB Journal, 2021, 35, e21719.	0.2	13
723	Chemogenomic approach to identifying nematode chemoreceptor drug targets in the entomopathogenic nematode Heterorhabditis bacteriophora. Computational Biology and Chemistry, 2021, 92, 107464.	1.1	0
724	Control of impulsivity by Gi-protein signalling in layer-5 pyramidal neurons of the anterior cingulate cortex. Communications Biology, 2021, 4, 662.	2.0	15
725	Mutational Landscape of the Proglucagon-Derived Peptides. Frontiers in Endocrinology, 2021, 12, 698511.	1.5	7
726	Bitter Taste and Olfactory Receptors: Beyond Chemical Sensing in the Tongue and the Nose. Journal of Membrane Biology, 2021, 254, 343-352.	1.0	4
727	RGS14 Regulation of Post-Synaptic Signaling and Spine Plasticity in Brain. International Journal of Molecular Sciences, 2021, 22, 6823.	1.8	15
728	GPCRsignal: webserver for analysis of the interface between G-proteinâ€“coupled receptors and their effector proteins by dynamics and mutations. Nucleic Acids Research, 2021, 49, W247-W256.	6.5	2
730	Discovery of Novel Allosteric Modulators Targeting an Extra-Helical Binding Site of GLP-1R Using Structure- and Ligand-Based Virtual Screening. Biomolecules, 2021, 11, 929.	1.8	7
731	The role and mechanism of Î²-arrestin2 in signal transduction. Life Sciences, 2021, 275, 119364.	2.0	10
732	Controlling the selectivity of aminergic GPCR ligands from the extracellular vestibule. Bioorganic Chemistry, 2021, 111, 104832.	2.0	8
733	Selective Photoswitchable Allosteric Agonist of a G Protein-Coupled Receptor. Journal of the American Chemical Society, 2021, 143, 8951-8956.	6.6	25
734	G-protein-coupled receptor GPR17 inhibits glioma development by increasing polycomb repressive complex 1-mediated ROS production. Cell Death and Disease, 2021, 12, 610.	2.7	16
735	Targeting the GPR119/incretin axis: a promising new therapy for metabolic-associated fatty liver disease. Cellular and Molecular Biology Letters, 2021, 26, 32.	2.7	16
736	Role of GPR39 in Neurovascular Homeostasis and Disease. International Journal of Molecular Sciences, 2021, 22, 8200.	1.8	13
737	Plant-Derived Cyclotides Modulate Î¹-Opioid Receptor Signaling. Journal of Natural Products, 2021, 84, 2238-2248.	1.5	11

#	Article	IF	Citations
738	Analyses of Gnai3-iresGFP reporter mice reveal unknown GÎ±i3 expression sites. Scientific Reports, 2021, 11, 14271.	1.6	2
739	Detouring adrenergic stimulation to induce adipose thermogenesis. Nature Reviews Endocrinology, 2021, 17, 579-580.	4.3	3
740	GPR151 in nociceptors modulates neuropathic pain via regulating P2X3 function and microglial activation. Brain, 2021, 144, 3405-3420.	3.7	34
741	Potential of Singleâ€Molecule Liveâ€Cell Imaging for Chemical Translational Biology. ChemBioChem, 2021, 22, 2941-2945.	1.3	2
742	Targeting Orphan G Protein-Coupled Receptor 17 with T0 Ligand Impairs Glioblastoma Growth. Cancers, 2021, 13, 3773.	1.7	7
743	Predicted Nâ€terminal N â€linked glycosylation sites may underlie membrane protein expression patterns in Saccharomyces cerevisiae. Yeast, 2021, 38, 497-506.	0.8	2
744	Attenuating senescence and dead cells accumulation as heart failure therapy: Break the communication networks. International Journal of Cardiology, 2021, 334, 72-85.	0.8	2
745	Sequencing of 640,000 exomes identifies GPR75 variants associated with protection from obesity. Science, 2021, 373, .	6.0	130
747	Biomembranes in bioelectronic sensing. Trends in Biotechnology, 2022, 40, 107-123.	4.9	12
748	Conserved residues in the extracellular loop 2 regulate Stachel-mediated activation of ADGRG2. Scientific Reports, 2021, 11, 14060.	1.6	3
749	High-mass MALDI-MS unravels ligand-mediated G proteinâ€“coupling selectivity to GPCRs. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	9
750	Identification of a five-gene signature of the RGS gene family with prognostic value in ovarian cancer. Genomics, 2021, 113, 2134-2144.	1.3	35
751	Ligand-directed bias of G protein signaling at the dopamine D2 receptor. Cell Chemical Biology, 2022, 29, 226-238.e4.	2.5	14
752	Study of the Expression and Function of Calcium-Sensing Receptor in Human Skeletal Muscle. International Journal of Molecular Sciences, 2021, 22, 7282.	1.8	5
754	Membrane Nanoscopic Organization of D2L Dopamine Receptor Probed by Quantum Dot Tracking. Membranes, 2021, 11, 578.	1.4	3
755	Metabolic responses of light and taste receptors â€“ unexpected actions of GPCRs in adipocytes. Reviews in Endocrine and Metabolic Disorders, 2022, 23, 111-120.	2.6	3
756	G-protein-coupled receptors as therapeutic targets for glioblastoma. Drug Discovery Today, 2021, 26, 2858-2870.	3.2	16
757	Unravelling the structural complexity of proteinâ€“lipid interactions with neutron reflectometry. Biochemical Society Transactions, 2021, 49, 1537-1546.	1.6	5

#	Article	IF	Citations
758	Exploring the Activation Process of the Î²2AR-G_sComplex. Journal of the American Chemical Society, 2021, 143, 11044-11051.	6.6	14
759	Cyclic Derivatives of the Chemerin C-Terminus as Metabolically Stable Agonists at the Chemokine-like Receptor 1 for Cancer Treatment. Cancers, 2021, 13, 3788.	1.7	8
760	Current Developments in Native Nanometric Discoidal Membrane Bilayer Formed by Amphipathic Polymers. Nanomaterials, 2021, 11, 1771.	1.9	5
761	Grand Challenges in Molecular Medicine for Disease Prevention and Treatment Through Cyclical Innovation. Frontiers in Molecular Medicine, 2021, 1, .	0.6	2
762	Trends in kinase drug discovery: targets, indications and inhibitor design. Nature Reviews Drug Discovery, 2021, 20, 839-861.	21.5	340
763	Heterogeneity of G protein activation by the calcium-sensing receptor. Journal of Molecular Endocrinology, 2021, 67, 41-53.	1.1	4
764	Profiling novel pharmacology of receptor complexes using Receptor-HIT. Biochemical Society Transactions, 2021, 49, 1555-1565.	1.6	1
765	In a flash of light: X-ray free electron lasers meet native mass spectrometry. Drug Discovery Today: Technologies, 2021, 39, 89-99.	4.0	7
767	Targeting and Covalently Immobilizing the EGFR through SNAP-Tag Technology for Screening Drug Leads. Analytical Chemistry, 2021, 93, 11719-11728.	3.2	24
768	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
769	Molecular Mechanism of Ca²⁺ in the Allosteric Regulation of Human Parathyroid Hormone Receptor-1. Journal of Chemical Information and Modeling, 2022, 62, 5110-5119.	2.5	14
770	A nanobody activating metabotropic glutamate receptor 4 discriminates between homo- and heterodimers. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	11
771	Functional metabolomics innovates therapeutic discovery of traditional Chinese medicine derived functional compounds. , 2021, 224, 107824.		31
772	Calcium Channels: Noteworthy Regulators and Therapeutic Targets in Dermatological Diseases. Frontiers in Pharmacology, 2021, 12, 702264.	1.6	12
773	A focused review on CB2 receptor-selective pharmacological properties and therapeutic potential of Î²-caryophyllene, a dietary cannabinoid. Biomedicine and Pharmacotherapy, 2021, 140, 111639.	2.5	35
774	Proteinâ€“Small Molecule Interactions in Native Mass Spectrometry. Chemical Reviews, 2022, 122, 7327-7385.	23.0	46
775	BiasNet: A Model to Predict Ligand Bias Toward GPCR Signaling. Journal of Chemical Information and Modeling, 2021, 61, 4190-4199.	2.5	6
776	Maltose-bis(hydroxymethyl)phenol (MBPs) and Maltose-tris(hydroxymethyl)phenol (MTPs) Amphiphiles for Membrane Protein Stability. ACS Chemical Biology, 2021, 16, 1779-1790.	1.6	6

#	Article	IF	Citations
777	Molecular Properties and Therapeutic Targeting of the EBV-Encoded Receptor BILF1. Cancers, 2021, 13, 4079.	1.7	6
778	Activation pathway of a G protein-coupled receptor uncovers conformational intermediates as targets for allosteric drug design. Nature Communications, 2021, 12, 4721.	5.8	124
779	S1PR3â€“G12-biased agonist ALESIA targets cancer metabolism and promotes glucose starvation. Cell Chemical Biology, 2021, 28, 1132-1144.e9.	2.5	3
780	Exploring Ligand Binding to Calcitonin Gene-Related Peptide Receptors. Frontiers in Molecular Biosciences, 2021, 8, 720561.	1.6	5
781	Discovery of â€œMolecular Switchesâ€•within a Series of mGlu₅ Allosteric Ligands Driven by a â€œMagic Methylâ€•Effect Affording Both PAMs and NAMs with In Vivo Activity, Derived from an M₁ PAM Chemotype. ACS Bio & Med Chem Au, 2021, 1, 21-30.	1.7	3
782	Cation-Ï€ Interactions and their Functional Roles in Membrane Proteins. Journal of Molecular Biology, 2021, 433, 167035.	2.0	59
783	Biased and allosteric modulation of bone cell-expressing G protein-coupled receptors as a novel approach to osteoporosis therapy. Pharmacological Research, 2021, 171, 105794.	3.1	12
784	Development and validation of multiple machine learning algorithms for the classification of G-protein-coupled receptors using molecular evolution model-based feature extraction strategy. Amino Acids, 2021, 53, 1705-1714.	1.2	2
785	Conformation-specific monoclonal antibodies recognizing the native structure of G protein-coupled receptor (GPCR). International Immunopharmacology, 2021, 98, 107872.	1.7	2
786	Measuring Pharmacogene Variant Function at Scale Using Multiplexed Assays. Annual Review of Pharmacology and Toxicology, 2022, 62, 531-550.	4.2	9
787	The G protein database, GproteinDb. Nucleic Acids Research, 2022, 50, D518-D525.	6.5	49
789	Perinatal SSRI Exposure Disrupts G Protein-coupled Receptor BAI3 in Developing Dentate Gyrus and Adult Emotional Behavior: Relevance to Psychiatric Disorders. Neuroscience, 2021, 471, 32-50.	1.1	8
790	GPCR Pharmacological Profiling of Aaptamine from the Philippine Sponge Stylissa sp. Extends Its Therapeutic Potential for Noncommunicable Diseases. Molecules, 2021, 26, 5618.	1.7	2
792	Label-Free Investigations on the G Protein Dependent Signaling Pathways of Histamine Receptors. International Journal of Molecular Sciences, 2021, 22, 9739.	1.8	7
793	Differential Regulation of Interferon Signaling Pathways in CD4+ T Cells of the Low Type-2 Obesity-Associated Asthma Phenotype. International Journal of Molecular Sciences, 2021, 22, 10144.	1.8	13
794	The macrophage odorant receptor Olfr78 mediates the lactate-induced M2 phenotype of tumor-associated macrophages. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	57
795	GPCR oligomerization as a target for antidepressants: Focus on GPR39. , 2021, 225, 107842.		7
796	Biased agonists with less glucagon-like peptide-1 receptor-mediated endocytosis prolong hypoglycaemic effects. European Journal of Pharmacology, 2021, 907, 174203.	1.7	3

#	Article	IF	Citations
798	Î²-Arrestinâ€“Biased Allosteric Modulator Potentiates Carvedilol-Stimulated Î² Adrenergic Receptor Cardioprotection. Molecular Pharmacology, 2021, 100, 568-579.	1.0	24
799	Deconstructing the transmembrane core of class A G proteinâ€“coupled receptors. Trends in Biochemical Sciences, 2021, 46, 1017-1029.	3.7	13
800	Universal Properties and Specificities of the Î²2-Adrenergic Receptor-Gs Protein Complex Activation Mechanism Revealed by All-Atom Molecular Dynamics Simulations. International Journal of Molecular Sciences, 2021, 22, 10423.	1.8	3
801	Advances in the molecular understanding of G protein-coupled receptors and their future therapeutic opportunities. Future Journal of Pharmaceutical Sciences, 2021, 7, .	1.1	1
802	Differential barcoding of opioid receptors trafficking. Journal of Neuroscience Research, 2022, 100, 99-128.	1.3	2
803	Evidence that specific interactions play a role in the cholesterol sensitivity of G protein-coupled receptors. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183557.	1.4	9
804	Novel Role of GPR35 (G-Proteinâ€“Coupled Receptor 35) in the Regulation of Endothelial Cell Function and Blood Pressure. Hypertension, 2021, 78, 816-830.	1.3	8
806	KP-10/Gpr54 attenuates rheumatic arthritis through inactivating NF-ÎºB and MAPK signaling in macrophages. Pharmacological Research, 2021, 171, 105496.	3.1	16
807	Effect of tertiary amine local anesthetics on G protein-coupled receptor lateral diffusion and actin cytoskeletal reorganization. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183547.	1.4	3
808	A human antibody against human endothelin receptor type A that exhibits antitumor potency. Experimental and Molecular Medicine, 2021, 53, 1437-1448.	3.2	12
809	Structure determination of GPCRs: cryo-EM compared with X-ray crystallography. Biochemical Society Transactions, 2021, 49, 2345-2355.	1.6	50
810	Probe Confined Dynamic Mapping for G Protein-Coupled Receptor Allosteric Site Prediction. ACS Central Science, 2021, 7, 1847-1862.	5.3	15
811	GPR171 Agonist Reduces Chronic Neuropathic and Inflammatory Pain in Male, But Not Female Mice. Frontiers in Pain Research, 2021, 2, 695396.	0.9	8
813	Specific Engineered G Protein Coupling to Histamine Receptors Revealed from Cellular Assay Experiments and Accelerated Molecular Dynamics Simulations. International Journal of Molecular Sciences, 2021, 22, 10047.	1.8	4
814	Phylum-Spanning Neuropeptide GPCR Identification and Prioritization: Shaping Drug Target Discovery Pipelines for Nematode Parasite Control. Frontiers in Endocrinology, 2021, 12, 718363.	1.5	11
815	The Specificity and Broad Multitarget Properties of Ligands for the Free Fatty Acid Receptors FFA3/GPR41 and FFA2/GPR43 and the Related Hydroxycarboxylic Acid Receptor HCA2/GPR109A. Pharmaceuticals, 2021, 14, 987.	1.7	4
816	Adenylyl cyclase 3 regulates osteocyte mechanotransduction and primary cilium. Biochemical and Biophysical Research Communications, 2021, 573, 145-150.	1.0	4
817	Molecular interaction of HIC, an agonist of P2Y1 receptor, and its role in prostate cancer apoptosis. International Journal of Biological Macromolecules, 2021, 189, 142-150.	3.6	10

#	Article	IF	Citations
818	Identification of the interactome of the DP1 receptor for Prostaglandin D2: Regulation of DP1 receptor signaling and trafficking by IQGAP1. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129969.	1.1	4
819	Obesity-induced changes in human islet G protein-coupled receptor expression: Implications for metabolic regulation. , 2021, 228, 107928.		14
820	The promise of graphene-based transistors for democratizing multiomics studies. Biosensors and Bioelectronics, 2022, 195, 113605.	5.3	25
821	The Role of G Protein-Coupled Receptor Signaling in Gynecologic Malignancy. Current Human Cell Research and Applications, 2021, , 57-70.	0.1	0
822	Can GPR4 Be a Potential Therapeutic Target for COVID-19?. Frontiers in Medicine, 2020, 7, 626796.	1.2	7
824	Analysis of the Function of Receptor Oligomers by Operational Models of Agonism. , 2021, , .		0
825	Comprehensive overview of biased pharmacology at the opioid receptors: biased ligands and bias factors. RSC Medicinal Chemistry, 2021, 12, 828-870.	1.7	16
826	Genome-wide screening for the G-protein-coupled receptor (GPCR) pathway-related therapeutic gene RGS19 (regulator of G protein signaling 19) in bladder cancer. Bioengineered, 2021, 12, 5892-5903.	1.4	6
827	Identification of ligand-specific G protein-coupled receptor states and prediction of downstream efficacy via data-driven modeling. ELife, 2021, 10, .	2.8	40
828	Inhibitor binding influences the protonation states of histidines in SARS-CoV-2 main protease. Chemical Science, 2021, 12, 1513-1527.	3.7	47
829	Inactivation of parathyroid hormone: perspectives of drug discovery to combating hyperparathyroidism. Current Molecular Pharmacology, 2021, 14, .	0.7	2
830	Synthesis and structureâ€“activity relationships of 3,4,5-trisubstituted-1,2,4-triazoles: high affinity and selective somatostatin receptor-4 agonists for Alzheimer's disease treatment. RSC Medicinal Chemistry, 2021, 12, 1352-1365.	1.7	3
831	Inhibition of sphingosine 1â€phosphate (S1P) receptor 1/2/3 ameliorates biological dysfunction in rheumatoid arthritis fibroblastâ€like synoviocyte MH7A cells through GÎ±i/GÎ±s rebalancing. Clinical and Experimental Pharmacology and Physiology, 2021, 48, 1080-1089.	0.9	5
832	GLP-1 Val8: A Biased GLP-1R Agonist with Altered Binding Kinetics and Impaired Release of Pancreatic Hormones in Rats. ACS Pharmacology and Translational Science, 2021, 4, 296-313.	2.5	24
833	The chromodepsins â€“ chemistry, biology and biosynthesis of a selective Gq inhibitor natural product family. Natural Product Reports, 2021, 38, 2276-2292.	5.2	13
834	Efficient production of a functional G protein-coupled receptor in E. coli for structural studies. Journal of Biomolecular NMR, 2021, 75, 25-38.	1.6	9
835	Targeting lipid GPCRs to treat typeÂ2 diabetes mellitus â€” progress and challenges. Nature Reviews Endocrinology, 2021, 17, 162-175.	4.3	52
836	G protein-coupled receptors: structure- and function-based drug discovery. Signal Transduction and Targeted Therapy, 2021, 6, 7.	7.1	241

#	Article	IF	Citations
837	Current and Future Challenges in Modern Drug Discovery. Methods in Molecular Biology, 2020, 2114, 1-17.	0.4	10
838	Optogenetic Techniques for Manipulating and Sensing G Protein-Coupled Receptor Signaling. Methods in Molecular Biology, 2020, 2173, 21-51.	0.4	7
839	Advances in Structure Determination of G Protein-Coupled Receptors by SFX. , 2018, , 301-329.		2
840	GPCR Allosteric Modulator Discovery. Advances in Experimental Medicine and Biology, 2019, 1163, 225-251.	0.8	29
841	M1 muscarinic acetylcholine receptors: A therapeutic strategy for symptomatic and disease-modifying effects in Alzheimer's disease?. Advances in Pharmacology, 2020, 88, 277-310.	1.2	32
842	Synthetic receptors to understand and control cellular functions. Methods in Enzymology, 2020, 633, 143-167.	0.4	11
843	G Protein-Coupled Receptor GPR87 Promotes the Expansion of PDA Stem Cells through Activating JAK2/STAT3. Molecular Therapy - Oncolytics, 2020, 17, 384-393.	2.0	10
844	Targeting GPCR Signaling for Idiopathic Pulmonary Fibrosis Therapies. Trends in Pharmacological Sciences, 2020, 41, 172-182.	4.0	42
845	How Do Branched Detergents Stabilize GPCRs in Micelles?. Biochemistry, 2020, 59, 2125-2134.	1.2	37
846	Modular detergents tailor the purification and structural analysis of membrane proteins including G-protein coupled receptors. Nature Communications, 2020, 11, 564.	5.8	72
847	Natural allosteric modulators and their biological targets: molecular signatures and mechanisms. Natural Product Reports, 2020, 37, 488-514.	5.2	18
848	Identification and characterization of adipose surface epitopes. Biochemical Journal, 2020, 477, 2509-2541.	1.7	9
849	Membrane protein crystallography in the era of modern structural biology. Biochemical Society Transactions, 2020, 48, 2505-2524.	1.6	9
863	Post-Translational Modifications of G Proteinâ€“Coupled Receptors Control Cellular Signaling Dynamics in Space and Time. Pharmacological Reviews, 2021, 73, 120-151.	7.1	86
864	A structural basis for how ligand binding site changes can allosterically regulate GPCR signaling and engender functional selectivity. Science Signaling, 2020, 13, .	1.6	31
865	Integrated human pseudoislet system and microfluidic platform demonstrate differences in GPCR signaling in islet cells. JCI Insight, 2020, 5, .	2.3	35
866	Potential for Kappa-Opioid Receptor Agonists to Engineer Nonaddictive Analgesics: A Narrative Review. Anesthesia and Analgesia, 2021, 132, 406-419.	1.1	15
867	Anti-GPCR Antibodies. Materials and Methods, 0, 8, .	0.0	2

#	Article	IF	Citations
868	Improving homology modeling from low-sequence identity templates in Rosetta: A case study in GPCRs. PLoS Computational Biology, 2020, 16, e1007597.	1.5	37
869	Combined targeting of G proteinâ€coupled receptor and <scp>EGF</scp> receptor signaling overcomes resistance to <scp>PI</scp> 3K pathway inhibitors in <scp>PTEN</scp> â€null triple negative breast cancer. EMBO Molecular Medicine, 2020, 12, e11987.	3.3	17
870	Driving gonadotrophin hormone receptor signalling: the role of membrane trafficking. Reproduction, 2018, 156, R195-R208.	1.1	9
871	Hyperlipidemia impairs uterine Î²-adrenergic signaling by reducing cAMP in late pregnant rats. Reproduction, 2020, 159, 49-58.	1.1	5
872	Olfactory Loss and Dysfunction in Ciliopathies: Molecular Mechanisms and Potential Therapies. Current Medicinal Chemistry, 2019, 26, 3103-3119.	1.2	24
873	G Protein-coupled Receptors in Cancer Stem Cells. Current Pharmaceutical Design, 2020, 26, 1952-1963.	0.9	6
874	Established and In-trial GPCR Families in Clinical Trials: A Review for Target Selection. Current Drug Targets, 2019, 20, 522-539.	1.0	17
875	Understanding Membrane Protein Drug Targets in Computational Perspective. Current Drug Targets, 2019, 20, 551-564.	1.0	45
876	Targeting the 5-HT2C Receptor in Biological Context and the Current State of 5-HT2C Receptor Ligand Development. Current Topics in Medicinal Chemistry, 2019, 19, 1381-1398.	1.0	40
877	Recent Advances in the Drug Discovery and Development of Dualsteric/ Bitopic Activators of G Protein-Coupled Receptors. Current Topics in Medicinal Chemistry, 2019, 19, 2378-2392.	1.0	14
878	Quantification of The Surface Expression of G Protein-coupled Receptors Using Intact Live-cell Radioligand Binding Assays. Bio-protocol, 2020, 10, .	0.2	2
879	ADGRF4 Regulates Non-small Cell Lung Cancer Cell Invasiveness. Anticancer Research, 2020, 40, 6835-6844.	0.5	4
880	HTR6 and SSTR3 ciliary targeting relies on both IC3 loops and C-terminal tails. Life Science Alliance, 2021, 4, e202000746.	1.3	17
881	Surface Plasmon Resonance as a Tool for Ligand Binding Investigation of Engineered GPR17 Receptor, a G Protein Coupled Receptor Involved in Myelination. Frontiers in Chemistry, 2019, 7, 910.	1.8	24
882	Hybrid MM/CG Webserver: Automatic Set Up of Molecular Mechanics/Coarse-Grained Simulations for Human G Protein-Coupled Receptor/Ligand Complexes. Frontiers in Molecular Biosciences, 2020, 7, 576689.	1.6	7
883	The Impact of Immunological Checkpoint Inhibitors and Targeted Therapy on Chronic Pruritus in Cancer Patients. Biomedicines, 2021, 9, 2.	1.4	3
884	Dynamical Correlations Reveal Allosteric Sites in G Protein-Coupled Receptors. International Journal of Molecular Sciences, 2021, 22, 187.	1.8	6
885	Roles of G protein-coupled receptors in inflammatory bowel disease. World Journal of Gastroenterology, 2020, 26, 1242-1261.	1.4	24

#	Article	IF	Citations
886	Identification of compounds that rescue otic and myelination defects in the zebrafish adgrg6 (gpr126) mutant. ELife, 2019, 8, .	2.8	19
887	Cryo-EM structure of the rhodopsin-GÎ±i-Î²Î³ complex reveals binding of the rhodopsin C-terminal tail to the gÎ² subunit. ELife, 2019, 8, .	2.8	52
888	Common activation mechanism of class A GPCRs. ELife, 2019, 8, .	2.8	339
889	Structural and functional characterization of G proteinâ€“coupled receptors with deep mutational scanning. ELife, 2020, 9, .	2.8	91
890	Bile Acid Receptors and the Gutâ€“Liver Axis in Nonalcoholic Fatty Liver Disease. Cells, 2021, 10, 2806.	1.8	39
891	Artificial intelligence and machine learning approaches for drug design: challenges and opportunities for the pharmaceutical industries. Molecular Diversity, 2022, 26, 1893-1913.	2.1	35
892	GPR21 Inhibition Increases Glucose-Uptake in HepG2 Cells. International Journal of Molecular Sciences, 2021, 22, 10784.	1.8	3
893	Brain Cancer Drug Discovery: Clinical Trials, Drug Classes, Targets, and Combinatorial Therapies. Pharmacological Reviews, 2021, 73, 1172-1203.	7.1	13
894	The new fate of internalized membrane receptors: Internalized activation. , 2022, 233, 108018.		8
895	AKAP13 couples GPCR signaling to mTORC1 inhibition. PLoS Genetics, 2021, 17, e1009832.	1.5	12
896	Genome Mining-Based Discovery of Blenny Fish-Derived Peptides Targeting the Mouse Î¼-Opioid Receptor. Frontiers in Pharmacology, 2021, 12, 773029.	1.6	1
897	Identification and Functional Analysis of G Protein-Coupled Receptors in 20-Hydroxyecdysone Signaling From the Helicoverpa armigera Genome. Frontiers in Cell and Developmental Biology, 2021, 9, 753787.	1.8	5
898	The emerging roles of GÎ±12/13 proteins on the hallmarks of cancer in solid tumors. Oncogene, 2022, 41, 147-158.	2.6	15
900	Pharmacological Modulation of Immune Responses by Nutritional Components. Pharmacological Reviews, 2021, 73, 1369-1403.	7.1	11
901	Anionic Dendritic Polyglycerol for Protein Purification and Delipidation. ACS Applied Polymer Materials, 2021, 3, 5903-5911.	2.0	11
902	Therapeutically Targeting TGR5 and P2Y Receptors. , 2018, , 57-76.		0
907	G protein-coupled receptor signaling in cardiovascular system: Specificity versus diversity. Journal of the Practice of Cardiovascular Sciences, 2019, 5, 68.	0.0	0
908	Small-Molecule Ligands as Challenge for Positron Emission Tomography of Peptide Receptors in Neurons and Microglia of the Brain. World Journal of Neuroscience, 2019, 09, 294-327.	0.1	1

#	Article	IF	Citations
910	Heat Shock Protein 60: An Effective Target Candidate in Neurological Diseases Treatment. Heat Shock Proteins, 2019, , 227-239.	0.2	0
911	Analysis and Modelling of False Positives in GPCR Assays. Lecture Notes in Computer Science, 2019, , 764-770.	1.0	0
913	Functional Water Dynamics in Rhodopsin Using Solidâ€State Deuterium NMR Spectroscopy. FASEB Journal, 2019, 33, 655.9.	0.2	0
917	Water Soluble G-protein Coupled Receptor Enabled Biosensors. Translational Perioperative and Pain Medicine, 2019, 6, 98-103.	0.0	4
918	Synthetic GPCRs and signal transduction cascades. Emerging Topics in Life Sciences, 2019, 3, 609-614.	1.1	1
921	Der Flaschenhals â€“ von der Forschung zur Entwicklung. , 2020, , 73-115.		2
929	The constitutive activity of the viral-encoded G protein-coupled receptor US28 supports a complex signalling network contributing to cancer development. Biochemical Society Transactions, 2020, 48, 1493-1504.	1.6	5
930	Nonantimicrobial Actions of Macrolides: Overview and Perspectives for Future Development. Pharmacological Reviews, 2021, 73, 1404-1433.	7.1	40
931	Functional solubilization of the Î²2-adrenoceptor using diisobutylene maleic acid. IScience, 2021, 24, 103362.	1.9	8
932	Transcriptome Profiling of Dysregulated GPCRs Reveals Overlapping Patterns across Psychiatric Disorders and Age-Disease Interactions. Cells, 2021, 10, 2967.	1.8	13
933	Magic angle spinning NMR of G protein-coupled receptors. Progress in Nuclear Magnetic Resonance Spectroscopy, 2022, 128, 25-43.	3.9	3
936	OUP accepted manuscript. Database: the Journal of Biological Databases and Curation, 2020, 2020, .	1.4	4
937	Developing a machine learning model to identify proteinâ€“protein interaction hotspots to facilitate drug discovery. PeerJ, 2020, 8, e10381.	0.9	2
939	The G-protein Î²Î³ subunits regulate platelet function. Life Sciences, 2020, 262, 118481.	2.0	1
940	Allosteric Modulators for GPCRs as a Therapeutic Alternative with High Potential in Drug Discovery. , 0, , .		2
941	Assays for detecting arrestin interaction with GPCRs. Methods in Cell Biology, 2021, 166, 43-65.	0.5	3
942	pdCSM-GPCR: predicting potent GPCR ligands with graph-based signatures. Bioinformatics Advances, 2021, 1, vbab031.	0.9	10
943	Characterizing Rhodopsin-Arrestin Interactions with the Fragment Molecular Orbital (FMO) Method. Methods in Molecular Biology, 2020, 2114, 177-186.	0.4	1

#	Article	IF	Citations
945	Heterotrimeric G Protein Subunit GÎ±q is a Master Switch for GÎ²Î³-Mediated Calcium Mobilization by Gi-Coupled GPCRs. SSRN Electronic Journal, 0, , .	0.4	1
947	Phote-HrTH (Phormia terraenovae Hypertrehalosaemic Hormone), the Metabolic Hormone of the Fruit Fly: Solution Structure and Receptor Binding Model. Australian Journal of Chemistry, 2020, 73, 202.	0.5	4
948	Analyzing GPCR-Ligand Interactions with the Fragment Molecular Orbital (FMO) Method. Methods in Molecular Biology, 2020, 2114, 163-175.	0.4	1
949	Psychedelic-Inspired Drug Discovery Using an Engineered Biosensor. SSRN Electronic Journal, 0, , .	0.4	1
950	Cyclic peptide drugs approved in the last two decades (2001â€“2021). RSC Chemical Biology, 2022, 3, 18-31.	2.0	114
951	Data-Driven Analysis of Fluorination of Ligands of Aminergic G Protein Coupled Receptors. Biomolecules, 2021, 11, 1647.	1.8	2
953	Roles of G Protein-Coupled Receptors (GPCRs) in Gastrointestinal Cancers: Focus on Sphingosine 1-Shosphate Receptors, Angiotensin II Receptors, and Estrogen-Related GPCRs. Cells, 2021, 10, 2988.	1.8	10
954	Insights into lipid-protein interactions from computer simulations. Biophysical Reviews, 2021, 13, 1019-1027.	1.5	13
955	Identification of Novel Antagonists Targeting Cannabinoid Receptor 2 Using a Multi-Step Virtual Screening Strategy. Molecules, 2021, 26, 6679.	1.7	4
956	A guide to adhesion GPCR research. FEBS Journal, 2022, 289, 7610-7630.	2.2	19
957	Structure based prediction of a novel GPR120 antagonist based on pharmacophore screening and molecular dynamics simulations. Computational and Structural Biotechnology Journal, 2021, 19, 6050-6063.	1.9	9
958	Angiotensin II Type 1 Receptor Tachyphylaxis Is Defined by Agonist Residence Time. Hypertension, 2022, 79, 115-125.	1.3	4
960	Fluorescence Fluctuation Techniques for the Investigation of Structure-Function Relationships of G-Protein-Coupled Receptors. , 0, , .		0
962	Functionalization and Bioconjugation of Nanoruby for Long-Term, Ultrasensitive Imaging of Îœu-Opioid Receptors. Methods in Molecular Biology, 2021, 2201, 59-70.	0.4	0
963	Isoforms of GPCR proteins combine for diverse signalling. Nature, 2020, 587, 553-554.	13.7	1
966	Novel Non-Opioid Based Therapeutics for Chronic Neuropathic Pain. Missouri Medicine, 2021, 118, 327-333.	0.3	0
967	Single-molecule Imaging of GPCRs: An Application to the Drug Evaluation and Pharmacology. Seibutsu Butsuri, 2021, 61, 366-369.	0.0	0
968	GPCR activation mechanisms across classes and macro/microscales. Nature Structural and Molecular Biology, 2021, 28, 879-888.	3.6	98

#	Article	IF	Citations
970	A new class of 5â€HT_{2A}/5â€HT_{2C} receptor inverse agonists: Synthesis, molecular modeling, in vitro and in vivo pharmacology of novel 2â€aminotetralins. British Journal of Pharmacology, 2022, 179, 2610-2630.	2.7	7
971	Exploring the signaling space of a GPCR using bivalent ligands with a rigid oligoproline backbone. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	5
972	Biophysical and functional characterization of the human TAS1R2 sweet taste receptor overexpressed in a HEK293S inducible cell line. Scientific Reports, 2021, 11, 22238.	1.6	11
973	Analysis of L-DOPA and droxidopa binding to human Î²2-adrenergic receptor. Biophysical Journal, 2021, , .	0.2	1
974	Structural Basis of Arrestin Selectivity for Active Phosphorylated G Protein-Coupled Receptors. International Journal of Molecular Sciences, 2021, 22, 12481.	1.8	7
975	Deciphering conformational selectivity in the A2A adenosine G protein-coupled receptor by free energy simulations. PLoS Computational Biology, 2021, 17, e1009152.	1.5	5
976	Innovative Therapeutic Approaches for Huntingtonâ€™s Disease: From Nucleic Acids to GPCR-Targeting Small Molecules. Frontiers in Cellular Neuroscience, 2021, 15, 785703.	1.8	14
977	GM1 Is Cytoprotective in GPR37-Expressing Cells and Downregulates Signaling. International Journal of Molecular Sciences, 2021, 22, 12859.	1.8	3
978	A cell-based multiplex immunoassay platform using fluorescent protein-barcoded reporter cell lines. Communications Biology, 2021, 4, 1338.	2.0	6
979	A positive allosteric modulator for the muscarinic receptor (M1 mAChR) improves pathology and cognitive deficits in female <scp>APPswe</scp>/PSEN1Î”E9 mice. British Journal of Pharmacology, 2022, 179, 1769-1783.	2.7	14
980	Probing Allosteric Regulation Mechanism of W7.35 on Agonist-Induced Activity for Î¼OR by Mutation Simulation. Journal of Chemical Information and Modeling, 2022, 62, 5120-5135.	2.5	6
981	Cardiovascular Drugs: an Insight of In Silico Drug Design Tools. Journal of Pharmaceutical Innovation, 2022, 17, 1484-1509.	1.1	2
983	NMR spectroscopy of lipidic cubic phases. Biophysical Reviews, 2022, 14, 67-74.	1.5	8
984	Cholesterol-dependent endocytosis of GPCRs: implications in pathophysiology and therapeutics. Biophysical Reviews, 2021, 13, 1007-1017.	1.5	5
985	An online GPCR structure analysis platform. Nature Structural and Molecular Biology, 2021, 28, 875-878.	3.6	16
986	Lipopeptide Pepducins as Therapeutic Agents. Methods in Molecular Biology, 2022, 2383, 307-333.	0.4	4
987	Allosteric Effect of Nanobody Binding on Ligand-Specific Active States of the Î²2 Adrenergic Receptor. Journal of Chemical Information and Modeling, 2021, 61, 6024-6037.	2.5	14
988	State-Targeting Stabilization of Adenosine A2A Receptor by Fusing a Custom-Made De Novo Designed Î±-Helical Protein. International Journal of Molecular Sciences, 2021, 22, 12906.	1.8	2

#	Article	IF	Citations
989	G protein-coupled receptors that influence lifespan of human and animal models. Biogerontology, 2022, 23, 1-19.	2.0	13
990	Strategies for targeting cell surface proteins using multivalent conjugates and chemical biology. Methods in Cell Biology, 2021, 166, 205-222.	0.5	6
991	Evaluating functional ligand-GPCR interactions in cell-based assays. Methods in Cell Biology, 2021, 166, 15-42.	0.5	3
992	Intestinal Gpr17 deficiency improves glucose metabolism by promoting GLP-1 secretion. Cell Reports, 2022, 38, 110179.	2.9	5
993	Allosteric modulation of the adenosine A2A receptor by cholesterol. ELife, 2022, 11, .	2.8	25
994	GPCR-FEX: A Fluoride-Based Selection System for Rapid GPCR Screening and Engineering. ACS Synthetic Biology, 2022, 11, 39-45.	1.9	1
995	Corticotropin releasing hormone receptor 2 antagonist, RQ-00490721, for the prevention of pressure overload-induced cardiac dysfunction. Biomedicine and Pharmacotherapy, 2022, 146, 112566.	2.5	0
996	Comprehensive biological {DNA/RNA binding profile, cleavage &cytotoxicity activity} of structurally well-characterized chromone-appended Cu(II)(L1-3)(phen) potential anticancer drug candidates. Polyhedron, 2022, 214, 115638.	1.0	10
997	Ligand-based G Protein Coupled Receptor pharmacophore modeling: Assessing the role of ligand function in model development. Journal of Molecular Graphics and Modelling, 2022, 111, 108107.	1.3	11
998	Structure-Based Virtual Screening for Ligands of G Proteinâ€“Coupled Receptors: What Can Molecular Docking Do for You?. Pharmacological Reviews, 2021, 73, 1698-1736.	7.1	61
1000	From Obesity to Diabetes: The Role of the Adipose Organ. Handbook of Experimental Pharmacology, 2022, , 75-92.	0.9	10
1001	Fluorescent Ligand-Based Discovery of Small-Molecule Sulfonamide Agonists for GPR120. Frontiers in Chemistry, 2022, 10, 816014.	1.8	3
1002	Targeting GPCRs and Their Signaling as a Therapeutic Option in Melanoma. Cancers, 2022, 14, 706.	1.7	8
1003	Neurokinin-1 receptor promotes non-small cell lung cancer progression through transactivation of EGFR. Cell Death and Disease, 2022, 13, 41.	2.7	22
1004	High-content phenotypic screening identifies novel chemistries that disrupt mosquito activity and development. Pesticide Biochemistry and Physiology, 2022, 182, 105037.	1.6	2
1005	Trends in Antidiabetic Drug Discovery: FDA Approved Drugs, New Drugs in Clinical Trials and Global Sales. Frontiers in Pharmacology, 2021, 12, 807548.	1.6	64
1006	Molecular insights into the allosteric coupling mechanism between an agonist and two different transducers for Î¼-opioid receptors. Physical Chemistry Chemical Physics, 2022, 24, 5282-5293.	1.3	3
1007	G Protein-Coupled Receptors in Osteoarthritis. Frontiers in Endocrinology, 2021, 12, 808835.	1.5	1

#	Article	IF	Citations
1008	Emerging therapeutic targets for cardiac hypertrophy. Expert Opinion on Therapeutic Targets, 2022, 26, 29-40.	1.5	14
1010	Molecular determinants of GPCR pharmacogenetics: Deconstructing the population variants in Î²2-adrenergic receptor. Advances in Protein Chemistry and Structural Biology, 2022, 128, 361-396.	1.0	1
1011	Structural perspective of class B1 GPCR signaling. Trends in Pharmacological Sciences, 2022, 43, 321-334.	4.0	35
1012	Drug repositioning of COVID-19 based on mixed graph network and ion channel. Mathematical Biosciences and Engineering, 2022, 19, 3269-3284.	1.0	2
1013	Driver mutations in ADGRL3 are involved in the evolution of ependymoma. Laboratory Investigation, 2022, , .	1.7	2
1014	ChemerinÂâ€“ exploring a versatile adipokine. Biological Chemistry, 2022, 403, 625-642.	1.2	17
1015	Effect of Ions and Sequence Variants on the Antagonist Binding Properties of the Histamine H1 Receptor. International Journal of Molecular Sciences, 2022, 23, 1420.	1.8	3
1016	Knock-In Mouse Models to Investigate the Functions of Opioid Receptors in vivo. Frontiers in Cellular Neuroscience, 2022, 16, 807549.	1.8	5
1017	Agonist-induced extracellular vesicles contribute to the transfer of functional bombesin receptor-subtype 3 to recipient cells. Cellular and Molecular Life Sciences, 2022, 79, 72.	2.4	0
1018	Simulating Time-Resolved Dynamics of Biomolecular Systems. , 2022, , 115-134.		2
1020	Heterotrimeric Gq proteinsÂact as a switch for GRK5/6 selectivity underlying Î²-arrestin transducer bias. Nature Communications, 2022, 13, 487.	5.8	53
1021	Community guidelines for GPCR ligand bias: IUPHAR review 32. British Journal of Pharmacology, 2022, 179, 3651-3674.	2.7	84
1022	The regulation of PKA signaling in obesity and in the maintenance of metabolic health. , 2022, 237, 108113.		35
1023	Ions as GPCR allosteric modulators. , 2022, , 47-69.		0
1024	Allosteric ligands to study medium and long chain free fatty acid GPCRs. , 2022, , 97-116.		0
1025	BINANA 2: Characterizing Receptor/Ligand Interactions in Python and JavaScript. Journal of Chemical Information and Modeling, 2022, 62, 753-760.	2.5	12
1026	Structural and Functional Diversity of Animal Toxins Interacting With GPCRs. Frontiers in Molecular Biosciences, 2022, 9, 811365.	1.6	10
1027	G protein-coupled receptors as regulators of pancreatic islet functionality. Biochimica Et Biophysica Acta - Molecular Cell Research, 2022, 1869, 119235.	1.9	4

#	Article	IF	Citations
1028	Predicting the Activities of Drug Excipients on Biological Targets using One-Shot Learning. Journal of Physical Chemistry B, 2022, 126, 1492-1503.	1.2	5
1029	The Elastin Receptor Complex: An Emerging Therapeutic Target Against Age-Related Vascular Diseases. Frontiers in Endocrinology, 2022, 13, 815356.	1.5	11
1030	GPR64, Screened from Ewing Sarcoma Cells, Is a Potential Target for Antibody-Based Therapy for Various Sarcomas. Cancers, 2022, 14, 814.	1.7	5
1031	NPY1R exerts inhibitory action on estradiol-stimulated growth and predicts endocrine sensitivity and better survival in ER-positive breast cancer. Scientific Reports, 2022, 12, 1972.	1.6	7
1032	Universal platform for the generation of thermostabilized GPCRs that crystallize in LCP. Nature Protocols, 2022, 17, 698-726.	5.5	5
1033	Slow conformational dynamics of the human A2A adenosine receptor are temporally ordered. Structure, 2022, 30, 329-337.e5.	1.6	17
1034	Potential of X-ray free-electron lasers for challenging targets in structure-based drug discovery. Drug Discovery Today: Technologies, 2021, 39, 101-110.	4.0	6
1035	Odorant G protein-coupled receptors as potential therapeutic targets for adult diffuse gliomas: a systematic analysis and review. BMB Reports, 2021, , .	1.1	1
1037	Triple-color single-molecule imaging for analysis of the role of receptor oligomers in signal transduction. Biophysics and Physicobiology, 2022, 19, e190007_1-e190007_9.	0.5	0
1038	Modulatory effects of G proteinâ€“coupled receptor in hepatocellular carcinoma. , 2022, , 81-95.		0
1039	Covalent cannabinoid receptor ligands â€“ structural insight and selectivity challenges. RSC Medicinal Chemistry, 0, , .	1.7	0
1040	GPR125 positively regulates osteoclastogenesis potentially through AKT-NF-ÎºB and MAPK signaling pathways. International Journal of Biological Sciences, 2022, 18, 2392-2405.	2.6	7
1041	Structure and chemistry of enzymatic active sites that play a role in the switch and conformation mechanism. Advances in Protein Chemistry and Structural Biology, 2022, 130, 59-83.	1.0	5
1042	Small Molecule Compounds of Natural Origin Target Cellular Receptors to Inhibit Cancer Development and Progression. International Journal of Molecular Sciences, 2022, 23, 2672.	1.8	8
1043	Structure-Based Design of a Chemical Probe Set for the 5-HT_{5A} Serotonin Receptor. Journal of Medicinal Chemistry, 2022, 65, 4201-4217.	2.9	17
1044	GÎ±12 and GÎ±13: Versatility in Physiology and Pathology. Frontiers in Cell and Developmental Biology, 2022, 10, 809425.	1.8	6
1045	Trafficking-defective mutant PROKR2 cycles between endoplasmic reticulum and Golgi to attenuate endoplasmic reticulum stress. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	2
1046	The Binding Mode to Orthosteric Sites and/or Exosites Underlies the Therapeutic Potential of Drugs Targeting Cannabinoid CB2 Receptors. Frontiers in Pharmacology, 2022, 13, 852631.	1.6	2

#	Article	IF	Citations
1047	Local modulation by presynaptic receptors controls neuronal communication and behaviour. Nature Reviews Neuroscience, 2022, 23, 191-203.	4.9	26
1048	Machine Learning analysis of high-grade serous ovarian cancer proteomic dataset reveals novel candidate biomarkers. Scientific Reports, 2022, 12, 3041.	1.6	9
1049	Merging Late-Stage Diversification with Solid-Phase Peptide Synthesis Enabled by High-Throughput On-Resin Reaction Screening. ACS Catalysis, 2022, 12, 3201-3210.	5.5	4
1050	The Mouse Cytomegalovirus G Protein-Coupled Receptor Homolog, M33, Coordinates Key Features of In Vivo Infection via Distinct Components of Its Signaling Repertoire. Journal of Virology, 2022, 96, JVI0186721.	1.5	3
1051	Biased Î²-Agonists Favoring Gs over Î²-Arrestin for Individualized Treatment of Obstructive Lung Disease. Journal of Personalized Medicine, 2022, 12, 331.	1.1	6
1052	An insight into prodrug strategy for the treatment of Alzheimerâ€™s disease. Medicinal Chemistry Research, 2022, 31, 383-399.	1.1	7
1053	Identification of Dysregulated Expression of G Protein Coupled Receptors in Endocrine Tumors by Bioinformatics Analysis: Potential Drug Targets?. Cells, 2022, 11, 703.	1.8	0
1055	Pepducin-mediated G Protein-Coupled Receptor Signaling in the Cardiovascular System. Journal of Cardiovascular Pharmacology, 2022, 80, 378-385.	0.8	3
1056	Design, Synthesis and Biological Evaluation of Neogliptin, a Novel 2-Azabicyclo[2.2.1]heptane-Based Inhibitor of Dipeptidyl Peptidase-4 (DPP-4). Pharmaceuticals, 2022, 15, 273.	1.7	4
1057	Free Fatty Acid Receptors (FFARs) in Adipose: Physiological Role and Therapeutic Outlook. Cells, 2022, 11, 750.	1.8	34
1059	Design, Synthesis and 5-HT1A Binding Affinity of N-(3-(4-(2-Methoxyphenyl)piperazin-1-yl)propyl)tricyclo[3.3.1.13,7]decan-1-amine and N-(3-(4-(2-Methoxyphenyl)piperazin-1-yl)propyl)-3,5-dimethyl-tricylo[3.3.1.13,7]decan-1-amine. MolBank, 2022, 2022, M1353.	0.2	0
1062	The Activation of GPR27 Increases Cytosolic L-Lactate in 3T3 Embryonic Cells and Astrocytes. Cells, 2022, 11, 1009.	1.8	6
1063	MD Simulations Revealing Special Activation Mechanism of Cannabinoid Receptor 1. Frontiers in Molecular Biosciences, 2022, 9, 860035.	1.6	4
1064	Receptor-associated independent cAMP nanodomains mediate spatiotemporal specificity of GPCR signaling. Cell, 2022, 185, 1130-1142.e11.	13.5	85
1065	Drug-Targeted Genomes: Mutability of Ion Channels and GPCRs. Biomedicines, 2022, 10, 594.	1.4	6
1066	A Review of Neuroreceptors for Clinical and Experimental Neuropharmacology in Central Nervous System Disorders. Current Reviews in Clinical and Experimental Pharmacology, 2023, 18, 192-241.	0.4	2
1067	GÎ±13 loss in Kras/Tp53 mouse model of pancreatic tumorigenesis promotes tumors susceptible to rapamycin. Cell Reports, 2022, 38, 110441.	2.9	0
1068	Sodium or Not Sodium: Should Its Presence Affect the Accuracy of Pose Prediction in Docking GPCR Antagonists?. Pharmaceuticals, 2022, 15, 346.	1.7	8

#	Article	IF	Citations
1069	Post-Translational Modifications of G Proteinâ€“Coupled Receptors Revealed by Proteomics and Structural Biology. Frontiers in Chemistry, 2022, 10, 843502.	1.8	8
1070	Effector membrane translocation biosensors reveal G protein and Î²arrestin coupling profiles of 100 therapeutically relevant GPCRs. ELife, 2022, 11, .	2.8	101
1071	Leveraging GPCR signaling in thermogenic fat to counteract metabolic diseases. Molecular Metabolism, 2022, 60, 101474.	3.0	2
1073	Short-Chain Fatty Acid Receptors and Cardiovascular Function. International Journal of Molecular Sciences, 2022, 23, 3303.	1.8	44
1074	AFSE: towards improving model generalization of deep graph learning of ligand bioactivities targeting GPCR proteins. Briefings in Bioinformatics, 2022, 23, .	3.2	2
1075	Lysophosphatidic Acid Receptor 5 (LPA5) Knockout Ameliorates the Neuroinflammatory Response In Vivo and Modifies the Inflammatory and Metabolic Landscape of Primary Microglia In Vitro. Cells, 2022, 11, 1071.	1.8	4
1076	The Impact of the Secondary Binding Pocket on the Pharmacology of Class A GPCRs. Frontiers in Pharmacology, 2022, 13, 847788.	1.6	10
1077	Class A and C GPCR dimers in neurodegenerative diseases. Current Neuropharmacology, 2022, 20, .	1.4	2
1078	Heterotrimeric G Protein Î±-Subunits - Structures, Peptide-Derived Inhibitors, and Mechanisms. Current Medicinal Chemistry, 2022, 29, 6359-6378.	1.2	7
1079	Identification of a conserved chemokine receptor motif that enables ligand discrimination. Science Signaling, 2022, 15, eabg7042.	1.6	2
1081	Fluorescence Imaging of Neural Activity, Neurochemical Dynamics, and Drug-Specific Receptor Conformation with Genetically Encoded Sensors. Annual Review of Neuroscience, 2022, 45, 273-294.	5.0	32
1082	Quantitative live-cell imaging of GPCR downstream signaling dynamics. Biochemical Journal, 2022, 479, 883-900.	1.7	4
1083	Prediction and Identification of GPCRs Targeting for Drug Repurposing in Osteosarcoma. Frontiers in Oncology, 2022, 12, 828849.	1.3	0
1084	Optical control of Class A G protein-coupled receptors with photoswitchable ligands. Current Opinion in Pharmacology, 2022, 63, 102192.	1.7	15
1085	Dynamics and mechanistic underpinnings to pharmacology of class A GPCRs: an NMR perspective. American Journal of Physiology - Cell Physiology, 2022, 322, C739-C753.	2.1	9
1086	AÎ² Assemblies Promote Amyloidogenic Processing of APP and Intracellular Accumulation of AÎ²42 Through Go/GÎ²Î³ Signaling. Frontiers in Cell and Developmental Biology, 2022, 10, 852738.	1.8	7
1087	Effectiveness of Artificial Intelligence for Personalized Medicine in Neoplasms: A Systematic Review. BioMed Research International, 2022, 2022, 1-34.	0.9	13
1088	Phenotypic evaluation of constitutive GPCR/G-protein signaling in zebrafish embryos and larvae. Biochemical and Biophysical Research Communications, 2022, 602, 70-76.	1.0	0

#	Article	IF	Citations
1089	Analysis of the interaction between <scp> A ₁ R </scp> and <scp> A _{2A} R </scp> proteins in living cells based on <scp>FRET</scp> imaging and batch processing method. Journal of Biophotonics, 2022, , e202200056.	1.1	1
1090	Distribution and the evolutionary history of G-protein components in plant and algal lineages. Plant Physiology, 2022, 189, 1519-1535.	2.3	9
1091	The role of the lipid environment in the activity of G protein coupled receptors. Biophysical Chemistry, 2022, 285, 106794.	1.5	23
1092	Transfer learning with molecular graph convolutional networks for accurate modeling and representation of bioactivities of ligands targeting GPCRs without sufficient data. Computational Biology and Chemistry, 2022, 98, 107664.	1.1	4
1093	Leveraging nonstructural data to predict structures and affinities of proteinâ€“ligand complexes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	17
1094	Contribution of G-Protein Î±-Subunits to Analgesia, Hyperalgesia, and Hyperalgesic Priming Induced by Subanalgesic and Analgesic Doses of Fentanyl and Morphine. Journal of Neuroscience, 2022, 42, 1196-1210.	1.7	5
1096	GPCRs Are Optimal Regulators of Complex Biological Systems and Orchestrate the Interface between Health and Disease. International Journal of Molecular Sciences, 2021, 22, 13387.	1.8	5
1097	In Vitro and In Silico Characterization of Kurarinone as a Dopamine D_{1A} Receptor Antagonist and D_{2L} and D₄ Receptor Agonist. ACS Omega, 2021, 6, 33443-33453.	1.6	3
1098	Disclosing incoherent sparse and low-rank patterns inside homologous GPCR tasks for better modelling of ligand bioactivities. Frontiers of Computer Science, 2022, 16, .	1.6	1
1100	Broadâ€spectrum prodrugs with antiâ€SARSâ€CoVâ€2 activities: Strategies, benefits, and challenges. Journal of Medical Virology, 2022, 94, 1373-1390.	2.5	35
1101	GPR87 Promotes Metastasis through the AKT-eNOS-NO Axis in Lung Adenocarcinoma. Cancers, 2022, 14, 19.	1.7	3
1103	Constitutive, Basal, and Î²-Alanine-Mediated Activation of the Human Mas-Related G Protein-Coupled Receptor D Induces Release of the Inflammatory Cytokine IL-6 and Is Dependent on NF-ÎºB Signaling. International Journal of Molecular Sciences, 2021, 22, 13254.	1.8	10
1104	Odorant G protein-coupled receptors as potential therapeutic targets for adult diffuse gliomas: a systematic analysis and review. BMB Reports, 2021, 54, 601-607.	1.1	7
1105	The Structural Basis of Peptide Binding at Class A G Protein-Coupled Receptors. Molecules, 2022, 27, 210.	1.7	10
1106	Allosteric ligands control the activation of a class C GPCR heterodimer by acting at the transmembrane interface. ELife, 2021, 10, .	2.8	14
1107	Transcriptomic evidence for dense peptidergic networks within forebrains of four widely divergent tetrapods. Current Opinion in Neurobiology, 2021, 71, 100-109.	2.0	8
1109	The Many Faces of G Protein-Coupled Receptor 143, an Atypical Intracellular Receptor. Frontiers in Molecular Biosciences, 2022, 9, 873777.	1.6	3
1110	Research Status of the Orphan G Protein Coupled Receptor 158 and Future Perspectives. Cells, 2022, 11, 1334.	1.8	6

#	Article	IF	Citations
1111	Physicochemical Insights on Terahertz Wave Diminished Side Effects of Drugs from Slow Dissociation. ACS Nano, 2022, 16, 8419-8426.	7.3	14
1112	Local and substrate-specific S-palmitoylation determines subcellular localization of GÎ±o. Nature Communications, 2022, 13, 2072.	5.8	19
1113	G Protein-coupled Receptor (GPCR) Reconstitution and Labeling for Solution Nuclear Magnetic Resonance (NMR) Studies of the Structural Basis of Transmembrane Signaling. Molecules, 2022, 27, 2658.	1.7	8
1114	A Scintillation Proximity Assay for Real-Time Kinetic Analysis of Chemokineâ€“Chemokine Receptor Interactions. Cells, 2022, 11, 1317.	1.8	1
1115	Role of the Synergistic Interactions of Environmental Pollutants in the Development of Cancer. GeoHealth, 2022, 6, e2021GH000552.	1.9	16
1126	G protein-coupled receptor kinase type 2 and Î²-arrestin2: Key players in immune cell functions and inflammation. Cellular Signalling, 2022, 95, 110337.	1.7	10
1127	The mechanism for ligand activation of the GPCRâ€“G protein complex. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2110085119.	3.3	25
1128	Actions of Parathyroid Hormone Ligand Analogs in Humanized PTH1R Knock-In Mice. Endocrinology, 2022, , .	1.4	3
1129	Recent Advances in Dopamine D3 Receptor Heterodimers: Focus on Dopamine D3 and D1 Receptorâ€“Receptor Interaction and Striatal Function. Current Topics in Behavioral Neurosciences, 2022, , 1.	0.8	1
1130	PRECOGx: exploring GPCR signaling mechanisms with deep protein representations. Nucleic Acids Research, 2022, 50, W598-W610.	6.5	6
1131	Structural Insights into the Intrinsically Disordered GPCR C-Terminal Region, Major Actor in Arrestin-GPCR Interaction. Biomolecules, 2022, 12, 617.	1.8	7
1132	The tRNA-Derived Fragment tRF-24-V29K9UV3IU Functions as a miRNA-like RNA to Prevent Gastric Cancer Progression by Inhibiting GPR78 Expression. Journal of Oncology, 2022, 2022, 1-17.	0.6	8
1133	G proteinâ€“coupled receptor 21 in macrophages: An in vitro study. European Journal of Pharmacology, 2022, 926, 175018.	1.7	3
1134	Orphan receptors in prostate cancer. Prostate, 2022, 82, 1016-1024.	1.2	1
1135	Discovery of Environment-Sensitive Fluorescent Ligands of Î²-Adrenergic Receptors for Cell Imaging and NanoBRET Assay. Analytical Chemistry, 2022, 94, 7021-7028.	3.2	4
1136	Role of Dipeptidyl Peptidase 4 Inhibitors in Antidiabetic Treatment. Molecules, 2022, 27, 3055.	1.7	22
1137	Activation and allosteric regulation of the orphan GPR88-Gi1 signaling complex. Nature Communications, 2022, 13, 2375.	5.8	14
1138	Orphan GPR146: an alternative therapeutic pathway to achieve cholesterol homeostasis?. Trends in Endocrinology and Metabolism, 2022, , .	3.1	4

#	Article	IF	Citations
1139	Engineered Allosteric Regulation of Protein Function. Journal of Molecular Biology, 2022, 434, 167620.	2.0	5
1140	Multiâ€state modeling of Gâ€protein coupled receptors at experimental accuracy. Proteins: Structure, Function and Bioinformatics, 2022, 90, 1873-1885.	1.5	84
1141	Ketamine treatment for refractory anxiety: A systematic review. British Journal of Clinical Pharmacology, 2022, 88, 4412-4426.	1.1	17
1142	Super-conserved receptors expressed in the brain: biology and medicinal chemistry efforts. Future Medicinal Chemistry, 2022, 14, 899-913.	1.1	3
1143	The orphan receptor GPR68 is expressed in the hypothalamus and is involved in the regulation of feeding. Neuroscience Letters, 2022, 781, 136660.	1.0	3
1144	Synthesis of Coumarin Derivatives: A New Class of Coumarin-Based G Protein-Coupled Receptor Activators and Inhibitors. Polymers, 2022, 14, 2021.	2.0	4
1145	The Impact of Membrane Protein Diffusion on GPCR Signaling. Cells, 2022, 11, 1660.	1.8	1
1146	A neuropsin-based optogenetic tool for precise control of Gq signaling. Science China Life Sciences, 2022, 65, 1271-1284.	2.3	8
1147	Structure-guided optimization of light-activated chimeric G-protein-coupled receptors. Structure, 2022, 30, 1075-1087.e4.	1.6	9
1149	Understanding How Physical Exercise Improves Alzheimerâ€™s Disease: Cholinergic and Monoaminergic Systems. Frontiers in Aging Neuroscience, 2022, 14, .	1.7	6
1150	Prediction of GPCR activity using machine learning. Computational and Structural Biotechnology Journal, 2022, 20, 2564-2573.	1.9	16
1151	Stereochemical diversity as a source of discovery in chemical biology. Current Research in Chemical Biology, 2022, 2, 100028.	1.4	21
1152	Exploration of novel ligands to target C-C Motif Chemokine Receptor 2 (CCR2) as a promising pharmacological treatment against traumatic brain injury. Biomedicine and Pharmacotherapy, 2022, 151, 113155.	2.5	4
1153	Superconserved receptors expressed in the brain: Expression, function, motifs and evolution of an orphan receptor family. , 2022, 240, 108217.		4
1154	Functional expression of opioid receptors and other human GPCRs in yeast engineered to produce human sterols. Nature Communications, 2022, 13, .	5.8	13
1155	Yeast-based directed-evolution for high-throughput structural stabilization of G protein-coupled receptors (GPCRs). Scientific Reports, 2022, 12, .	1.6	2
1156	Potential Therapeutic Targeting Neurotransmitter Receptors in Diabetes. Frontiers in Endocrinology, 2022, 13, .	1.5	1
1157	The GPR35 expression pattern is associated with overall survival in male patients with colorectal cancer. Pharmacological Reports, 2022, 74, 709-717.	1.5	4

#	Article	IF	Citations
1158	Orphan G-Protein Coupled Receptor GPRC5B Is Critical for Lymphatic Development. International Journal of Molecular Sciences, 2022, 23, 5712.	1.8	5
1159	Epstein-Barr Virus-Encoded BILF1 Orthologues From Porcine Lymphotropic Herpesviruses Display Common Molecular Functionality. Frontiers in Endocrinology, 2022, 13, .	1.5	1
1161	Graphs of Hydrogen-Bond Networks to Dissect Protein Conformational Dynamics. Journal of Physical Chemistry B, 2022, 126, 3973-3984.	1.2	8
1162	Accelerating GPCR Drug Discovery With Conformation-Stabilizing VHHs. Frontiers in Molecular Biosciences, 2022, 9, .	1.6	17
1163	Molecular mechanism of allosteric modulation for the cannabinoid receptor CB1. Nature Chemical Biology, 2022, 18, 831-840.	3.9	38
1164	Nucleic Acid Aptamers Emerging as Modulators of G-Protein-Coupled Receptors: Challenge to Difficult Cell Surface Proteins. Cells, 2022, 11, 1825.	1.8	2
1165	GPR108 is required for gambogic acid inhibiting NF-ÎºB signaling in cancer. Pharmacological Research, 2022, 182, 106279.	3.1	4
1166	The orphan GPR50 receptor interacting with TÎ²RI induces G1/S-phase cell cycle arrest via Smad3-p27/p21 in BRL-3A cells. Biochemical Pharmacology, 2022, 202, 115117.	2.0	2
1167	Evaluation of the anti-diabetic activity of sea buckthorn pulp oils prepared with different extraction methods in human islet EndoC-betaH1 cells. NFS Journal, 2022, 27, 54-66.	1.9	7
1168	Effect of Ligands and Transducers on the Neurotensin Receptor 1 Conformational Ensemble. Journal of the American Chemical Society, 2022, 144, 10241-10250.	6.6	13
1169	Pharmacology of Antagonism of GPCR. Biological and Pharmaceutical Bulletin, 2022, 45, 669-674.	0.6	7
1171	Small Activating RNA Modulation of the G Proteinâ€Coupled Receptor for Cancer Treatment. Advanced Science, 2022, 9, .	5.6	10
1172	Mass Spectrometry Approaches Empowering Neuropeptide Discovery and Therapeutics. Pharmacological Reviews, 2022, 74, 662-679.	7.1	5
1173	TGR5 agonists induce peripheral and central hypersensitivity to bladder distension. Scientific Reports, 2022, 12, .	1.6	2
1174	Development of OPLS-AA/M Parameters for Simulations of G Protein-Coupled Receptors and Other Membrane Proteins. Journal of Chemical Theory and Computation, 2022, 18, 4482-4489.	2.3	9
1175	Alterations of Serum Magnesium Concentration in Animal Models of Seizures and Epilepsyâ€"The Effects of Treatment with a GPR39 Agonist and Knockout of the Gpr39 Gene. Cells, 2022, 11, 1987.	1.8	5
1176	Viral G Proteinâ€"Coupled Receptors Encoded by Î²- and Î³-Herpesviruses. Annual Review of Virology, 2022, 9, 329-351.	3.0	11
1177	Global analyses of <scp>mRNA</scp> expression in human sensory neurons reveal <scp>eIF5A</scp> as a conserved target for inflammatory pain. FASEB Journal, 2022, 36, .	0.2	6

#	Article	IF	Citations
1178	Activation and Speciation Mechanisms in Class A GPCRs. Journal of Molecular Biology, 2022, 434, 167690.	2.0	4
1179	Intrinsically disordered proteins and proteins with intrinsically disordered regions in neurodegenerative diseases. Biophysical Reviews, 2022, 14, 679-707.	1.5	20
1181	Targeting TMEM88 as an Attractive Therapeutic Strategy in Malignant Tumors. Frontiers in Oncology, 0, 12, .	1.3	3
1182	Signal Transduction and Gene Regulation in the Endothelium. Cold Spring Harbor Perspectives in Medicine, 0, , a041153.	2.9	1
1183	Emerging structural insights into GPCRâ€“Î²-arrestin interaction and functional outcomes. Current Opinion in Structural Biology, 2022, 75, 102406.	2.6	25
1184	Suppression of tumor progression by thioredoxin-interacting protein-dependent adenosine 2B receptor degradation in a PLAG-treated Lewis lung carcinoma-1 model of nonâ€“small cell lung cancer. Neoplasia, 2022, 31, 100815.	2.3	3
1186	New Chemical Biology Tools for the Histamine Receptor Family. Current Topics in Behavioral Neurosciences, 2022, , .	0.8	0
1188	Determination of the Nanoscale Electrical Properties of Olfactory Receptor hOR1A1: Towards the Development of Highly Sensitive Capacitance-Operated Odorant Biosensors. SSRN Electronic Journal, 0, , .	0.4	0
1189	In silico binding affinity prediction for metabotropic glutamate receptors using both endpoint free energy methods and a machine learning-based scoring function. Physical Chemistry Chemical Physics, 2022, 24, 18291-18305.	1.3	1
1190	Cardiovascular GPCR regulation by regulator of G protein signaling proteins. Progress in Molecular Biology and Translational Science, 2022, , 145-166.	0.9	3
1191	A GPCR-based yeast biosensor for biomedical, biotechnological, and point-of-use cannabinoid determination. Nature Communications, 2022, 13, .	5.8	17
1192	The Location of Missense Variants in the Human GIP Gene Is Indicative for Natural Selection. Frontiers in Endocrinology, 0, 13, .	1.5	1
1193	Essential Dynamics Ensemble Docking for Structure-Based GPCR Drug Discovery. Frontiers in Molecular Biosciences, 0, 9, .	1.6	2
1194	Pathophysiological impact of the adhesion G protein-coupled receptor family. American Journal of Physiology - Cell Physiology, 2022, 323, C640-C647.	2.1	8
1195	Allosteric modulation of GPCRs: From structural insights to in silico drug discovery. , 2022, 237, 108242.		15
1196	GPR87 promotes renal tubulointerstitial fibrosis by accelerating glycolysis and mitochondrial injury. Free Radical Biology and Medicine, 2022, 189, 58-70.	1.3	11
1197	Probing GPCR Dimerization Using Peptides. Frontiers in Endocrinology, 0, 13, .	1.5	1
1198	Conformational selection guides Î²-arrestin recruitment at a biased G proteinâ€“coupled receptor. Science, 2022, 377, 222-228.	6.0	16

#	Article	IF	Citations
1199	A Novel Based-Network Strategy to Identify Phytochemicals from Radix Salviae Miltiorrhizae (Danshen) for Treating Alzheimerâ€™s Disease. Molecules, 2022, 27, 4463.	1.7	3
1202	Neuropeptides in Cancer: Friend and Foe?. Advanced Biology, 2022, 6, .	1.4	10
1203	AlphaFold2 versus experimental structures: evaluation on G protein-coupled receptors. Acta Pharmacologica Sinica, 2023, 44, 1-7.	2.8	39
1204	Shining more light on G protein signalling modules: a novel optogenetic tool for Gq activation. Science China Life Sciences, 0, , .	2.3	0
1205	Recent progress in assays for GPCR drug discovery. American Journal of Physiology - Cell Physiology, 2022, 323, C583-C594.	2.1	20
1206	Identification of Novel Dopamine D2 Receptor Ligandsâ€”A Combined In Silico/In Vitro Approach. Molecules, 2022, 27, 4435.	1.7	3
1207	CMKLR1 senses chemerin/resolvin E1 to control adipose thermogenesis and modulate metabolic homeostasis. Fundamental Research, 2022, , .	1.6	1
1208	Design, Synthesis, and Biological Activity of New CB2 Receptor Ligands: from Orthosteric and Allosteric Modulators to Dualsteric/Bitopic Ligands. Journal of Medicinal Chemistry, 2022, 65, 9918-9938.	2.9	15
1209	Selective activation of GÎ±ob by an adenosine A1 receptor agonist elicits analgesia without cardiorespiratory depression. Nature Communications, 2022, 13, .	5.8	23
1210	Diversity and specificity in location-based signaling outputs of neuronal GPCRs. Current Opinion in Neurobiology, 2022, 76, 102601.	2.0	4
1211	Photochromic Fentanyl Derivatives for Controlled Î¼â€Opioid Receptor Activation. Chemistry - A European Journal, 2022, 28, .	1.7	6
1212	Fusion protein strategies for cryo-EM study of G protein-coupled receptors. Nature Communications, 2022, 13, .	5.8	27
1213	Tools for adapting to a complex habitat: G-protein coupled receptors in Trichoderma. Progress in Molecular Biology and Translational Science, 2022, , 65-97.	0.9	3
1214	Drug repurposing: a systematic review on root causes, barriers and facilitators. BMC Health Services Research, 2022, 22, .	0.9	39
1215	GPCR genes as a predictor of glioma severity and clinical outcome. Journal of International Medical Research, 2022, 50, 030006052211139.	0.4	1
1216	Evaluation of Phage Display Biopanning Strategies for the Selection of Anti-Cell Surface Receptor Antibodies. International Journal of Molecular Sciences, 2022, 23, 8470.	1.8	7
1217	ADGRL1 haploinsufficiency causes a variable spectrum of neurodevelopmental disorders in humans and alters synaptic activity and behavior in a mouse model. American Journal of Human Genetics, 2022, 109, 1436-1457.	2.6	14
1218	Functional modulation of PTH1R activation and signaling by RAMP2. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	12

#	Article	IF	Citations
1219	Compendium of proteins containing segments that exhibit <scp>zeroâ€tolerance</scp> to amino acid variation in humans. Protein Science, 2022, 31, .	3.1	0
1220	<scp>CHARMMâ€GUI</scp>highâ€throughput simulator for efficient evaluation of proteinâ€“ligand interactions with different force fields. Protein Science, 2022, 31, .	3.1	10
1221	A methodology for creating thermostabilized mutants of Gâ€protein coupled receptors by combining statistical thermodynamics and evolutionary molecular engineering. Protein Science, 2022, 31, .	3.1	3
1222	Dimerization of GPCRs: Novel insight into the role of FLNA and SSAs regulating SST2 and SST5 homo- and hetero-dimer formation. Frontiers in Endocrinology, 0, 13, .	1.5	0
1223	Hotspot Identification and Drug Design of Proteinâ€“Protein Interaction Modulators Using the Fragment Molecular Orbital Method. Journal of Chemical Information and Modeling, 2022, 62, 3784-3799.	2.5	10
1224	A machine learning model for classifying G-protein-coupled receptors as agonists or antagonists. BMC Bioinformatics, 2022, 23, .	1.2	9
1225	Targeting trafficking as a therapeutic avenue for misfolded GPCRs leading to endocrine diseases. Frontiers in Endocrinology, 0, 13, .	1.5	7
1227	Activation of cAMP Signaling in Response to Î±-Phellandrene Promotes Vascular Endothelial Growth Factor Levels and Proliferation in Human Dermal Papilla Cells. International Journal of Molecular Sciences, 2022, 23, 8959.	1.8	6
1228	Hear the sounds: the role of G protein-coupled receptors in the cochlea. American Journal of Physiology - Cell Physiology, 2022, 323, C1088-C1099.	2.1	6
1229	GPCR structural characterization by NMR spectroscopy in solution. Acta Biochimica Et Biophysica Sinica, 2022, 54, 1207-1212.	0.9	2
1230	Structural insights from G-protein-coupled receptor complexes enable the rational engineering of improved light-activated designer receptors. Structure, 2022, 30, 1043-1045.	1.6	0
1231	Phosphorylation of RGS regulates MAP kinase localization and promotes completion of cytokinesis. Life Science Alliance, 2022, 5, e202101245.	1.3	1
1232	Exploring pharmacological inhibition of G _{q/11} as an analgesic strategy. British Journal of Pharmacology, 0, , .	2.7	6
1233	Combined docking and machine learning identify key molecular determinants of ligand pharmacological activity on Î²2 adrenoceptor. Pharmacology Research and Perspectives, 2022, 10, .	1.1	5
1234	Finding the Perfect Fit: Conformational Biosensors to Determine the Efficacy of GPCR Ligands. ACS Pharmacology and Translational Science, 0, , .	2.5	3
1235	Allosteric modulation of GPCR-induced Î²-arrestin trafficking and signaling by a synthetic intrabody. Nature Communications, 2022, 13, .	5.8	18
1236	Drug metabolism. , 2023, , 795-805.		0
1239	L-DOPA and Droxidopa: From Force Field Development to Molecular Docking into Human Î²2-Adrenergic Receptor. Life, 2022, 12, 1393.	1.1	1

#	Article	IF	Citations
1240	Computational and experimental approaches to probe GPCR activation and signaling. Progress in Molecular Biology and Translational Science, 2022, , 1-36.	0.9	0
1241	Advances in the molecular level understanding of G-protein coupled receptor. Progress in Molecular Biology and Translational Science, 2023, , 1-13.	0.9	0
1242	Basic Concepts of Design of Peptide-Based Therapeutics. AAPS Advances in the Pharmaceutical Sciences Series, 2022, , 1-50.	0.2	1
1243	Solid-state NMR Shows That the Structure and Dynamics of Specific Residues in the Membrane Receptor CXCR1 Are Altered by Interactions with Specific Residues in Its Agonist IL-8. New Developments in NMR, 2022, , 530-562.	0.1	0
1244	The drug-discovery process. , 2022, , 383-422.		0
1245	Drug targets and drug-target molecules. , 2022, , 97-149.		0
1246	G-Protein Coupled Receptors. , 2022, , .		0
1247	Asymmetric activation of class C GPCRs. Progress in Molecular Biology and Translational Science, 2022, , .	0.9	1
1248	Appreciating the potential for GPCR crosstalk with ion channels. Progress in Molecular Biology and Translational Science, 2022, , .	0.9	1
1249	GPR92 activation in islet macrophages controls Î² cell function in a diet-induced obesity model. Journal of Clinical Investigation, 0, , .	3.9	2
1250	Therapeutic and prognostic potential of GPCRs in prostate cancer from multi-omics landscape. Frontiers in Pharmacology, 0, 13, .	1.6	2
1251	2-(Fluoromethoxy)-4â€²-(S-methanesulfonimidoyl)-1,1â€²-biphenyl (UCM-1306), an Orally Bioavailable Positive Allosteric Modulator of the Human Dopamine D₁ Receptor for Parkinsonâ€™s Disease. Journal of Medicinal Chemistry, 2022, 65, 12256-12272.	2.9	2
1254	GASP1 enhances malignant phenotypes of breast cancer cells and decreases their response to paclitaxel by forming a vicious cycle with IGF1/IGF1R signaling pathway. Cell Death and Disease, 2022, 13, .	2.7	1
1256	Functional rewiring of G protein-coupled receptor signaling in human labor. Cell Reports, 2022, 40, 111318.	2.9	2
1257	Fragment-Based Drug Discovery against Mycobacteria: The Success and Challenges. International Journal of Molecular Sciences, 2022, 23, 10669.	1.8	8
1258	Cell-trafficking impairment in disease-associated LPA6 missense mutants and a potential pharmacoperone therapy for autosomal recessive woolly hair/hypotrichosis. Human Molecular Genetics, 0, , .	1.4	2
1259	Advancements in G proteinâ€coupled receptor biosensors to study GPCRâ€G protein coupling. British Journal of Pharmacology, 2023, 180, 1433-1443.	2.7	11
1261	Structure-Based Discovery of Negative Allosteric Modulators of the Metabotropic Glutamate Receptor 5. ACS Chemical Biology, 2022, 17, 2744-2752.	1.6	5

#	Article	IF	Citations
1264	Key Residues in Î´ Opioid Receptor Allostery Explored by the Elastic Network Model and the Complex Network Model Combined with the Perturbation Method. Journal of Chemical Information and Modeling, 2022, 62, 6727-6738.	2.5	4
1265	HIV-1 gp120-CXCR4 recognition probed with synthetic nanomolar affinity D-peptides containing fragments of gp120 V3 loop. European Journal of Medicinal Chemistry, 2022, , 114797.	2.6	1
1267	Emerging principles of cytokine pharmacology and therapeutics. Nature Reviews Drug Discovery, 2023, 22, 21-37.	21.5	41
1272	Mechanistic Understanding of the Palmitoylation of Go Protein in the Allosteric Regulation of Adhesion Receptor GPR97. Pharmaceutics, 2022, 14, 1856.	2.0	9
1273	A Method for Selective <scp> ¹⁹ Fâ€Labeling </scp> Absent of Probe Sequestration () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.1	2
1276	The Chemerin Receptor CMKLR1 Requires Fullâ€Length Chemerin for High Affinity in Contrast to GPR1 as Demonstrated by a New Nanoluciferaseâ€Based Binding Assay. ChemMedChem, 2022, 17, .	1.6	3
1277	A methodology for creating mutants of Gâ€protein coupled receptors stabilized in active state by combining statistical thermodynamics and evolutionary molecular engineering. Protein Science, 2022, 31, .	3.1	5
1278	G proteinâ€“biased GPR3 signaling ameliorates amyloid pathology in a preclinical Alzheimerâ€™s disease mouse model. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	9
1279	Hydrogen-bond networks for proton couplings in G-Protein coupled receptors. Frontiers in Physics, 0, 10, .	1.0	1
1280	Circulating pyruvate is a potent prognostic marker for critical COVID-19 outcomes. Frontiers in Immunology, 0, 13, .	2.2	11
1283	GRK2 inhibitors, paroxetine and CCG258747, attenuate IgE-mediated anaphylaxis but activate mast cells via MRGPRX2 and MRGPRB2. Frontiers in Immunology, 0, 13, .	2.2	3
1284	Conservation of Allosteric Ligand Binding Sites in G-Protein Coupled Receptors. Journal of Chemical Information and Modeling, 2022, 62, 4937-4954.	2.5	12
1285	Targeting GPCRs to treat cardiac fibrosis. Frontiers in Cardiovascular Medicine, 0, 9, .	1.1	3
1286	Restoration of the GTPase activity and cellular interactions of GÎ± _o mutants by Zn ²⁺ in GNAO1 encephalopathy models. Science Advances, 2022, 8, .	4.7	18
1287	A PKA inhibitor motif within SMOOTHENED controls Hedgehog signal transduction. Nature Structural and Molecular Biology, 2022, 29, 990-999.	3.6	25
1288	Biased Signaling through G Protein-coupled Receptors. Yakugaku Zasshi, 2022, 142, 1091-1101.	0.0	0
1289	Determination of the nanoscale electrical properties of olfactory receptor hOR1A1 and their dependence on ligand binding: Towards the development of capacitance-operated odorant biosensors. Biosensors and Bioelectronics, 2022, 218, 114755.	5.3	0
1290	Exploration of interaction property between nonylphenol and G protein-coupled receptor 30 based on molecular simulation and biological experiments. Steroids, 2022, 188, 109114.	0.8	1

#	Article	IF	Citations
1291	Harnessing Immunologic Tools to Treat Gynecologic Disorders. Current Women's Health Reviews, 2023, 19, .	0.1	0
1292	Thyroid-Stimulating Hormone Receptor: the Role in the Development of Thyroid Pathology and Its Correction. Journal of Evolutionary Biochemistry and Physiology, 2022, 58, 1439-1454.	0.2	3
1293	A Chemical Biological Approach to Study G Protein-Coupled Receptors: Labeling the Adenosine A₁ Receptor Using an Electrophilic Covalent Probe. ACS Chemical Biology, 2022, 17, 3131-3139.	1.6	5
1294	How Arrestins and GRKs Regulate the Function of Long Chain Fatty Acid Receptors. International Journal of Molecular Sciences, 2022, 23, 12237.	1.8	1
1295	Biased signaling due to oligomerization of the G protein-coupled platelet-activating factor receptor. Nature Communications, 2022, 13, .	5.8	13
1297	Alcohol-Related Liver Disease: An Overview on Pathophysiology, Diagnosis and Therapeutic Perspectives. Biomedicines, 2022, 10, 2530.	1.4	6
1298	Towards Precision Oncology: The Role of Smoothened and Its Variants in Cancer. Journal of Personalized Medicine, 2022, 12, 1648.	1.1	0
1299	G protein-coupled receptors in cochlea: Potential therapeutic targets for hearing loss. Frontiers in Molecular Neuroscience, 0, 15, .	1.4	1
1300	Biophysical investigations of class A GPCRs. Biochimie, 2022, , .	1.3	1
1302	The Neurokinin-1 Receptor: Structure Dynamics and Signaling. , 2022, 1, 54-71.		4
1303	G-Protein Coupled Receptors in Human Sperm: An In Silico Approach to Identify Potential Modulatory Targets. Molecules, 2022, 27, 6503.	1.7	3
1304	Boron-containing compounds on neurons: Actions and potential applications for treating neurodegenerative diseases. Journal of Inorganic Biochemistry, 2023, 238, 112027.	1.5	8
1305	Screening of the siGPCR library in combination with cisplatin against lung cancers. Scientific Reports, 2022, 12, .	1.6	0
1306	Insertion of Nanoluc into the Extracellular Loops as a Complementary Method To Establish BRET-Based Binding Assays for GPCRs. ACS Pharmacology and Translational Science, 2022, 5, 1142-1155.	2.5	3
1307	Allosteric Modulation of Muscarinic Receptors by Cholesterol, Neurosteroids and Neuroactive Steroids. International Journal of Molecular Sciences, 2022, 23, 13075.	1.8	7
1308	A Single Point Mutation Blocks the Entrance of Ligands to the Cannabinoid CB₂ Receptor via the Lipid Bilayer. Journal of Chemical Information and Modeling, 2022, 62, 5771-5779.	2.5	3
1309	Mind the Gapâ€"Deciphering GPCR Pharmacology Using 3D Pharmacophores and Artificial Intelligence. Pharmaceuticals, 2022, 15, 1304.	1.7	3
1310	A single-cell transcriptomic inventory of murine smooth muscle cells. Developmental Cell, 2022, 57, 2426-2443.e6.	3.1	16

#	Article	IF	Citations
1311	Recent advances in microresonators and supporting instrumentation for electron paramagnetic resonance spectroscopy. Review of Scientific Instruments, 2022, 93, .	0.6	6
1312	Glycine Effect on the Expression Profile of Orphan Receptors GPR21, GPR26, GPR39, GPR82 and GPR6 in a Model of Inflammation in 3T3-L1 Cells. Life, 2022, 12, 1687.	1.1	3
1313	The Pursuit of Enzyme Activation: A Snapshot of the Gold Rush. Journal of Medicinal Chemistry, 2022, 65, 14289-14304.	2.9	2
1315	Olfactory Receptors as an Emerging Chemical Sensing Scaffold. Biochemistry, 2023, 62, 187-195.	1.2	4
1316	The apelin/APJ signaling system and cytoprotection: Role of its cross-talk with kappa opioid receptor. European Journal of Pharmacology, 2022, 936, 175353.	1.7	2
1317	Role of long non-coding RNAs in adipose tissue metabolism and associated pathologies. Biochemical Pharmacology, 2022, 206, 115305.	2.0	2
1318	Probing the structures of G protein-coupled receptors with mass spectrometry-based techniques. International Journal of Mass Spectrometry, 2023, 483, 116968.	0.7	1
1319	De novo transcriptome assembly and identification of G-Protein-Coupled-Receptors (GPCRs) in two species of monogenean parasites of fish. Parasite, 2022, 29, 51.	0.8	4
1320	The orphan G protein-coupled receptor, GPR139, is expressed in the hypothalamus and is involved in the regulation of body mass, blood glucose, and insulin. Neuroscience Letters, 2023, 792, 136955.	1.0	1
1321	G Protein-Coupled Receptors Regulated by Membrane Potential. International Journal of Molecular Sciences, 2022, 23, 13988.	1.8	6
1322	OR2AT4, an Ectopic Olfactory Receptor, Suppresses Oxidative Stress-Induced Senescence in Human Keratinocytes. Antioxidants, 2022, 11, 2180.	2.2	5
1323	Spectroscopic characterization and in vitro studies of biological activity of bradykinin derivatives. Scientific Reports, 2022, 12, .	1.6	2
1324	ERR-activated GPR35 promotes immune infiltration level of macrophages in gastric cancer tissues. Cell Death Discovery, 2022, 8, .	2.0	5
1325	Intracellular VHHs to monitor and modulate GPCR signaling. Frontiers in Endocrinology, 0, 13, .	1.5	4
1326	The Structure-property Relationships of GPCR-targeted Drugs Approved between 2011 and 2021. Current Medicinal Chemistry, 2023, 30, 3527-3549.	1.2	1
1328	Treatment of ADHD: Drugs, psychological therapies, devices, complementary and alternative methods as well as the trends in clinical trials. Frontiers in Pharmacology, 0, 13, .	1.6	11
1331	Intersection of the Orphan G Protein-Coupled Receptor, GPR19, with the Aging Process. International Journal of Molecular Sciences, 2022, 23, 13598.	1.8	2
1332	Endothelial cell-derived S1P promotes migration and stemness by binding with GPR63 in colorectal cancer. Pathology Research and Practice, 2022, 240, 154197.	1.0	2

#	Article	IF	Citations
1333	How Carvedilol activates Î²2-adrenoceptors. Nature Communications, 2022, 13, .	5.8	17
1334	Structure determination of inactive-state GPCRs with a universal nanobody. Nature Structural and Molecular Biology, 2022, 29, 1188-1195.	3.6	41
1336	GPCRdb in 2023: state-specific structure models using AlphaFold2 and new ligand resources. Nucleic Acids Research, 2023, 51, D395-D402.	6.5	60
1337	Multi-source transfer learning with Graph Neural Network for excellent modelling the bioactivities of ligands targeting orphan G protein-coupled receptors. Mathematical Biosciences and Engineering, 2022, 20, 2588-2608.	1.0	0
1338	Rational design, synthesis, and pharmacological evaluation of a cohort of novel beta-adrenergic receptors ligands enables an assessment of structure-activity relationships. European Journal of Medicinal Chemistry, 2023, 246, 114961.	2.6	0
1339	Pathological changes in GPCR signal organisation: Opportunities for targeted therapies for triple negative breast cancer. , 2023, 241, 108331.		2
1340	Hierarchical analysis of the target-based scoring function modification on the example of selected class A GPCRs. Physical Chemistry Chemical Physics, 0, , .	1.3	2
1341	The EDN1/EDNRA/Î²â€arrestin axis promotes colorectal cancer progression by regulating STAT3 phosphorylation. International Journal of Oncology, 2022, 62, .	1.4	2
1343	Cannabinoid Receptor 2-Centric Molecular Feedback Loop Drives Necroptosis in Diabetic Heart Injuries. Circulation, 2023, 147, 158-174.	1.6	10
1344	Activation of orphan receptor GPR132 induces cell differentiation in acute myeloid leukemia. Cell Death and Disease, 2022, 13, .	2.7	5
1345	Visualization of real-time receptor endocytosis in dopamine neurons enabled by NTSR1-Venus knock-in mice. Frontiers in Cellular Neuroscience, 0, 16, .	1.8	0
1347	NPFFR2 Contributes to the Malignancy of Hepatocellular Carcinoma Development by Activating RhoA/YAP Signaling. Cancers, 2022, 14, 5850.	1.7	4
1348	Exploring GPR109A Receptor Interaction with Hippuric Acid Using MD Simulations and CD Spectroscopy. International Journal of Molecular Sciences, 2022, 23, 14778.	1.8	0
1349	FFAR4 improves the senescence of tubular epithelial cells by AMPK/SirT3 signaling in acute kidney injury. Signal Transduction and Targeted Therapy, 2022, 7, .	7.1	16
1350	AT ₁ Râ€AT ₂ Râ€RXFP1 functional crosstalk: implications for the therapeutic targeting of fibrosis. British Journal of Pharmacology, 0, , .	2.7	0
1351	Middle-Down Mass Spectrometry Reveals Activity-Modifying Phosphorylation Barcode in a Class C G Protein-Coupled Receptor. Journal of the American Chemical Society, 2022, 144, 23104-23114.	6.6	7
1352	G protein-coupled receptor 151 regulates glucose metabolism and hepatic gluconeogenesis. Nature Communications, 2022, 13, .	5.8	1
1353	Global insights into the fine tuning of human A2AAR conformational dynamics in a ternary complex with an engineered G protein viewed by NMR. Cell Reports, 2022, 41, 111844.	2.9	5

#	Article	IF	Citations
1354	Clinical and Molecular Attributes and Evaluation of Pancreatic Cystic Neoplasm. Biochimica Et Biophysica Acta: Reviews on Cancer, 2023, 1878, 188851.	3.3	2
1355	The Nature of Functional Features of Different Classes of G-Protein-Coupled Receptors. Biology, 2022, 11, 1839.	1.3	2
1357	Chemokine-like receptor 1 deficiency impedes macrophage phenotypic transformation and cardiac repair after myocardial infarction. International Journal of Cardiology, 2023, 372, 6-14.	0.8	1
1358	Functional expression of oxytocin receptors in pulp-dentin complex. Biomaterials, 2023, 293, 121977.	5.7	4
1359	Lipid Analysis by Mass Spectrometry coupled with Laser Light. Analysis & Sensing, 2023, 3, .	1.1	2
1361	Elucidating the Interactome of G Protein-Coupled Receptors and Receptor Activity-Modifying Proteins. Pharmacological Reviews, 2023, 75, 1-34.	7.1	13
1362	Investigating the potential of GalR2 as a drug target for neuropathic pain. Neuropeptides, 2023, 98, 102311.	0.9	1
1363	A robust antibody discovery platform for difficultâ€toâ€express G proteinâ€coupled receptors. Protein Science, 2023, 32, .	3.1	1
1365	MUG: A mutation overview of GPCR subfamily A17 receptors. Computational and Structural Biotechnology Journal, 2023, 21, 586-600.	1.9	0
1367	Computational investigation of functional water molecules in GPCRs bound to G protein or arrestin. Journal of Computer-Aided Molecular Design, 2023, 37, 91-105.	1.3	3
1368	Engineered Human Antibody with Improved Endothelin Receptor Type A Binding Affinity, Developability, and Serum Persistence Exhibits Excellent Antitumor Potency. Molecular Pharmaceutics, 0, , .	2.3	0
1369	Activation of OR10A3 by Suberic Acid Promotes Collagen Synthesis in UVB-Irradiated Dermal Fibroblasts via the cAMP-Akt Pathway. Cells, 2022, 11, 3961.	1.8	3
1370	Structural insight into the constitutive activity of human orphan receptor GPR12. Science Bulletin, 2023, 68, 95-104.	4.3	8
1372	OR2AT4 and OR1A2 counterregulate molecular pathophysiological processes of steroid-resistant inflammatory lung diseases in human alveolar macrophages. Molecular Medicine, 2022, 28, .	1.9	2
1373	Artificial Intelligence: The Milestone in Modern Biomedical Research. BioMedInformatics, 2022, 2, 727-744.	1.0	17
1374	Cation-? Interaction as a Key Player in Healthcare: A Mini-Review. , 0, 2022, 1-13.		0
1375	Comparative Study of Receptor-, Receptor State-, and Membrane-Dependent Cholesterol Binding Sites in A_{2A} and A₁ Adenosine Receptors Using Coarse-Grained Molecular Dynamics Simulations. Journal of Chemical Information and Modeling, 2023, 63, 928-949.	2.5	5
1377	Dietary Zinc Differentially Regulates the Effects of the GPR39 Receptor Agonist, TC-G 1008, in the Maximal Electroshock Seizure Test and Pentylenetetrazole-Kindling Model of Epilepsy. Cells, 2023, 12, 264.	1.8	3

#	Article	IF	Citations
1378	Role of G-Proteins and GPCRs in Cardiovascular Pathologies. Bioengineering, 2023, 10, 76.	1.6	2
1379	Pharmacological Profiling of a Brugia malayi Muscarinic Acetylcholine Receptor as a Putative Antiparasitic Target. Antimicrobial Agents and Chemotherapy, 2023, 67, .	1.4	1
1380	GPCR Signaling Measurement and Drug Profiling with an Automated Live-Cell Microscopy System. ACS Sensors, 2023, 8, 19-27.	4.0	2
1381	High expression of LGR6 is a poor prognostic factor in esophageal carcinoma. Pathology Research and Practice, 2023, 242, 154312.	1.0	1
1382	Structural clarity is brought to adhesion G proteinâ€coupled receptor tethered agonism. Basic and Clinical Pharmacology and Toxicology, 2023, 133, 295-300.	1.2	4
1383	Structures of the arginine-vasopressin and oxytocin receptor signaling complexes. Vitamins and Hormones, 2023, , 67-107.	0.7	0
1384	Neurokinin-1 receptor is highly expressed in cervical cancer and its antagonist induces cervical cancer cell apoptosis. European Journal of Histochemistry, 2022, 67, .	0.6	1
1385	Turn On, Tune In, Turnover! Target Biology Impacts In Vivo Potency, Efficacy, and Clearance. Pharmacological Reviews, 2023, 75, 416-462.	7.1	2
1386	Stickier G-protein conformations. Nature Chemical Biology, 0, , .	3.9	0
1387	A streamlined protocol for expression and purification of wild-type Î²-arrestins. Methods in Enzymology, 2023, , 465-475.	0.4	2
1388	DNA-modularized construction of bivalent ligands precisely regulates receptor binding and activation. CheM, 2023, 9, 901-923.	5.8	4
1389	Interpreting the molecular mechanisms of disease variants in human transmembrane proteins. Biophysical Journal, 2023, 122, 2176-2191.	0.2	7
1390	Modulating brain integrative actions as a new perspective on pharmacological approaches to neuropsychiatric diseases. Frontiers in Endocrinology, 0, 13, .	1.5	2
1391	Structural Understanding of Peptide-Bound G Protein-Coupled Receptors: Peptideâ€“Target Interactions. Journal of Medicinal Chemistry, 2023, 66, 1083-1111.	2.9	6
1392	Design of Analgesic Trivalent Peptides with Low Withdrawal Symptoms: Probing the Antinociceptive Profile of Novel Linear and Cyclic Peptides as Opioid Pan Ligands. ACS Chemical Neuroscience, 2023, 14, 506-515.	1.7	2
1393	GPCR Allostery: A View from Computational Biology. Current Medicinal Chemistry, 2023, 30, 4533-4553.	1.2	2
1394	Identification and Characterization of ML321: A Novel and Highly Selective D₂ Dopamine Receptor Antagonist with Efficacy in Animal Models That Predict Atypical Antipsychotic Activity. ACS Pharmacology and Translational Science, 2023, 6, 151-170.	2.5	1
1395	Targeting in silico GPCR conformations with ultra-large library screening for hit discovery. Trends in Pharmacological Sciences, 2023, 44, 150-161.	4.0	6

#	Article	IF	Citations
1396	Ligand Gaussian Accelerated Molecular Dynamics 2 (LiGaMD2): Improved Calculations of Ligand Binding Thermodynamics and Kinetics with Closed Protein Pocket. Journal of Chemical Theory and Computation, 2023, 19, 733-745.	2.3	10
1398	Ligands selectively tune the local and global motions of neurotensin receptor 1 (NTS1). Cell Reports, 2023, 42, 112015.	2.9	7
1399	An Update of G-Protein-Coupled Receptor Signaling and Its Deregulation in Gastric Carcinogenesis. Cancers, 2023, 15, 736.	1.7	1
1400	Generation of GÎ±i knock-out HEK293 cells illuminates GÎ±i-coupling diversity of GPCRs. Communications Biology, 2023, 6, .	2.0	3
1401	A multi-dimensional view of context-dependent G protein-coupled receptor function. Biochemical Society Transactions, 2023, 51, 13-20.	1.6	2
1402	Cryoâ€EM structure of orphan G proteinâ€coupled receptor GPR21. MedComm, 2023, 4, .	3.1	7
1403	Profiling of G-Protein Coupled Receptors in Adipose Tissue and Differentiating Adipocytes Offers a Translational Resource for Obesity/Metabolic Research. Cells, 2023, 12, 377.	1.8	6
1405	Direct Selection of DNA-Encoded Libraries for Biased Agonists of GPCRs on Live Cells. Jacs Au, 2023, 3, 1076-1088.	3.6	3
1406	Migration mediated by the oxysterol receptor GPR183 depends on arrestin coupling but not receptor internalization. Science Signaling, 2023, 16, .	1.6	1
1407	Lipid-Sensing Receptor FFAR4 Modulates Pulmonary Epithelial Homeostasis following Immunogenic Exposures Independently of the FFAR4 Ligand Docosahexaenoic Acid (DHA). International Journal of Molecular Sciences, 2023, 24, 7072.	1.8	1
1408	Concerted Antibody and Antigen Discovery by Differential Whole-cell Phage Display Selections and Multi-omic Target Deconvolution. Journal of Molecular Biology, 2023, 435, 168085.	2.0	0
1409	Sub-millisecond conformational dynamics of the A2A adenosine receptor revealed by single-molecule FRET. Communications Biology, 2023, 6, .	2.0	9
1410	NMR applications to GPCR recognition by peptide ligands. Current Opinion in Pharmacology, 2023, 70, 102366.	1.7	0
1411	Insights into Î²3-adrenoceptor agonism through comprehensive in silico investigation. Computational Biology and Chemistry, 2023, 104, 107836.	1.1	0
1412	New insights into GPCR coupling and dimerisation from cryo-EM structures. Current Opinion in Structural Biology, 2023, 80, 102574.	2.6	8
1413	The G protein-coupled receptor neuropeptide receptor-15 modulates larval development via the transforming growth factor-Î² DAF-7 protein in Caenorhabditis elegans. Biochemical and Biophysical Research Communications, 2023, 660, 28-34.	1.0	0
1414	Application of computational methods for class A GPCR Ligand discovery. Journal of Molecular Graphics and Modelling, 2023, 121, 108434.	1.3	3
1415	Structure-based pharmacophore modeling 1. Automated random pharmacophore model generation. Journal of Molecular Graphics and Modelling, 2023, 121, 108429.	1.3	1

#	Article	IF	Citations
1416	In Vitro and In Silico Studies of Neolignans from Magnolia grandiflora L. Seeds against Human Cannabinoids and Opioid Receptors. Molecules, 2023, 28, 1253.	1.7	2
1417	Neue Arzneimittel 2021. , 2022, , 29-45.		0
1418	Rapid One-Step Capturing of Native, Cell-Free Synthesized and Membrane-Embedded GLP-1R. International Journal of Molecular Sciences, 2023, 24, 2808.	1.8	4
1419	Upregulated GPRC5A disrupting the Hippo pathway promotes the proliferation and migration of pancreatic cancer cells via the cAMP-CREB axis. Discover Oncology, 2023, 14, .	0.8	2
1420	Acute-serum amyloid A and A-SAA-derived peptides as formyl peptide receptor (FPR) 2 ligands. Frontiers in Endocrinology, 0, 14, .	1.5	4
1422	Unravelling G proteinâ€coupled receptor signalling networks using global phosphoproteomics. British Journal of Pharmacology, 0, , .	2.7	0
1423	Therapeutic targeting of HCMV-encoded chemokine receptor US28: Progress and challenges. Frontiers in Immunology, 0, 14, .	2.2	2
1424	Novel targets for potential therapeutic use in Diabetes mellitus. Diabetology and Metabolic Syndrome, 2023, 15, .	1.2	10
1425	Posing the rationale for synthetic lipoxin mimetics as an adjuvant treatment to gold standard atherosclerosis therapies. Frontiers in Pharmacology, 0, 14, .	1.6	0
1426	Role of the G Protein-Coupled Receptors in Cancer and Stromal Cells: From Functions to Novel Therapeutic Perspectives. Cells, 2023, 12, 626.	1.8	0
1427	GPCR in Adipose Tissue Functionâ€"Focus on Lipolysis. Biomedicines, 2023, 11, 588.	1.4	5
1428	The spatial distribution of GPCR and Gî²î³ activity across a cell dictates PIP3 dynamics. Scientific Reports, 2023, 13, .	1.6	3
1429	Allosteric modulation of G protein-coupled receptor signaling. Frontiers in Endocrinology, 0, 14, .	1.5	11
1430	Developing novel antifungals: lessons from G protein-coupled receptors. Trends in Pharmacological Sciences, 2023, 44, 162-174.	4.0	5
1431	Structureâ€"function relationship and physiological role of apelin and its G protein coupled receptor. Biophysical Reviews, 2023, 15, 127-143.	1.5	6
1432	Emergence of mass spectrometry detergents for membrane proteomics. Analytical and Bioanalytical Chemistry, 2023, 415, 3897-3909.	1.9	8
1434	Protein Design Strategies for the Structuralâ€"Functional Studies of G Protein-Coupled Receptors. Biochemistry (Moscow), 2023, 88, S192-S226.	0.7	0
1435	All-Atom Molecular Dynamics Simulations Indicated the Involvement of a Conserved Polar Signaling Channel in the Activation Mechanism of the Type I Cannabinoid Receptor. International Journal of Molecular Sciences, 2023, 24, 4232.	1.8	0

#	Article	IF	Citations
1436	Overview of CNS Organization and Development. , 2023, , 3-28.		0
1437	Singleâ€cell sequencing of entorhinal cortex reveals widespread disruption of neuropeptide networks in Alzheimer's disease. Alzheimer's and Dementia, 2023, 19, 3575-3592.	0.4	1
1438	GÎ±i-derived peptide binds the Âµ-opioid receptor. Pharmacological Reports, 2023, 75, 465-473.	1.5	0
1439	The impact of cryo-EM on determining allosteric modulator-bound structures of G protein-coupled receptors. Current Opinion in Structural Biology, 2023, 79, 102560.	2.6	3
1440	Heteromerization of Dopamine D2 and Oxytocin Receptor in Adult Striatal Astrocytes. International Journal of Molecular Sciences, 2023, 24, 4677.	1.8	4
1441	GRK6 palmitoylation increasing its membrance translocation promotes LPS-induced inflammation by PI3K/ AKT pathway in kuppfer cells. International Immunopharmacology, 2023, 117, 109933.	1.7	0
1442	Functional optimization of light-activatable Opto-GPCRs: Illuminating the importance of the proximal C-terminus in G-protein specificity. Frontiers in Cell and Developmental Biology, 0, 11, .	1.8	4
1443	G Protein-Coupled Receptors. Springer Briefs in Molecular Science, 2023, , 1-28.	0.1	0
1444	Cholesterol in Class C GPCRs: Role, Relevance, and Localization. Membranes, 2023, 13, 301.	1.4	4
1445	Expression Mapping and Functional Analysis of Orphan G-Protein-Coupled Receptor GPR158 in the Adult Mouse Brain Using a GPR158 Transgenic Mouse. Biomolecules, 2023, 13, 479.	1.8	5
1448	Cardiovascular Pharmacology in Pediatric Patients with Congenital Heart Disease. , 2023, , 91-152.		0
1449	NanoB2 to monitor interactions of ligands with membrane proteins by combining nanobodies and NanoBRET. Cell Reports Methods, 2023, 3, 100422.	1.4	2
1450	Design of Drug Efficacy Guided by Free Energy Simulations of the Î² ₂ â€Adrenoceptor. Angewandte Chemie, 0, , .	1.6	0
1451	Classification of domains in predicted structures of the human proteome. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	3.3	14
1452	Design of Drug Efficacy Guided by Free Energy Simulations of the Î²₂â€Adrenoceptor. Angewandte Chemie - International Edition, 2023, 62, .	7.2	5
1453	A Rab10â€“ACAP1â€“Arf6 GTPases cascade modulates M4 muscarinic acetylcholine receptor trafficking and signaling. Cellular and Molecular Life Sciences, 2023, 80, .	2.4	0
1454	Tris(hydroxymethyl)aminomethane Linker-Bearing Triazine-Based Triglucosides for Solubilization and Stabilization of Membrane Proteins. Bioconjugate Chemistry, 2023, 34, 739-747.	1.8	2
1456	Pharmacogenomics: Driving Personalized Medicine. Pharmacological Reviews, 2023, 75, 789-814.	7.1	15

#	Article	IF	Citations
1457	Drug discovery: Chaos can be your friend or your enemy. , 2023, , 417-511.		2
1458	Research and discovery: Essential partners but just a start. , 2023, , 513-527.		0
1459	Efficient screening of protein-ligand complexes in lipid bilayers using LoCoMock score. Journal of Computer-Aided Molecular Design, 2023, 37, 217-225.	1.3	1
1460	Activation of GPR173 Alleviates Neuropathic Pain and Chronic Inflammation. Journal of Biomedical Nanotechnology, 2022, 18, 2566-2572.	0.5	0
1461	Structure-affinity and structure-residence time relationships of macrocyclic GÎ±q protein inhibitors. IScience, 2023, 26, 106492.	1.9	2
1462	Cardiac RGS Proteins in Human Heart Failure and Atrial Fibrillation: Focus on RGS4. International Journal of Molecular Sciences, 2023, 24, 6136.	1.8	4
1463	The roles of RGS proteins in cardiometabolic disease. British Journal of Pharmacology, 0, , .	2.7	1
1464	The application of targeted protein degradation technologies to G proteinâ€coupled receptors. British Journal of Pharmacology, 0, , .	2.7	2
1465	A community Biased Signaling Atlas. Nature Chemical Biology, 2023, 19, 531-535.	3.9	4
1466	Reverse tracking from drug-induced transcriptomes through multilayer molecular networks reveals hidden drug targets. Computers in Biology and Medicine, 2023, 158, 106881.	3.9	0
1468	Brain Structure and Function: Insights from Chemical Neuroanatomy. Life, 2023, 13, 940.	1.1	3
1469	Phosphorylation barcodes direct biased chemokine signaling at CXCR3. Cell Chemical Biology, 2023, 30, 362-382.e8.	2.5	9
1471	Downstream signalling of the diseaseâ€associated mutations on GPR56/ADGRG1. Basic and Clinical Pharmacology and Toxicology, 2023, 133, 331-341.	1.2	3
1472	G protein coupled receptors as targets for transformative neuropsychiatric therapeutics. American Journal of Physiology - Cell Physiology, 0, , .	2.1	1
1473	The IQGAP scaffolds: Critical nodes bridging receptor activation to cellular signaling. Journal of Cell Biology, 2023, 222, .	2.3	2
1474	Structure-based pharmacophore modeling 2. Developing a novel framework for structure-based pharmacophore model generation and selection. Journal of Molecular Graphics and Modelling, 2023, 122, 108488.	1.3	2
1475	Enhancing Top-Down Characterization of Membrane Proteoforms with C8-Functional Amine-Bridged Hybrid Monoliths. Analytical Chemistry, 2023, 95, 6846-6853.	3.2	2
1476	Solvent accessibility of a <scp>GPCR</scp> transmembrane domain probed by inâ€membrane chemical modification (<scp>IMCM</scp>). FEBS Letters, 2023, 597, 1541-1549.	1.3	3

#	Article	IF	Citations
1477	Subcellular location defines GPCR signal transduction. Science Advances, 2023, 9, .	4.7	14
1478	Oncogenic roles of GPR176 in breast cancer: a potential marker of aggressiveness and a potential target of gene therapy. Clinical and Translational Oncology, 0, , .	1.2	2
1479	The role of the adenosine system in epilepsy and its comorbidities. British Journal of Pharmacology, 0, , .	2.7	6
1496	CADD Approaches and Antiviral Drug Discovery. , 2023, , 313-334.		0
1518	A Novel Strategy for the Development of Functional Foods to Improve Energy Metabolism Disorders: Stable Isotope-Resolved Metabolomics. Food and Bioprocess Technology, 2024, 17, 591-605.	2.6	0
1521	Pharmacogenomics in drug discovery and development. , 2023, , 57-96.		0
1524	The adenosine A2A receptor in the basal ganglia: Expression, heteromerization, functional selectivity and signalling. International Review of Neurobiology, 2023, , .	0.9	0
1553	Identification of a Salt Bridge That Is Functionally Important for Chemokine Receptor CXCR1 but not CXCR2. ACS Pharmacology and Translational Science, 0, , .	2.5	0
1578	Protein Networks in Human Disease. , 2023, , 1-41.		0
1608	Structural insights into an intracellular biased agonist for GPCRs. Nature Structural and Molecular Biology, 0, , .	3.6	0
1615	Editorial: New approaches for the discovery of GPCR ligands. Frontiers in Endocrinology, 0, 14, .	1.5	0
1621	Pharmacokinetics and Pharmacodynamics: Fundamentals and Role(s) in Drug Discovery and Development. , 2023, , 357-393.		0
1649	THE SEROTONIN 5-HT_{2A} RECEPTOR AS AN EVOLVING NEUROTHERAPEUTIC TARGET. Medicinal Chemistry Reviews, 0, , 53-81.	0.1	0
1664	FPGA Accelerating Multi-Source Transfer Learning with GAT for Bioactivities of Ligands Targeting Orphan G Protein-Coupled Receptors. , 2023, , .		0
1681	From odor to oncology: non-canonical odorant receptors in cancer. Oncogene, 0, , .	2.6	1
1710	Oral Infections, SARS-CoV-2 Infection, and Autoimmunity. , 2024, , 1013-1044.		0
1713	Editorial: Advanced biophysical and biochemical technologies to study GPCR signal transduction. Frontiers in Endocrinology, 0, 14, .	1.5	0
1727	Next-Generation Therapies for Type 2 Diabetes Mellitus. , 2024, , 347-376.		0

#	Article	IF	Citations
1739	Agonisten und Antagonisten von membranstÃndigen Rezeptoren. , 2023, , 603-628.		0
1745	Editorial: Pharmacology of endocrine related GPCRs. Frontiers in Endocrinology, 0, 15, .	1.5	0