Bryan L Roth

List of Publications by Year
in descending order

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464 papers	62,650 citations	1172 114 h-index	1333 229 g-index
572 all docs	572 docs citations	572 times ranked	61784 citing authors

#	Article	IF	Citations
1	A SARS-CoV-2 protein interaction map reveals targets for drug repurposing. Nature, 2020, 583, 459-468.	13.7	3,542
2	Relating protein pharmacology by ligand chemistry. Nature Biotechnology, 2007, 25, 197-206.	9.4	1,722
3	Evolving the lock to fit the key to create a family of G protein-coupled receptors potently activated by an inert ligand. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5163-5168.	3.3	1,683
4	Predicting new molecular targets for known drugs. Nature, 2009, 462, 175-181.	13.7	1,474
5	The Expanded Biology of Serotonin. Annual Review of Medicine, 2009, 60, 355-366.	5.0	1,451
6	Morphometric evidence for neuronal and glial prefrontal cell pathology in major depressionâˆ—â€”See accompanying Editorial, in this issue.. Biological Psychiatry, 1999, 45, 1085-1098.	0.7	1,395
7	DREADDs for Neuroscientists. Neuron, 2016, 89, 683-694.	3.8	1,210
8	Rapid, reversible activation of AgRP neurons drives feeding behavior in mice. Journal of Clinical Investigation, 2011, 121, 1424-1428.	3.9	1,184
9	Magic shotguns versus magic bullets: selectively non-selective drugs for mood disorders and schizophrenia. Nature Reviews Drug Discovery, 2004, 3, 353-359.	21.5	1,044
10	Functional Selectivity and Classical Concepts of Quantitative Pharmacology. Journal of Pharmacology and Experimental Therapeutics, 2007, 320, 1-13.	1.3	997
11	Aripiprazole, A Novel Atypical Antipsychotic Drug with a Unique and Robust Pharmacology. Neuropsychopharmacology, 2003, 28, 1400-1411.	2.8	848
12	Remote Control of Neuronal Activity in Transgenic Mice Expressing Evolved G Protein-Coupled Receptors. Neuron, 2009, 63, 27-39.	3.8	809
13	Structure of the human Î¼-opioid receptor in complex with JDTic. Nature, 2012, 485, 327-332.	13.7	797
14	Parkin-deficient Mice Exhibit Nigrostriatal Deficits but Not Loss of Dopaminergic Neurons. Journal of Biological Chemistry, 2003, 278, 43628-43635.	1.6	784
15	Structure-based discovery of opioid analgesics with reduced side effects. Nature, 2016, 537, 185-190.	13.7	744
16	Salvinorin A: A potent naturally occurring nonnitrogenous Â opioid selective agonist. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11934-11939.	3.3	712
17	Automated design of ligands to polypharmacological profiles. Nature, 2012, 492, 215-220.	13.7	698
18	The promise and peril of chemical probes. Nature Chemical Biology, 2015, 11, 536-541.	3.9	698

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19	H1-Histamine Receptor Affinity Predicts Short-Term Weight Gain for Typical and Atypical Antipsychotic Drugs. Neuropsychopharmacology, 2003, 28, 519-526.	2.8	694
20	Evidence for Possible Involvement of 5-HT _{2B} Receptors in the Cardiac Valvulopathy Associated With Fenfluramine and Other Serotonergic Medications. Circulation, 2000, 102, 2836-2841.	1.6	659
21	Structural Features for Functional Selectivity at Serotonin Receptors. Science, 2013, 340, 615-619.	6.0	600
22	Ultra-large library docking for discovering new chemotypes. Nature, 2019, 566, 224-229.	13.7	595
23	Endocrine Regulation of Male Fertility by the Skeleton. Cell, 2011, 144, 796-809.	13.5	542
24	DREADDs (Designer Receptors Exclusively Activated by Designer Drugs): Chemogenetic Tools with Therapeutic Utility. Annual Review of Pharmacology and Toxicology, 2015, 55, 399-417.	4.2	539
25	PRESTO-Tango as an open-source resource for interrogation of the druggable human GPCRome. Nature Structural and Molecular Biology, 2015, 22, 362-369.	3.6	535
26	Nigrostriatal Dopaminergic Deficits and Hypokinesia Caused by Inactivation of the Familial Parkinsonism-Linked Gene DJ-1. Neuron, 2005, 45, 489-496.	3.8	485
27	A chemical probe selectively inhibits G9a and GLP methyltransferase activity in cells. Nature Chemical Biology, 2011, 7, 566-574.	3.9	465
28	Structural Basis for Molecular Recognition at Serotonin Receptors. Science, 2013, 340, 610-614.	6.0	454
29	Drugs and Valvular Heart Disease. New England Journal of Medicine, 2007, 356, 6-9.	13.9	450
30	Molecular control of Î´-opioid receptor signalling. Nature, 2014, 506, 191-196.	13.7	432
31	Structure of the nociceptin/orphanin FQ receptor in complex with a peptide mimetic. Nature, 2012, 485, 395-399.	13.7	430
32	How Ligands Illuminate GPCR Molecular Pharmacology. Cell, 2017, 170, 414-427.	13.5	419
33	The Human Polyomavirus, JCV, Uses Serotonin Receptors to Infect Cells. Science, 2004, 306, 1380-1383.	6.0	417
34	Allosteric sodium in class A GPCR signaling. Trends in Biochemical Sciences, 2014, 39, 233-244.	3.7	417
35	Structure of the human smoothened receptor bound to an antitumour agent. Nature, 2013, 497, 338-343.	13.7	415
36	Chemogenetic Tools to Interrogate Brain Functions. Annual Review of Neuroscience, 2014, 37, 387-407.	5.0	412

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37	An Orally Bioavailable Chemical Probe of the Lysine Methyltransferases EZH2 and EZH1. ACS Chemical Biology, 2013, 8, 1324-1334.	1.6	399
38	Transient neuronal inhibition reveals opposing roles of indirect and direct pathways in sensitization. Nature Neuroscience, 2011, 14, 22-24.	7.1	377
39	Discovery of a Novel Member of the Histamine Receptor Family. Molecular Pharmacology, 2001, 59, 427-433.	1.0	346
40	Structure of the D2 dopamine receptor bound to the atypical antipsychotic drug risperidone. Nature, 2018, 555, 269-273.	13.7	341
41	Crystal Structure of an LSD-Bound Human Serotonin Receptor. Cell, 2017, 168, 377-389.e12.	13.5	340
42	Generation of a Synthetic Memory Trace. Science, 2012, 335, 1513-1516.	6.0	335
43	Cloning, Characterization, and Chromosomal Localization of a Human 5â€HT₆ Serotonin Receptor. Journal of Neurochemistry, 1996, 66, 47-56.	2.1	329
44	A New DREADD Facilitates the Multiplexed Chemogenetic Interrogation of Behavior. Neuron, 2015, 86, 936-946.	3.8	320
45	Topoisomerase inhibitors unsilence the dormant allele of Ube3a in neurons. Nature, 2012, 481, 185-189.	13.7	318
46	Inhibition of Mediodorsal Thalamus Disrupts Thalamofrontal Connectivity and Cognition. Neuron, 2013, 77, 1151-1162.	3.8	318
47	Discovery of Î²-Arrestinâ€“Biased Dopamine D ₂ Ligands for Probing Signal Transduction Pathways Essential for Antipsychotic Efficacy. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18488-18493.	3.3	312
48	The Multiplicity of Serotonin Receptors: Uselessly Diverse Molecules or an Embarrassment of Riches?. Neuroscientist, 2000, 6, 252-262.	2.6	303
49	Structure of the Nanobody-Stabilized Active State of the Kappa Opioid Receptor. Cell, 2018, 172, 55-67.e15.	13.5	299
50	Serotonin 5-HT2A receptors are expressed on pyramidal cells and interneurons in the rat cortex. , 1997, 27, 79-82.		295
51	Remote Control of Neuronal Signaling. Pharmacological Reviews, 2011, 63, 291-315.	7.1	293
52	Control of Serotonergic Function in Medial Prefrontal Cortex by Serotonin-2A Receptors through a Glutamate-Dependent Mechanism. Journal of Neuroscience, 2001, 21, 9856-9866.	1.7	292
53	Morphine paradoxically prolongs neuropathic pain in rats by amplifying spinal NLRP3 inflammasome activation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3441-50.	3.3	292
54	Comprehensive characterization of the Published Kinase Inhibitor Set. Nature Biotechnology, 2016, 34, 95-103.	9.4	289

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55	A chemical-genetic approach to study G protein regulation of Î² cell function in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19197-19202.	3.3	287
56	Ligand discovery from a dopamine D3 receptor homology model and crystal structure. Nature Chemical Biology, 2011, 7, 769-778.	3.9	285
57	G-protein-coupled receptors at a glance. Journal of Cell Science, 2003, 116, 4867-4869.	1.2	282
58	N-Desalkylquetiapine, a Potent Norepinephrine Reuptake Inhibitor and Partial 5-HT1A Agonist, as a Putative Mediator of Quetiapine's Antidepressant Activity. Neuropsychopharmacology, 2008, 33, 2303-2312.	2.8	282
59	TRUPATH, an open-source biosensor platform for interrogating the GPCR transducerome. Nature Chemical Biology, 2020, 16, 841-849.	3.9	281
60	Structure and function of serotonin G protein-coupled receptors. , 2015, 150, 129-142.		275
61	Structure of a Hallucinogen-Activated Gq-Coupled 5-HT2A Serotonin Receptor. Cell, 2020, 182, 1574-1588.e19.	13.5	270
62	3,4-Methylenedioxymethamphetamine (MDMA, â€œEcstasyâ€) Induces Fenfluramine-Like Proliferative Actions on Human Cardiac Valvular Interstitial Cells in Vitro. Molecular Pharmacology, 2003, 63, 1223-1229.	1.0	263
63	Unexplored therapeutic opportunities in the human genome. Nature Reviews Drug Discovery, 2018, 17, 317-332.	21.5	263
64	Paradoxical trafficking and regulation of 5-HT2A receptors by agonists and antagonists. Brain Research Bulletin, 2001, 56, 441-451.	1.4	262
65	Molecular Biology of Serotonin Receptors - Structure and Function at the Molecular Level. Current Topics in Medicinal Chemistry, 2002, 2, 507-528.	1.0	243
66	Amisulpride is a potent 5-HT7 antagonist: relevance for antidepressant actions in vivo. Psychopharmacology, 2009, 205, 119-128.	1.5	240
67	In silico design of novel probes for the atypical opioid receptor MRGPRX2. Nature Chemical Biology, 2017, 13, 529-536.	3.9	230
68	Engineering GPCR signaling pathways with RASSLs. Nature Methods, 2008, 5, 673-678.	9.0	223
69	Discovery of an in Vivo Chemical Probe of the Lysine Methyltransferases G9a and GLP. Journal of Medicinal Chemistry, 2013, 56, 8931-8942.	2.9	220
70	Pharmacogenetic Modulation of Orexin Neurons Alters Sleep/Wakefulness States in Mice. PLoS ONE, 2011, 6, e20360.	1.1	216
71	Serotonin receptors represent highly favorable molecular targets for cognitive enhancement in schizophrenia and other disorders. Psychopharmacology, 2004, 174, 17-24.	1.5	215
72	Allosteric ligands for the pharmacologically dark receptors GPR68 and GPR65. Nature, 2015, 527, 477-483.	13.7	214

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73	Structural basis for Smoothened receptor modulation and chemoresistance to anticancer drugs. Nature Communications, 2014, 5, 4355.	5.8	208
74	Molecular Targets for Treating Cognitive Dysfunction in Schizophrenia. Schizophrenia Bulletin, 2007, 33, 1100-1119.	2.3	205
75	Finding New Tricks For Old Drugs: An Efficient Route For Public-Sector Drug Discovery. Nature Reviews Drug Discovery, 2005, 4, 1005-1014.	21.5	196
76	Salvinorin A, an Active Component of the Hallucinogenic Sage Salvia divinorum Is a Highly Efficacious Î¹-Opioid Receptor Agonist: Structural and Functional Considerations. Journal of Pharmacology and Experimental Therapeutics, 2004, 308, 1197-1203.	1.3	194
77	Multiple Serotonin Receptors: Clinical and Experimental Aspects. Annals of Clinical Psychiatry, 1994, 6, 67-78.	0.6	190
78	Strategies to Discover Unexpected Targets for Drugs Active at G Proteinâ€“Coupled Receptors. Annual Review of Pharmacology and Toxicology, 2011, 51, 117-144.	4.2	189
79	Deschloroclozapine, a potent and selective chemogenetic actuator enables rapid neuronal and behavioral modulations in mice and monkeys. Nature Neuroscience, 2020, 23, 1157-1167.	7.1	187
80	Interactions of selective serotonin reuptake inhibitors with the serotonin 5-HT2C receptor. Psychopharmacology, 1996, 126, 234-240.	1.5	185
81	5-HT2C Receptor Structures Reveal the Structural Basis of GPCR Polypharmacology. Cell, 2018, 172, 719-730.e14.	13.5	185
82	Virtual discovery of melatonin receptor ligands to modulate circadian rhythms. Nature, 2020, 579, 609-614.	13.7	184
83	CRF receptor 1 regulates anxiety behavior via sensitization of 5-HT2 receptor signaling. Nature Neuroscience, 2010, 13, 622-629.	7.1	176
84	D ₄ dopamine receptor high-resolution structures enable the discovery of selective agonists. Science, 2017, 358, 381-386.	6.0	176
85	Serotonin receptors and heart valve diseaseâ€”It was meant 2B. , 2011, 132, 146-157.		175
86	Rapid modulation of spine morphology by the 5-HT _{2A} serotonin receptor through kalirin-7 signaling. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19575-19580.	3.3	174
87	The pipeline and future of drug development in schizophrenia. Molecular Psychiatry, 2007, 12, 904-922.	4.1	173
88	Evidence for the Involvement of Dopamine Transporters in Behavioral Stimulant Effects of Modafinil. Journal of Pharmacology and Experimental Therapeutics, 2009, 329, 738-746.	1.3	169
89	In Vitro Characterization of Ephedrine-Related Stereoisomers at Biogenic Amine Transporters and the Receptorome Reveals Selective Actions as Norepinephrine Transporter Substrates. Journal of Pharmacology and Experimental Therapeutics, 2003, 307, 138-145.	1.3	167
90	Evidence for the Preferential Involvement of 5-HT2A Serotonin Receptors in Stress- and Drug-Induced Dopamine Release in the Rat Medial Prefrontal Cortex. Neuropsychopharmacology, 2006, 31, 265-277.	2.8	165

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91	Evidence for a Model of Agonist-induced Activation of 5-Hydroxytryptamine 2A Serotonin Receptors That Involves the Disruption of a Strong Ionic Interaction between Helices 3 and 6. Journal of Biological Chemistry, 2002, 277, 11441-11449.	1.6	161
92	Creâ€dependent DREADD (Designer Receptors Exclusively Activated by Designer Drugs) mice. Genesis, 2016, 54, 439-446.	0.8	158
93	Discovery of Human Signaling Systems: Pairing Peptides to G Protein-Coupled Receptors. Cell, 2019, 179, 895-908.e21.	13.5	157
94	Identifying mechanism-of-action targets for drugs and probes. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11178-11183.	3.3	156
95	Caveolin-1 Interacts with 5-HT2A Serotonin Receptors and Profoundly Modulates the Signaling of Selected Gα_q-coupled Protein Receptors. Journal of Biological Chemistry, 2004, 279, 34614-34623.	1.6	155
96	Localization of 5-HT2A receptors on dopamine cells in subnuclei of the midbrain A10 cell group. Neuroscience, 2002, 111, 163-176.	1.1	154
97	The G Proteinâ€“Biased Îº-Opioid Receptor Agonist RB-64 Is Analgesic with a Unique Spectrum of Activities In Vivo. Journal of Pharmacology and Experimental Therapeutics, 2015, 352, 98-109.	1.3	153
98	Synthon-based ligand discovery in virtual libraries of over 11 billion compounds. Nature, 2022, 601, 452-459.	13.7	153
99	A Direct Interaction of PSD-95 with 5-HT2A Serotonin Receptors Regulates Receptor Trafficking and Signal Transduction. Journal of Biological Chemistry, 2003, 278, 21901-21908.	1.6	152
100	Structural basis for bifunctional peptide recognition at human μ-opioid receptor. Nature Structural and Molecular Biology, 2015, 22, 265-268.	3.6	151
101	Neurochemical profiles of some novel psychoactive substances. European Journal of Pharmacology, 2013, 700, 147-151.	1.7	150
102	2-Substituted Tryptamines:Â Agents with Selectivity for 5-HT6Serotonin Receptorsâ€–. Journal of Medicinal Chemistry, 2000, 43, 1011-1018.	2.9	149
103	The Dynamin-dependent, Arrestin-independent Internalization of 5-Hydroxytryptamine 2A (5-HT2A) Serotonin Receptors Reveals Differential Sorting of Arrestins and 5-HT2A Receptors during Endocytosis. Journal of Biological Chemistry, 2001, 276, 8269-8277.	1.6	144
104	DREADD Agonist 21 Is an Effective Agonist for Muscarinic-Based DREADDs in Vitro and in Vivo. ACS Pharmacology and Translational Science, 2018, 1, 61-72.	2.5	143
105	Salvinorin A: the â€˜magic mintâ€™ hallucinogen finds a molecular target in the kappa opioid receptor. Trends in Pharmacological Sciences, 2003, 24, 107-109.	4.0	142
106	Structure-inspired design of β-arrestin-biased ligands for aminergic GPCRs. Nature Chemical Biology, 2018, 14, 126-134.	3.9	141
107	Structural basis of ligand recognition at the human MT1 melatonin receptor. Nature, 2019, 569, 284-288.	13.7	140
108	Structural insights into the human D1 and D2 dopamine receptor signaling complexes. Cell, 2021, 184, 931-942.e18.	13.5	140

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109	Aortic recognition sites for serotonin (5HT) are coupled to phospholipase C and modulate phosphatidylinositol turnover. Neuropharmacology, 1984, 23, 1223-1225.	2.0	135
110	Chemogenetic Inactivation of Ventral Hippocampal Glutamatergic Neurons Disrupts Consolidation of Contextual Fear Memory. Neuropsychopharmacology, 2014, 39, 1880-1892.	2.8	135
111	Aripiprazole: A Novel Atypical Antipsychotic Drug With a Uniquely Robust Pharmacology. CNS Neuroscience & Therapeutics, 2004, 10, 317-336.	4.0	133
112	WAY-100635 is a potent dopamine D4 receptor agonist. Psychopharmacology, 2006, 188, 244-251.	1.5	133
113	A cellular chemical probe targeting the chromodomains of Polycomb repressive complex 1. Nature Chemical Biology, 2016, 12, 180-187.	3.9	133
114	The Ketamine Analogue Methoxetamine and 3- and 4-Methoxy Analogues of Phencyclidine Are High Affinity and Selective Ligands for the Glutamate NMDA Receptor. PLoS ONE, 2013, 8, e59334.	1.1	132
115	Directed molecular evolution of DREADDs: a generic approach to creating next-generation RASSLs. Nature Protocols, 2010, 5, 561-573.	5.5	131
116	Modulation of the autonomic nervous system and behaviour by acute glial cell G_q proteinâ€coupled receptor activation in vivo. Journal of Physiology, 2013, 591, 5599-5609.	1.3	129
117	The First Structureâ€“Activity Relationship Studies for Designer Receptors Exclusively Activated by Designer Drugs. ACS Chemical Neuroscience, 2015, 6, 476-484.	1.7	128
118	International Union of Basic and Clinical Pharmacology. CX. Classification of Receptors for 5-hydroxytryptamine; Pharmacology and Function. Pharmacological Reviews, 2021, 73, 310-520.	7.1	127
119	Parallel Functional Activity Profiling Reveals Valvulopathogens Are Potent 5-Hydroxytryptamine_{2B}Receptor Agonists: Implications for Drug Safety Assessment. Molecular Pharmacology, 2009, 76, 710-722.	1.0	125
120	Zebrafish behavioral profiling identifies multitarget antipsychotic-like compounds. Nature Chemical Biology, 2016, 12, 559-566.	3.9	124
121	Differential postnatal development of mu and delta opiate receptors. Developmental Brain Research, 1982, 3, 679-684.	2.1	122
122	Mice with altered serotonin 2C receptor RNA editing display characteristics of Praderâ€“Willi syndrome. Neurobiology of Disease, 2010, 39, 169-180.	2.1	121
123	Multiple mechanisms of serotonergic signal transduction. Life Sciences, 1987, 41, 1051-1064.	2.0	120
124	PSD-95 Is Essential for Hallucinogen and Atypical Antipsychotic Drug Actions at Serotonin Receptors. Journal of Neuroscience, 2009, 29, 7124-7136.	1.7	118
125	Structureâ€“Functional Selectivity Relationship Studies of Î²-Arrestin-Biased Dopamine D₂ Receptor Agonists. Journal of Medicinal Chemistry, 2012, 55, 7141-7153.	2.9	118
126	Elucidation of The Behavioral Program and Neuronal Network Encoded by Dorsal Raphe Serotonergic Neurons. Neuropsychopharmacology, 2016, 41, 1404-1415.	2.8	118

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127	Identification of Novel Functionally Selective Î²-Opioid Receptor Scaffolds. Molecular Pharmacology, 2014, 85, 83-90.	1.0	117
128	Distinct cortical and striatal actions of a Î²-arrestinâ€“biased dopamine D2 receptor ligand reveal unique antipsychotic-like properties. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8178-E8186.	3.3	117
129	Involvement of AMPA receptor phosphorylation in antidepressant actions with special reference to tianeptine. European Journal of Neuroscience, 2007, 26, 3509-3517.	1.2	116
130	A GÎ±s DREADD Mouse for Selective Modulation of cAMP Production in Striatopallidal Neurons. Neuropsychopharmacology, 2013, 38, 854-862.	2.8	116
131	Structural determinants of 5-HT2B receptor activation and biased agonism. Nature Structural and Molecular Biology, 2018, 25, 787-796.	3.6	116
132	Translating genome-wide association findings into new therapeutics for psychiatry. Nature Neuroscience, 2016, 19, 1392-1396.	7.1	115
133	Chemical informatics and target identification in a zebrafish phenotypic screen. Nature Chemical Biology, 2012, 8, 144-146.	3.9	113
134	Structures of the Ïƒ2 receptor enable docking for bioactive ligand discovery. Nature, 2021, 600, 759-764.	13.7	113
135	The highly efficacious actions of N-desmethylclozapine at muscarinic receptors are unique and not a common property of either typical or atypical antipsychotic drugs: is M1 agonism a pre-requisite for mimicking clozapine?s actions?. Psychopharmacology, 2005, 178, 451-460.	1.5	111
136	Developmental regulation of 5-HT2 and 5-HT1C mRNA and receptor levels. Developmental Brain Research, 1991, 58, 51-58.	2.1	110
137	Studies toward the Pharmacophore of Salvinorin A, a Potent Îº Opioid Receptor Agonist. Journal of Medicinal Chemistry, 2005, 48, 345-348.	2.9	110
138	XFEL structures of the human MT2 melatonin receptor reveal the basis of subtype selectivity. Nature, 2019, 569, 289-292.	13.7	106
139	New Insights into the Function of M₄ Muscarinic Acetylcholine Receptors Gained Using a Novel Allosteric Modulator and a DREADD (Designer Receptor Exclusively Activated by a Designer) Tj ETQq1 1 0.784314 rgBT /Overlock	4.6	105
140	Elevation of arterial pressure in rats by two new vertebrate peptides FLF QPQRF-NH2 and AGE GLSSPFWSLAAPQRF-NH2 which are immunoreactive to FMRF-NH2 antiserum. Neuropeptides, 1987, 10, 37-42.	0.9	104
141	Differential Modes of Agonist Binding to 5-Hydroxytryptamine_{2A} Serotonin Receptors Revealed by Mutation and Molecular Modeling of Conserved Residues in Transmembrane Region 5. Molecular Pharmacology, 2000, 58, 877-886.	1.0	104
142	Intraislet glucagon signaling is critical for maintaining glucose homeostasis. JCI Insight, 2019, 4, .	2.3	102
143	l-Homocysteine Sulfinic Acid and Other Acidic Homocysteine Derivatives Are Potent and Selective Metabotropic Glutamate Receptor Agonists. Journal of Pharmacology and Experimental Therapeutics, 2003, 305, 131-142.	1.3	101
144	Conformation Guides Molecular Efficacy in Docking Screens of Activated Î²-2 Adrenergic G Protein Coupled Receptor. ACS Chemical Biology, 2013, 8, 1018-1026.	1.6	101

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145	Structure, function and pharmacology of human itch GPCRs. Nature, 2021, 600, 170-175.	13.7	101
146	Lorcaserin and pimavanserin: emerging selectivity of serotonin receptor subtypeâ€“targeted drugs. Journal of Clinical Investigation, 2013, 123, 4986-4991.	3.9	100
147	Novel Inhibitors of Human Histone Deacetylase (HDAC) Identified by QSAR Modeling of Known Inhibitors, Virtual Screening, and Experimental Validation. Journal of Chemical Information and Modeling, 2009, 49, 461-476.	2.5	99
148	N1-(Benzenesulfonyl)tryptamines as novel 5-HT6 antagonists. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 2295-2299.	1.0	98
149	In vitro receptor screening of pure constituents of St. John's wort reveals novel interactions with a number of GPCRs. Psychopharmacology, 2002, 162, 193-202.	1.5	98
150	Photochemical activation of TRPA1 channels in neurons and animals. Nature Chemical Biology, 2013, 9, 257-263.	3.9	97
151	Serotonin 5-HT2A Receptors: Molecular Biology and Mechanisms of Regulation. Critical Reviews in Neurobiology, 1998, 12, 319-338.	3.3	96
152	A Potent, Selective and Cellâ€Active Allosteric Inhibitor of Protein Arginine Methyltransferaseâ€…3 (PRMT3). Angewandte Chemie - International Edition, 2015, 54, 5166-5170.	7.2	95
153	Targeting the histone methyltransferase G9a activates imprinted genes and improves survival of a mouse model of Praderâ€“Willi syndrome. Nature Medicine, 2017, 23, 213-222.	15.2	94
154	Nanobody-enabled monitoring of kappa opioid receptor states. Nature Communications, 2020, 11, 1145.	5.8	93
155	Screening the receptorome to discover the molecular targets for plant-derived psychoactive compounds: a novel approach for CNS drug discovery. , 2004, 102, 99-110.		92
156	Pharmacosynthetics: Reimagining the pharmacogenetic approach. Brain Research, 2013, 1511, 6-20.	1.1	92
157	Colloidal Aggregation Causes Inhibition of G Protein-Coupled Receptors. Journal of Medicinal Chemistry, 2013, 56, 2406-2414.	2.9	91
158	Structure and Function of the Third Intracellular Loop of the 5-Hydroxytryptamine2A Receptor: The Third Intracellular Loop Is Î±-Helical and Binds Purified Arrestins. Journal of Neurochemistry, 2008, 72, 2206-2214.	2.1	89
159	A pharmacological organization of G proteinâ€“coupled receptors. Nature Methods, 2013, 10, 140-146.	9.0	89
160	Cell-Type Specific Effects of Endocytosis Inhibitors on 5-Hydroxytryptamine_{2A}Receptor Desensitization and Resensitization Reveal an Arrestin-, GRK2-, and GRK5-Independent Mode of Regulation in Human Embryonic Kidney 293 Cells. Molecular Pharmacology, 2001, 60, 1020-1030.	1.0	88
161	Synthesis and Structureâ^'Activity Relationships of 3-[(2-Methyl-1,3-thiazol-4-yl)ethynyl]pyridine Analogues as Potent, Noncompetitive Metabotropic Glutamate Receptor Subtype 5 Antagonists; Search for Cocaine Medications. Journal of Medicinal Chemistry, 2006, 49, 1080-1100.	2.9	88
162	Harnessing Ion-Binding Sites for GPCR Pharmacology. Pharmacological Reviews, 2019, 71, 571-595.	7.1	87

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163	Identification of the Molecular Mechanisms by Which the Diterpenoid Salvinorin A Binds to Î¹-Opioid Receptorsâ€. Biochemistry, 2005, 44, 8643-8651.	1.2	84
164	Community guidelines for GPCR ligand bias: IUPHAR review 32. British Journal of Pharmacology, 2022, 179, 3651-3674.	2.7	84
165	Development of a Rationally Designed, Low Abuse Potential, Biogenic Amine Releaser That Suppresses Cocaine Self-Administration. Journal of Pharmacology and Experimental Therapeutics, 2005, 313, 1361-1369.	1.3	83
166	The promises and perils of psychedelic pharmacology for psychiatry. Nature Reviews Drug Discovery, 2022, 21, 463-473.	21.5	82
167	Antinociceptive and Hypothermic Effects of Salvinorin A Are Abolished in a Novel Strain of Î¹-Opioid Receptor-1 Knockout Mice. Journal of Pharmacology and Experimental Therapeutics, 2006, 318, 641-648.	1.3	80
168	Opportunities and Challenges of Psychiatric Drug Discovery: Roles for Scientists in Academic, Industry, and Government Settings. Neuropsychopharmacology, 2008, 33, 2048-2060.	2.8	80
169	Role of kappa-opioid receptors in the effects of salvinorin A and ketamine on attention in rats. Psychopharmacology, 2010, 210, 263-274.	1.5	80
170	NMR structure and dynamics of the agonist dynorphin peptide bound to the human kappa opioid receptor. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11852-11857.	3.3	80
171	Discovery of new GPCR ligands to illuminate new biology. Nature Chemical Biology, 2017, 13, 1143-1151.	3.9	80
172	Donated chemical probes for open science. ELife, 2018, 7, .	2.8	80
173	DREADD: A Chemogenetic GPCR Signaling Platform. International Journal of Neuropsychopharmacology, 2015, 18, pyu007-pyu007.	1.0	78
174	Pharmacological characterization of novel synthetic opioids (NSO) found in the recreational drug marketplace. Neuropharmacology, 2018, 134, 101-107.	2.0	78
175	Direct-Pathway Striatal Neurons Regulate the Retention of Decision-Making Strategies. Journal of Neuroscience, 2013, 33, 11668-11676.	1.7	77
176	Novel Molecular Targets of Dezocine and Their Clinical Implications. Anesthesiology, 2014, 120, 714-723.	1.3	77
177	Salvinorin A: From Natural Product to Human Therapeutics. Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics, 2006, 6, 257-265.	3.4	77
178	Integrated Approaches for Genome-wide Interrogation of the Druggable Non-olfactory G Protein-coupled Receptor Superfamily. Journal of Biological Chemistry, 2015, 290, 19471-19477.	1.6	76
179	Caveolin-1 and Lipid Microdomains Regulate G_sTrafficking and Attenuate G_s/Adenylyl Cyclase Signaling. Molecular Pharmacology, 2009, 76, 1082-1093.	1.0	75
180	DREADDs: novel tools for drug discovery and development. Drug Discovery Today, 2014, 19, 469-473.	3.2	75

#	Article	IF	Citations
181	Low nNOS protein in the locus coeruleus in major depression. Journal of Neurochemistry, 2004, 91, 1057-1066.	2.1	74
182	Pimavanserin tartrate: a 5-HT2A inverse agonist with potential for treating various neuropsychiatric disorders. Expert Opinion on Pharmacotherapy, 2008, 9, 3251-3259.	0.9	74
183	Design, Synthesis, and Validation of a Î²-Turn Mimetic Library Targeting Proteinâ€“Protein and Peptideâ€“Receptor Interactions. Journal of the American Chemical Society, 2011, 133, 10184-10194.	6.6	74
184	Atypical antipsychotic drug actions: unitary or multiple mechanisms for â€˜atypicalityâ€™?. Clinical Neuroscience Research, 2003, 3, 108-117.	0.8	73
185	Molecular Determinants for the Interaction of the Valvulopathic Anorexigen Norfenfluramine with the 5-HT2B Receptor. Molecular Pharmacology, 2005, 68, 20-33.	1.0	73
186	Novel Diketopiperazine Enhances Motor and Cognitive Recovery after Traumatic Brain Injury in Rats and Shows NeuroprotectionIn VitroandIn Vivo. Journal of Cerebral Blood Flow and Metabolism, 2003, 23, 342-354.	2.4	72
187	Marine Algal Toxin Azaspiracid Is an Open-State Blocker of hERG Potassium Channels. Chemical Research in Toxicology, 2012, 25, 1975-1984.	1.7	72
188	Hallucinogen actions on human brain revealed. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1820-1821.	3.3	72
189	A Simple Representation of Three-Dimensional Molecular Structure. Journal of Medicinal Chemistry, 2017, 60, 7393-7409.	2.9	72
190	Agonist high and low affinity state ratios predict drug intrinsic activity and a revised Ternary complex mechanism at serotonin 5-HT2A and 5-HT2C receptors. Synapse, 2000, 35, 144-150.	0.6	71
191	The PDZ-binding domain is essential for the dendritic targeting of 5-HT2A serotonin receptors in cortical pyramidal neurons in vitro. Neuroscience, 2003, 122, 907-920.	1.1	71
192	Antagonist Functional Selectivity: 5-HT_{2A} Serotonin Receptor Antagonists Differentially Regulate 5-HT_{2A} Receptor Protein Level In Vivo. Journal of Pharmacology and Experimental Therapeutics, 2011, 339, 99-105.	1.3	71
193	Mining the Receptorome. Journal of Biological Chemistry, 2005, 280, 5129-5132.	1.6	68
194	Engineered GPCRs as Tools to Modulate Signal Transduction. Physiology, 2008, 23, 313-321.	1.6	68
195	Life Beyond Kinases: Structure-Based Discovery of Sorafenib as Nanomolar Antagonist of 5-HT Receptors. Journal of Medicinal Chemistry, 2012, 55, 5749-5759.	2.9	68
196	VEGAS as a Platform for Facile Directed Evolution in Mammalian Cells. Cell, 2019, 178, 748-761.e17.	13.5	68
197	Characterization of Two [3H]Ketanserin Recognition Sites in Rat Striatum. Journal of Neurochemistry, 1987, 49, 1833-1838.	2.1	67
198	Screening the receptorome: an efficient approach for drug discovery and target validation. Drug Discovery Today, 2006, 11, 708-716.	3.2	67

#	Article	IF	Citations
199	Identification of HumanEther-Ã-go-goRelated Gene Modulators by Three Screening Platforms in an Academic Drug-Discovery Setting. Assay and Drug Development Technologies, 2010, 8, 727-742.	0.6	67
200	Chronic mianserin treatment decreases 5-HT2 receptor binding without altering 5-HT2 receptor mRNA levels. European Journal of Pharmacology, 1991, 207, 169-172.	2.7	66
201	Silencing Synapses with DREADDs. Neuron, 2014, 82, 723-725.	3.8	66
202	The anthelmintic praziquantel is a human serotoninergic G-protein-coupled receptor ligand. Nature Communications, 2017, 8, 1910.	5.8	66
203	Structure-Based Design, Synthesis, and Biochemical and Pharmacological Characterization of Novel Salvinorin A Analogues as Active State Probes of the Î¹-Opioid Receptor. Biochemistry, 2009, 48, 6898-6908.	1.2	65
204	Discovery of Î²2 Adrenergic Receptor Ligands Using Biosensor Fragment Screening of Tagged Wild-Type Receptor. ACS Medicinal Chemistry Letters, 2013, 4, 1005-1010.	1.3	65
205	1-(2,5-Dimethoxy-4-(trifluoromethyl)phenyl)-2-aminopropane: A Potent Serotonin 5-HT2A/2C Agonist. Journal of Medicinal Chemistry, 1994, 37, 4346-4351.	2.9	64
206	COVID-19: Famotidine, Histamine, Mast Cells, and Mechanisms. Frontiers in Pharmacology, 2021, 12, 633680.	1.6	64
207	Effect of the R(âˆ') and S(+) isomers of MDA and MDMA on phosphotidyl inositol turnover in cultured cells expressing 5-HT2A or 5-HT2C receptors. Neuroscience Letters, 1994, 177, 111-115.	1.0	63
208	The Presynaptic Component of the Serotonergic System is Required for Clozapine's Efficacy. Neuropsychopharmacology, 2011, 36, 638-651.	2.8	63
209	Distribution of serotonin 5-HT2A receptors in afferents of the rat striatum. Synapse, 2001, 39, 297-304.	0.6	62
210	Structural Determinants of G-protein Îα Subunit Selectivity by Regulator of G-protein Signaling 2 (RGS2). Journal of Biological Chemistry, 2009, 284, 19402-19411.	1.6	62
211	Serotonin-2C and -2a receptor co-expression on cells in the rat medial prefrontal cortex. Neuroscience, 2015, 297, 22-37.	1.1	61
212	New Technologies for Elucidating Opioid Receptor Function. Trends in Pharmacological Sciences, 2016, 37, 279-289.	4.0	61
213	The activities of drug inactive ingredients on biological targets. Science, 2020, 369, 403-413.	6.0	61
214	Antiseizure Activity of Novel Î³-Aminobutyric Acid (A) Receptor Subtype-Selective Benzodiazepine Analogues in Mice and Rat Models. Journal of Medicinal Chemistry, 2009, 52, 1795-1798.	2.9	60
215	SAR of psilocybin analogs: Discovery of a selective 5-HT2C agonist. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 4555-4559.	1.0	59
216	Fluorinated Diaryl Sulfides as Serotonin Transporter Ligands:Â Synthesis, Structureâ€'Activity Relationship Study, and in Vivo Evaluation of Fluorine-18-Labeled Compounds as PET Imaging Agents. Journal of Medicinal Chemistry, 2005, 48, 2559-2570.	2.9	59

#	Article	IF	Citations
217	Engineered G-protein coupled receptors are powerful tools to investigate biological processes and behaviors. Frontiers in Molecular Neuroscience, 2009, 2, 16.	1.4	59
218	The TLQP-21 Peptide Activates the G-Protein-Coupled Receptor C3aR1 via a Folding-upon-Binding Mechanism. Structure, 2014, 22, 1744-1753.	1.6	59
219	Biased ligands at opioid receptors: Current status and future directions. Science Signaling, 2021, 14, .	1.6	58
220	Behavioral and Physiological Effects of a Novel Kappa-Opioid Receptor-Based DREADD in Rats. Neuropsychopharmacology, 2016, 41, 402-409.	2.8	56
221	G protein-coupled receptor (GPCR) trafficking in the central nervous system: relevance for drugs of abuse. Drug and Alcohol Dependence, 1998, 51, 73-85.	1.6	55
222	The Interaction of a Constitutively Active Arrestin with the Arrestin-Insensitive 5-HT2AReceptor Induces Agonist-Independent Internalization. Molecular Pharmacology, 2003, 63, 961-972.	1.0	55
223	Anxiolytic-like effects of 8-acetylene imidazobenzodiazepines in a rhesus monkey conflict procedure. Neuropharmacology, 2010, 59, 612-618.	2.0	55
224	Chemotype-selective Modes of Action of Î¹-Opioid Receptor Agonists. Journal of Biological Chemistry, 2013, 288, 34470-34483.	1.6	55
225	Salvinorin A: A novel and highly selective Î¹-opioid receptor agonist. Life Sciences, 2004, 75, 2615-2619.	2.0	54
226	Selective 5-Hydroxytryptamine 2C Receptor Agonists Derived from the Lead Compound Tranylcypromine: Identification of Drugs with Antidepressant-Like Action. Journal of Medicinal Chemistry, 2009, 52, 1885-1902.	2.9	54
227	Structural insights into the extracellular recognition of the human serotonin 2B receptor by an antibody. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8223-8228.	3.3	54
228	Phorbol esters inhibit alpha1-adrenergic receptor-stimulated phosphoinositide hydrolysis and contraction in rat aorta: Evidence for a link between vascular contraction and phosphoinositide turnover. Biochemical and Biophysical Research Communications, 1986, 134, 970-974.	1.0	53
229	Massively Parallel Screening of the Receptorome. Combinatorial Chemistry and High Throughput Screening, 2008, 11, 420-426.	0.6	53
230	A structure-affinity study of the binding of 4-substituted analogs of 1-(2,5-dimethoxyphenyl)-2-aminopropane at 5-HT2 serotonin receptors. Journal of Medicinal Chemistry, 1990, 33, 1032-1036.	2.9	52
231	Improvement of Pharmacological Properties of Irreversible Thyroid Receptor Coactivator Binding Inhibitors. Journal of Medicinal Chemistry, 2009, 52, 3892-3901.	2.9	51
232	Irving Page Lecture: 5-HT2A serotonin receptor biology: Interacting proteins, kinases and paradoxical regulation. Neuropharmacology, 2011, 61, 348-354.	2.0	51
233	Structures of the human dopamine D3 receptor-Gi complexes. Molecular Cell, 2021, 81, 1147-1159.e4.	4.5	51
234	A chemical-genetic approach for precise spatio-temporal control of cellular signaling. Molecular BioSystems, 2010, 6, 1376.	2.9	50

#	Article	IF	Citations
235	Securinine, a Myeloid Differentiation Agent with Therapeutic Potential for AML. PLoS ONE, 2011, 6, e21203.	1.1	50
236	GÎ±-Subunits Differentially Alter the Conformation and Agonist Affinity of Î¼-Opioid Receptors. Biochemistry, 2008, 47, 1567-1578.	1.2	49
237	Discovery of G Protein-Biased D2 Dopamine Receptor Partial Agonists. Journal of Medicinal Chemistry, 2016, 59, 10601-10618.	2.9	49
238	Rat Brain Protein Kinase C: Purification, Antibody Production, and Quantification in Discrete Regions of Hippocampus. Journal of Neurochemistry, 1989, 52, 215-221.	2.1	48
239	p90 ribosomal S6 kinase 2 exerts a tonic brake on G protein-coupled receptor signaling. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4717-4722.	3.3	48
240	Discovery and Characterization of Novel GPR39 Agonists Allosterically Modulated by Zinc. Molecular Pharmacology, 2016, 90, 726-737.	1.0	48
241	Mechanism of dopamine binding and allosteric modulation of the human D1 dopamine receptor. Cell Research, 2021, 31, 593-596.	5.7	48
242	LSD-stimulated behaviors in mice require Î²-arrestin 2 but not Î²-arrestin 1. Scientific Reports, 2021, 11, 17690.	1.6	47
243	1,2,3,4-Tetrahydrocarbazoles as 5-HT6 serotonin receptor ligands. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 1961-1964.	1.0	46
244	Insights into the regulation of 5-HT2A serotonin receptors by scaffolding proteins and kinases. Neuropharmacology, 2008, 55, 961-968.	2.0	45
245	Molecular pharmacology of metabotropic receptors targeted by neuropsychiatric drugs. Nature Structural and Molecular Biology, 2019, 26, 535-544.	3.6	45
246	Identification of a butyrophenone analog as a potential atypical antipsychotic agent: 4-[4-(4-Chlorophenyl)-1,4-diazepan-1-yl]-1-(4-fluorophenyl)butan-1-one. Bioorganic and Medicinal Chemistry, 2008, 16, 7291-7301.	1.4	44
247	The Neurotensin Agonist PD149163 Increases Fos Expression in the Prefrontal Cortex of the Rat. Neuropsychopharmacology, 2004, 29, 1878-1888.	2.8	43
248	Binding of isotryptamines and indenes at h5-HT6 serotonin receptors. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 1987-1991.	1.0	43
249	Novel positive allosteric modulators of GABAA receptors: Do subtle differences in activity at Î±1 plus Î±5 versus Î±2 plus Î±3 subunits account for dissimilarities in behavioral effects in rats?. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2010, 34, 376-386.	2.5	43
250	Synthesis of a Library of Complex Macrodiolides Employing Cyclodimerization of Hydroxy Esters. ACS Combinatorial Science, 2005, 7, 673-681.	3.3	42
251	N-Methylacetamide Analog of Salvinorin A: A Highly Potent and Selective Î¼-Opioid Receptor Agonist with Oral Efficacy. Journal of Pharmacology and Experimental Therapeutics, 2008, 324, 188-195.	1.3	42
252	Chemocentric Informatics Approach to Drug Discovery: Identification and Experimental Validation of Selective Estrogen Receptor Modulators as Ligands of 5-Hydroxytryptamine-6 Receptors and as Potential Cognition Enhancers. Journal of Medicinal Chemistry, 2012, 55, 5704-5719.	2.9	42

#	Article	IF	Citations
253	Structure-Based Discovery of New Antagonist and Biased Agonist Chemotypes for the Kappa Opioid Receptor. Journal of Medicinal Chemistry, 2017, 60, 3070-3081.	2.9	42
254	5-HT2C Agonists Modulate Schizophrenia-Like Behaviors in Mice. Neuropsychopharmacology, 2017, 42, 2163-2177.	2.8	42
255	Synthesis, Pharmacological Characterization, and Structureâ€“Activity Relationship Studies of Small Molecular Agonists for the Orphan GPR88 Receptor. ACS Chemical Neuroscience, 2014, 5, 576-587.	1.7	41
256	DREADDs in Drosophila: A Pharmacogenetic Approach for Controlling Behavior, Neuronal Signaling, and Physiology in the Fly. Cell Reports, 2013, 4, 1049-1059.	2.9	40
257	Controlling opioid receptor functional selectivity by targeting distinct subpockets of the orthosteric site. ELife, 2021, 10, .	2.8	40
258	Identification of Two Serine Residues Essential for Agonist-Induced 5-HT2AReceptor Desensitizationâ€. Biochemistry, 2003, 42, 10853-10862.	1.2	39
259	SK&F 83822 distinguishes adenylyl cyclase from phospholipase C-coupled dopamine D1-like receptors: behavioural topography. European Journal of Pharmacology, 2004, 486, 273-280.	1.7	39
260	Screening the receptorome reveals molecular targets responsible for drug-induced side effects: focus on â€˜fenâ€“phenâ€™. Expert Opinion on Drug Metabolism and Toxicology, 2005, 1, 377-387.	1.5	39
261	Quantitative Analysis of Focused A-To-I RNA Editing Sites by Ultra-High-Throughput Sequencing in Psychiatric Disorders. PLoS ONE, 2012, 7, e43227.	1.1	39
262	Synthesis and receptor assay of aromaticâ€“ethynylâ€“aromatic derivatives with potent mGluR5 antagonist activity. Bioorganic and Medicinal Chemistry, 2005, 13, 197-209.	1.4	38
263	Development, Validation, and Use of Quantitative Structureâ€’Activity Relationship Models of 5-Hydroxytryptamine (2B) Receptor Ligands to Identify Novel Receptor Binders and Putative Valvulopathic Compounds among Common Drugs. Journal of Medicinal Chemistry, 2010, 53, 7573-7586.	2.9	38
264	Ribosomal S6 Kinase 2 Directly Phosphorylates the 5-Hydroxytryptamine 2A (5-HT2A) Serotonin Receptor, Thereby Modulating 5-HT2A Signaling. Journal of Biological Chemistry, 2009, 284, 5557-5573.	1.6	37
265	Assessing serotonin receptor mRNA editing frequency by a novel ultra high-throughput sequencing method. Nucleic Acids Research, 2010, 38, e118-e118.	6.5	37
266	Ïƒ1 receptor ligands control a switch between passive and active threat responses. Nature Chemical Biology, 2016, 12, 552-558.	3.9	37
267	Stereospecific opiate-binding sites occur in coated vesicles. Journal of Neuroscience, 1985, 5, 3010-3015.	1.7	36
268	Effects of a phorbol ester on rat aortic contraction and calcium influx in the presence and absence of BAY k 8644. European Journal of Pharmacology, 1987, 144, 185-191.	1.7	36
269	Binding of Serotonin and N1-Benzenesulfonyltryptamine-Related Analogs at Human 5-HT6 Serotonin Receptors: Receptor Modeling Studies. Journal of Medicinal Chemistry, 2008, 51, 603-611.	2.9	36
270	An analysis of the synthetic tryptamines AMT and 5-MeO-DALT: Emerging â€˜Novel Psychoactive Drugsâ€™. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 3411-3415.	1.0	36

#	Article	IF	Citations
271	Biased signaling of the protonâ€sensing receptor OGR1 by benzodiazepines. FASEB Journal, 2018, 32, 862-874.	0.2	36
272	Why Mice Are Neither Miniature Humans nor Small Rats: A Cautionary Tale Involving 5-Hydroxytryptamine-6 Serotonin Receptor Species Variants: Fig. 1.. Molecular Pharmacology, 2003, 64, 1277-1278.	1.0	35
273	Binding of Typical and Atypical Antipsychotic Drugs to Multiple Neurotransmitter Receptors. Advances in Pharmacology, 1997, 42, 482-485.	1.2	34
274	Potential Modes of Interaction of 9-Aminomethyl-9,10-dihydroanthracene (AMDA) Derivatives with the 5-HT_{2A} Receptor: A Ligand Structure-Affinity Relationship, Receptor Mutagenesis and Receptor Modeling Investigation. Journal of Medicinal Chemistry, 2008, 51, 6808-6828.	2.9	34
275	The Medicinal Chemistry of 5-HT6 Receptor Ligands with a Focus on Arylsulfonyltryptamine Analogs. Current Topics in Medicinal Chemistry, 2010, 10, 579-595.	1.0	34
276	Intestinal Epithelial Cellâ€"Derived Î¼-Opioid Signaling Protects against Ischemia Reperfusion Injury through PI3K Signaling. American Journal of Pathology, 2013, 182, 776-785.	1.9	34
277	Chemogeneticsâ€"A Transformational and Translational Platform. JAMA Neurology, 2015, 72, 1361.	4.5	34
278	Insights into the structure and function of 5-HT2familyserotonin receptors reveal novel strategies for therapeutic target development. Expert Opinion on Therapeutic Targets, 2001, 5, 685-695.	1.5	33
279	Rational design, synthesis, and biological evaluation of rigid pyrrolidone analogues as potential inhibitors of prostate cancer cell growth. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 955-959.	1.0	33
280	Arresting serotonin. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 831-832.	3.3	33
281	Genetic Deletion of p90 Ribosomal S6 Kinase 2 Alters Patterns of 5-Hydroxytryptamine_{2A} Serotonin Receptor Functional Selectivity. Molecular Pharmacology, 2010, 77, 327-338.	1.0	33
282	High-throughput identification of G protein-coupled receptor modulators through affinity mass spectrometry screening. Chemical Science, 2018, 9, 3192-3199.	3.7	33
283	Structural Insights Accelerate the Discovery of Opioid Alternatives. Annual Review of Biochemistry, 2021, 90, 739-761.	5.0	33
284	A Novel Mitragynine Analog with Low-Efficacy Mu Opioid Receptor Agonism Displays Antinociception with Attenuated Adverse Effects. Journal of Medicinal Chemistry, 2021, 64, 13873-13892.	2.9	33
285	Prostaglandins activate phosphoinositide metabolism in rat aorta. European Journal of Pharmacology, 1987, 136, 325-332.	1.7	32
286	Production and characterization of a specific 5-HT2 receptor antibody. Brain Research, 1993, 615, 113-120.	1.1	32
287	CELL BIOLOGY: A Last GASP for GPCRs?. Science, 2002, 297, 529-531.	6.0	32
288	Schizophrenia risk gene CAV1 is both pro-psychotic and required for atypical antipsychotic drug actions in vivo. Translational Psychiatry, 2011, 1, e33-e33.	2.4	32

#	Article	IF	Citations
289	Multi-receptor drug design: Haloperidol as a scaffold for the design and synthesis of atypical antipsychotic agents. Bioorganic and Medicinal Chemistry, 2012, 20, 1291-1297.	1.4	32
290	N1-Benzenesulfonylgramine and N1-benzenesulfonylskatole: novel 5-HT6 receptor ligand templates. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 3355-3359.	1.0	31
291	Functionalization at position 3 of the phenyl ring of the potent mGluR5 noncompetitive antagonists MPEP. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 945-949.	1.0	31
292	Convergent Synthesis of Complex Diketopiperazines Derived from Pipecolic Acid Scaffolds and Parallel Screening against GPCR Targets. Journal of Organic Chemistry, 2006, 71, 8934-8945.	1.7	31
293	Differential Helical Orientations among Related G Protein-coupled Receptors Provide a Novel Mechanism for Selectivity. Journal of Biological Chemistry, 2007, 282, 3146-3156.	1.6	31
294	Optimization of 2-Phenylcyclopropylmethylamines as Selective Serotonin 2C Receptor Agonists and Their Evaluation as Potential Antipsychotic Agents. Journal of Medicinal Chemistry, 2015, 58, 1992-2002.	2.9	31
295	Selectivity Challenges in Docking Screens for GPCR Targets and Antitargets. Journal of Medicinal Chemistry, 2018, 61, 6830-6845.	2.9	31
296	Microsomal Opiate Receptors: Characterization of Smooth Microsomal and Synaptic Membrane Opiate Receptors. Journal of Neurochemistry, 1984, 42, 1677-1684.	2.1	30
297	Synthesis and receptor profiling ofStemonaalkaloid analogues reveal a potent class of sigma ligands. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6727-6732.	3.3	30
298	A Miniaturized Screen of a Schistosoma mansoni Serotonergic G Protein-Coupled Receptor Identifies Novel Classes of Parasite-Selective Inhibitors. PLoS Pathogens, 2016, 12, e1005651.	2.1	30
299	Synthesis and binding studies of 2-arylapomorphines. Organic and Biomolecular Chemistry, 2005, 3, 4077.	1.5	29
300	Binding of Sulfonyl-Containing Arylalkylamines at Human 5-HT6Serotonin Receptors. Journal of Medicinal Chemistry, 2006, 49, 5217-5225.	2.9	29
301	Deorphanization of Novel Peptides and Their Receptors. AAPS Journal, 2010, 12, 378-384.	2.2	29
302	Receptor Reserve Moderates Mesolimbic Responses to Opioids in a Humanized Mouse Model of the OPRM1 A118G Polymorphism. Neuropsychopharmacology, 2015, 40, 2614-2622.	2.8	29
303	Molecular Determinants in the Second Intracellular Loop of the 5-Hydroxytryptamine-1A Receptor for G-Protein Coupling. Molecular Pharmacology, 2006, 69, 1518-1526.	1.0	28
304	In Vitro and In Vivo Characterization of the Alkaloid Nuciferine. PLoS ONE, 2016, 11, e0150602.	1.1	28
305	Design and Discovery of Functionally Selective Serotonin 2C (5-HT_{2C}) Receptor Agonists. Journal of Medicinal Chemistry, 2016, 59, 9866-9880.	2.9	28
306	Structure-based discovery of potent and selective melatonin receptor agonists. ELife, 2020, 9, .	2.8	28

#	Article	IF	Citations
307	The postnatal development of VIP binding sites in rat forebrain and hindbrain. Peptides, 1985, 6, 27-30.	1.2	27
308	Convenient synthesis and in vitro pharmacological activity of 2-thioanalogs of salvinorins A and B. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 2229-2232.	1.0	27
309	Selective Î¹ Opioid Antagonists nor-BNI, GNTI and JDTic Have Low Affinities for Non-Opioid Receptors and Transporters. PLoS ONE, 2013, 8, e70701.	1.1	27
310	Structural determinants for high 5-HT 2A receptor affinity of spiro[9,10-dihydroanthracene]-9,3 â€² -pyrrolidine (SpAMDA). Bioorganic and Medicinal Chemistry Letters, 2004, 14, 2279-2283.	1.0	26
311	1-(1-Naphthyl)piperazine as a novel template for 5-HT6 serotonin receptor ligands. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 1707-1711.	1.0	26
312	Application of Quantitative Structureâ€“Activity Relationship Models of 5-HT_{1A} Receptor Binding to Virtual Screening Identifies Novel and Potent 5-HT_{1A} Ligands. Journal of Chemical Information and Modeling, 2014, 54, 634-647.	2.5	26
313	Further Advances in Optimizing (2-Phenylcyclopropyl)methylamines as Novel Serotonin 2C Agonists: Effects on Hyperlocomotion, Prepulse Inhibition, and Cognition Models. Journal of Medicinal Chemistry, 2016, 59, 578-591.	2.9	26
314	Protamine is an antagonist of apelin receptor, and its activity is reversed by heparin. FASEB Journal, 2017, 31, 2507-2519.	0.2	26
315	Modulation of phosphatidylinositol-4, 5-bisphosphate hydrolysis in rat aorta by guanine nucleotides, calcium and magnesium. Life Sciences, 1987, 41, 629-634.	2.0	25
316	Binding of amine-substituted N1-benzenesulfonylindoles at human 5-HT6 serotonin receptors. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 5298-5302.	1.0	25
317	Bis-spirolabdane Diterpenoids from Leonotis nepetaefolia. Journal of Natural Products, 2012, 75, 728-734.	1.5	25
318	Conformational Ensembles in GPCR Activation. Cell, 2013, 152, 385-386.	13.5	25
319	HTS and Rational Drug Design to Generate a Class of 5â€HT_{2C}â€Selective Ligands for Possible Use in Schizophrenia.. ChemMedChem, 2010, 5, 1221-1225.	1.6	24
320	Identification of a new selective dopamine D4 receptor ligand. Bioorganic and Medicinal Chemistry, 2014, 22, 3105-3114.	1.4	24
321	Molecular insights into psychedelic drug action. Journal of Neurochemistry, 2022, 162, 24-38.	2.1	24
322	Molecular and Cellular Mechanisms for the Polarized Sorting of Serotonin Receptors: Relevance for Genesis and Treatment of Psychosis. Critical Reviews in Neurobiology, 2004, 16, 229-236.	3.3	23
323	Benzothiazoles as probes for the 5HT1A receptor and the serotonin transporter (SERT): A search for new dual-acting agents as potential antidepressants. European Journal of Medicinal Chemistry, 2012, 53, 124-132.	2.6	23
324	Structureâ€“activity relationship studies of SYA 013, a homopiperazine analog of haloperidol. Bioorganic and Medicinal Chemistry, 2012, 20, 1671-1678.	1.4	23

#	Article	IF	Citations
325	Tuning up the right signal: chemical and genetic approaches to study GPCR functions. Current Opinion in Cell Biology, 2014, 27, 51-55.	2.6	23
326	An African-specific haplotype in MRGPRX4 is associated with menthol cigarette smoking. PLoS Genetics, 2019, 15, e1007916.	1.5	23
327	Haloperidol: towards further understanding of the structural contributions of its pharmacophoric elements at D2-like receptors. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 5739-5742.	1.0	22
328	Synthesis, structureâ€“affinity relationships, and modeling of AMDA analogs at 5-HT2A and H1 receptors: Structural factors contributing to selectivity. Bioorganic and Medicinal Chemistry, 2009, 17, 6496-6504.	1.4	22
329	N-Alkyl-octahydroisoquinolin-1-one-8-carboxamides: Selective and Nonbasic Îº-Opioid Receptor Ligands. ACS Medicinal Chemistry Letters, 2010, 1, 189-193.	1.3	22
330	Discrepancies in Kappa Opioid Agonist Binding Revealed through PET Imaging. ACS Chemical Neuroscience, 2019, 10, 384-395.	1.7	22
331	The effects of morphine on catecholamine metabolism during postnatal development. Brain Research, 1980, 197, 561-564.	1.1	21
332	Michael acceptor approach to the design of new salvinorin A-based high affinity ligands for the kappa-opioid receptor. European Journal of Medicinal Chemistry, 2014, 85, 818-829.	2.6	21
333	Engineering a region of bulk tolerance in the 5-HT2A receptor. European Journal of Medicinal Chemistry, 1999, 34, 441-447.	2.6	20
334	Interaction of chiral MS-245 analogs at h5-HT6 receptors. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3510-3513.	1.0	20
335	Ontogeny of serotonin and serotonin2A receptors in rat auditory cortex. Hearing Research, 2008, 244, 45-50.	0.9	20
336	Identification of 6-Benzylthioinosine as a Myeloid Leukemia Differentiationâ€“Inducing Compound. Cancer Research, 2008, 68, 4369-4376.	0.4	20
337	p90 Ribosomal S6 Kinase 2, a Novel GPCR Kinase, Is Required for Growth Factor-Mediated Attenuation of GPCR Signaling. Biochemistry, 2010, 49, 2657-2671.	1.2	20
338	Influence of chain length and N-alkylation on the selective serotonin receptor ligand 9-(aminomethyl)-9,10-dihydroanthracene. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 655-658.	1.0	19
339	Synthesis and Evaluation of ¹⁸F-FE-PEO in Rodents: An ¹⁸F-Labeled Full Agonist for Opioid Receptor Imaging. Journal of Nuclear Medicine, 2013, 54, 299-305.	2.8	19
340	Design and synthesis of dual 5-HT1A and 5-HT7 receptor ligands. Bioorganic and Medicinal Chemistry, 2016, 24, 3464-3471.	1.4	19
341	Discovery of N-Substituted (2-Phenylcyclopropyl)methylamines as Functionally Selective Serotonin 2C Receptor Agonists for Potential Use as Antipsychotic Medications. Journal of Medicinal Chemistry, 2017, 60, 6273-6288.	2.9	19
342	Screening the receptorome for plant-based psychoactive compounds. Life Sciences, 2005, 78, 506-511.	2.0	18

#	Article	IF	Citations
343	Generation of Designer Receptors Exclusively Activated by Designer Drugs (DREADDs) Using Directed Molecular Evolution. Current Protocols in Neuroscience, 2010, 50, Unit 4.33.	2.6	18
344	Studies of a ubiquitous receptor family. Nature, 2012, 492, 57-57.	13.7	18
345	In Silico Molecular Comparisons of C. elegans and Mammalian Pharmacology Identify Distinct Targets That Regulate Feeding. PLoS Biology, 2013, 11, e1001712.	2.6	18
346	Î²-Fluorofentanyls Are pH-Sensitive Mu Opioid Receptor Agonists. ACS Medicinal Chemistry Letters, 2019, 10, 1353-1356.	1.3	18
347	Inactive and active state structures template selective tools for the human 5-HT5A receptor. Nature Structural and Molecular Biology, 2022, 29, 677-687.	3.6	18
348	What's All the RAVE about Receptor Internalization?. Neuron, 1999, 23, 629-631.	3.8	17
349	Search for Î±3Î²2/3Î³2 subtype selective ligands that are stable on human liver microsomes. Bioorganic and Medicinal Chemistry, 2013, 21, 93-101.	1.4	17
350	Sh-I-048A, an in vitro non-selective super-agonist at the benzodiazepine site of GABAA receptors: The approximated activation of receptor subtypes may explain behavioral effects. Brain Research, 2014, 1554, 36-48.	1.1	17
351	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
352	Microsomal opiate receptors differ from synaptic membrane receptors in proteolytic sensitivity. Brain Research, 1982, 250, 101-109.	1.1	16
353	Geometryâ^'Affinity Relationships of the Selective Serotonin Receptor Ligand 9-(Aminomethyl)-9,10-dihydroanthracene. Journal of Medicinal Chemistry, 2002, 45, 1656-1664.	2.9	16
354	Allosteric Antipsychotics: M4 Muscarinic Potentiators as Novel Treatments for Schizophrenia. Neuropsychopharmacology, 2010, 35, 851-852.	2.8	16
355	HTS navigator: freely accessible cheminformatics software for analyzing high-throughput screening data. Bioinformatics, 2014, 30, 588-589.	1.8	16
356	Salvinorin <scp>A</scp> analogues <scp>PR</scp>â€37 and <scp>PR</scp>â€38 attenuate compound 48/80â€induced itch responses in mice. British Journal of Pharmacology, 2015, 172, 4331-4341.	2.7	16
357	A promising chemical series of positive allosteric modulators of the Î¼-opioid receptor that enhance the antinociceptive efficacy of opioids but not their adverse effects. Neuropharmacology, 2021, 195, 108673.	2.0	16
358	Exploring the relationship between binding modes of 9-(aminomethyl)-9,10-dihydroanthracene and cyproheptadine analogues at the 5-HT2A serotonin receptor. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 563-566.	1.0	15
359	Autoxidation of Salvinorin A under Basic Conditions. Journal of Organic Chemistry, 2005, 70, 10057-10061.	1.7	15
360	Screening the Receptorome Yields Validated Molecular Targets for Drug Discovery. Current Pharmaceutical Design, 2006, 12, 1785-1795.	0.9	15

#	Article	IF	Citations
361	Rational Drug Design Leading to the Identification of a Potent 5-HT_{2C} Agonist Lacking 5-HT_{2B} Activity. ACS Medicinal Chemistry Letters, 2011, 2, 929-932.	1.3	15
362	Design and synthesis of (2-(5-chloro-2,2-dimethyl-2,3-dihydrobenzofuran-7-yl)cyclopropyl)methanamine as a selective serotonin 2C agonist. Tetrahedron Letters, 2015, 56, 3420-3422.	0.7	15
363	Defining Structureâ€"Functional Selectivity Relationships (SFSR) for a Class of Non-Catechol Dopamine D₁ Receptor Agonists. Journal of Medicinal Chemistry, 2019, 62, 3753-3772.	2.9	15
364	D₂ Dopamine Receptor G Protein-Biased Partial Agonists Based on Cariprazine. Journal of Medicinal Chemistry, 2019, 62, 4755-4771.	2.9	15
365	A Structural Understanding of Class B GPCR Selectivity and Activation Revealed. Structure, 2020, 28, 277-279.	1.6	15
366	Demonstration of a slowly dissociating form of bovine hippocampal synaptic membrane opiate receptors. European Journal of Pharmacology, 1982, 83, 47-53.	1.7	14
367	BAY k 8644, a calcium channel agonist, reverses hypotension in endotoxin-shocked rats. European Journal of Pharmacology, 1986, 130, 169-175.	1.7	14
368	Interaction of N1-unsubstituted and N1-benzenesulfonyltryptamines at h5-HT6 receptors. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 5832-5835.	1.0	14
369	RNA interference screen for RGS protein specificity at muscarinic and protease-activated receptors reveals bidirectional modulation of signaling. American Journal of Physiology - Cell Physiology, 2010, 299, C654-C664.	2.1	14
370	Single Amino Acid Variation Underlies Species-Specific Sensitivity to Amphibian Skin-Derived Opioid-like Peptides. Chemistry and Biology, 2015, 22, 764-775.	6.2	14
371	Psilocybin for depression and anxiety associated with life-threatening illnesses. Journal of Psychopharmacology, 2016, 30, 1209-1210.	2.0	14
372	How structure informs and transforms chemogenetics. Current Opinion in Structural Biology, 2019, 57, 9-16.	2.6	14
373	Fentanyl-related designer drugs W-18 and W-15 lack appreciable opioid activity in vitro and in vivo. JCI Insight, 2017, 2, .	2.3	14
374	Ontogeny of benzomorphan-selective (Îº) sites: A computerized analysis. Life Sciences, 1983, 33, 235-238.	2.0	13
375	9-(Aminomethyl)-9,10-dihydroanthracene is a novel and unlikely 5-HT2A receptor antagonist. European Journal of Pharmacology, 1999, 380, R5-R7.	1.7	13
376	Further studies on the binding of N1-substituted tryptamines at h5-HT6 receptors. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 1691-1694.	1.0	13
377	Synthesis and evaluation of ligands for D2-like receptors: The role of common pharmacophoric groups. Bioorganic and Medicinal Chemistry, 2009, 17, 1716-1723.	1.4	13
378	Kappa-opioid receptor-selective dicarboxylic ester-derived salvinorin A ligands. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 2860-2862.	1.0	13

#	Article	IF	Citations
379	Further evaluation of the tropane analogs of haloperidol. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4294-4297.	1.0	13
380	Contributions of molecular biology to antipsychotic drug discovery: promises fulfilled or unfulfilled?. Dialogues in Clinical Neuroscience, 2006, 8, 303-309.	1.8	13
381	The in vitro pharmacology of the Î²-adrenergic receptor pet ligand (s)-fluorocarazolol reveals high affinity for cloned Î²-adrenergic receptors and moderate affinity for the human 5-HT 1A receptor. Psychopharmacology, 2001, 157, 111-114.	1.5	12
382	Binding of methoxy-substituted N1-benzenesulfonylindole analogs at human 5-HT6 serotonin receptors. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 3793-3796.	1.0	12
383	Bioisosteric Modification of Salvinorin A, a Potent and Selective Kappa-Opioid Receptor Agonist. Arzneimittelforschung, 2006, 56, 269-275.	0.5	12
384	CoMFA analyses of C-2 position Salvinorin A analogs at the kappa-opioid receptor provides insights into epimer selectivity. Journal of Molecular Graphics and Modelling, 2010, 28, 612-625.	1.3	12
385	Functional SNPs in Genes Encoding the 5-HT_{2A}Receptor Modify the Affinity and Potency of Several Atypical Antipsychotic Drugs. Biological Research for Nursing, 2011, 13, 55-60.	1.0	12
386	Aryl Biphenylâ€3â€ylmethylpiperazines as 5â€HT₇ Receptor Antagonists. ChemMedChem, 2013, 8, 1855-1864.	1.6	12
387	Discovery of aryl-biphenyl-2-ylmethylpiperazines as novel scaffolds for 5-HT7 ligands and role of the aromatic substituents in binding to the target receptor. Bioorganic and Medicinal Chemistry, 2013, 21, 2568-2576.	1.4	12
388	Subversion of Serotonin Receptor Signaling in Osteoblasts by Kynurenine Drives Acute Myeloid Leukemia. Cancer Discovery, 2022, 12, 1106-1127.	7.7	12
389	Synthesis of potent and selective serotonin 5-HT1B receptor ligands. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 4786-4789.	1.0	11
390	Receptor screening technologies in the evaluation of Amazonian ethnomedicines with potential applications to cognitive deficits. Journal of Ethnopharmacology, 2011, 134, 475-492.	2.0	11
391	Psychotomimetic Effects of Kappa Opioid Receptor Agonists. Biological Psychiatry, 2012, 72, 797-798.	0.7	11
392	Differential Roles of Extracellular Histidine Residues of GPR68 for Proton-Sensing and Allosteric Modulation by Divalent Metal Ions. Biochemistry, 2020, 59, 3594-3614.	1.2	11
393	Synthesis of potent and selective dopamine D4 antagonists as candidate radioligands. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 1375-1377.	1.0	10
394	Short synthesis of a novel class of salvinorin A analogs with hemiacetalic structure. Tetrahedron Letters, 2008, 49, 937-940.	0.7	10
395	Chemical Modifications on 4-Arylpiperazine-Ethyl Carboxamide Derivatives Differentially Modulate Affinity for 5-HT1A, D4.2, and Î±2A Receptors: Synthesis and In Vitro Radioligand Binding Studies. Australian Journal of Chemistry, 2010, 63, 56.	0.5	10
396	Synthesis and biological evaluation of new salvinorin A analogues incorporating natural amino acids. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 160-163.	1.0	10

#	Article	IF	Citations
397	4-Aminoethylpiperazinyl aryl ketones with 5-HT1A/5-HT7 selectivity. Bioorganic and Medicinal Chemistry, 2012, 20, 1139-1148.	1.4	10
398	Molecular interactions between general anesthetics and the 5HT_{2B}receptor. Journal of Biomolecular Structure and Dynamics, 2015, 33, 211-218.	2.0	10
399	Far away from the lamppost. PLoS Biology, 2018, 16, e3000067.	2.6	10
400	The effects of tetrahydroisoquinolinecarboxylic acids on tyrosine 3-monooxygenase. Archives of Biochemistry and Biophysics, 1981, 209, 620-627.	1.4	9
401	5-Hydroxytryptamine Uptake and Imipramine Binding Sites in Neurotumor NCB-20 Cells. Journal of Neurochemistry, 1985, 45, 920-925.	2.1	9
402	IRAS Splice Variants. Annals of the New York Academy of Sciences, 2003, 1009, 419-426.	1.8	9
403	Synthesis and in vitro pharmacology of novel heterocyclic muscarinic ligands. Il Farmaco, 2003, 58, 739-748.	0.9	9
404	Receptor systems: Will mining the receptorome yield novel targets for pharmacotherapy?. , 2005, 108, 59-64.		9
405	Methoxy-substituted 9-aminomethyl-9,10-dihydroanthracene (AMDA) derivatives exhibit differential binding affinities at the 5-HT2A receptor. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 5268-5271.	1.0	9
406	Novel oxotremorine-related heterocyclic derivatives: Synthesis and in vitro pharmacology at the muscarinic receptor subtypes. Bioorganic and Medicinal Chemistry, 2007, 15, 7626-7637.	1.4	8
407	Synthesis and in vitro binding studies of substituted piperidine naphthamides. Part I: Influence of the substitution on the basic nitrogen and the position of the amide on the affinity for D2L, D4.2, and 5-HT2A receptors. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 1565-1569.	1.0	8
408	N-Tetrahydrothiochromenoisoxazole-1-carboxamides as selective antagonists of cloned human 5-HT2B. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 5488-5490.	1.0	8
409	Molecular Biology and Genomic Organization of G Protein-Coupled Serotonin Receptors. , 2006, , 1-38.		8
410	A BIOCHEMICAL MECHANISM FOR VASODILATION IN SEPTIC SHOCK. Critical Care Medicine, 1987, 15, 440.	0.4	7
411	5-ZATRYPTAMINE ANALOGS AS h5-HT6 SEROTONIN RECEPTOR LIGANDS. Medicinal Chemistry Research, 2005, 14, 1-18.	1.1	7
412	9-Aminomethyl-9,10-dihydroanthracene (AMDA) analogs as structural probes for steric tolerance in 5-HT2A and H1 receptor binding sites. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 935-938.	1.0	7
413	Impossible or Merely Difficult? Two Grand Challenges from a Biologistâ€™s Perspective. ACS Medicinal Chemistry Letters, 2013, 4, 316-318.	1.3	7
414	Re-exploring the N-phenylpicolinamide derivatives to develop mGlu4 ligands with improved affinity and in vitro microsomal stability. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3956-3960.	1.0	7

#	Article	IF	Citations
415	Atypical Antipsychotic Drugs: Clinical and Preclinical Studies. Handbook of Experimental Pharmacology, 1996, , 77-115.	0.9	7
416	Immunohistochemical distribution of Î²-protein kinase C in rat hippocampus determined with an antibody against a synthetic peptide sequence. Brain Research Bulletin, 1989, 22, 893-897.	1.4	6
417	Spiro[9,10-dihydroanthracene]-9,3â€²-pyrrolidineâ€”a structurally unique tetracyclic 5-HT2A receptor antagonist. European Journal of Pharmacology, 2003, 482, 335-337.	1.7	6
418	Evaluation of the eutomer of 4-{3-(4-chlorophenyl)-3-hydroxypyrrolidin-1-yl}-1-(4-fluorophenyl)butan-1-one, {(+)-SYA 09}, a pyrrolidine analog of haloperidol. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 3219-3223.	1.0	6
419	Synthesis and in vitro binding studies of substituted piperidine naphthamides. Part II: Influence of the substitution on the benzyl moiety on the affinity for D2L, D4.2, and 5-HT2A receptors. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 1570-1574.	1.0	6
420	4Î²-Methyl-5-(3-hydroxyphenyl)morphan Opioid Agonist and Partial Agonist Derived from a 4Î²-Methyl-5-(3-hydroxyphenyl)morphan Pure Antagonist. Journal of Medicinal Chemistry, 2013, 56, 8826-8833.	2.9	6
421	Agonist and antagonist TRUPATH assays for G protein-coupled receptors. STAR Protocols, 2022, 3, 101259.	0.5	6
422	TRUPATH: An Open-Source Biosensor Platform for Interrogating the GPCR Transducerome. Methods in Molecular Biology, 2022, , 185-195.	0.4	6
423	Reply: H1-histamine Receptor Affinity Predicts Short-term Weight Gain for Typical and Atypical Antipsychotic Drugs. Neuropsychopharmacology, 2003, 28, 2210-2211.	2.8	5
424	Developing selectively nonselective drugs for treating CNS disorders. Drug Discovery Today: Therapeutic Strategies, 2006, 3, 413-419.	0.5	4
425	An alerting structure: human orexin receptor 1. Nature Structural and Molecular Biology, 2016, 23, 265-266.	3.6	4
426	Phosphoproteomics Illuminates Opioid Actions. Biochemistry, 2018, 57, 5505-5506.	1.2	4
427	G-Protein Peptidomimetics Stabilize GPCR Active State Conformations. Trends in Pharmacological Sciences, 2021, 42, 429-430.	4.0	4
428	High-Dose Olanzapine for Treatment-Resistant Schizophrenia. Journal of Clinical Psychiatry, 2008, 69, 176-177.	1.1	4
429	Development of CNS multi-receptor ligands: Modification of known D2 pharmacophores. Bioorganic and Medicinal Chemistry, 2016, 24, 3671-3679.	1.4	3
430	Design of fluorinated cyclopropane derivatives of 2-phenylcyclopropylmethylamine leading to identification of a selective serotonin 2C (5-HT2C) receptor agonist without 5-HT2B agonism. European Journal of Medicinal Chemistry, 2019, 182, 111626.	2.6	3
431	Structure and Function Reveal Insights in the Pharmacology of 5-HT Receptor Subtypes. , 2006, , 39-58.		3
432	Polymorphic and Posttranscriptional Modifications of 5-HT Receptor Structure. Receptors, 2006, , 59-90.	0.2	3

#	Article	IF	Citations
433	Ring substituted analogues of 5-aminomethyl-10,11-dihydro-dibenzo[a,d]cycloheptene (AMDH): potential modes of binding to the 5-HT2A receptor. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 2565-2568.	1.0	2
434	Screening the receptorome. Journal of Psychopharmacology, 2006, 20, 41-46.	2.0	2
435	Electrifying cell receptors. Nature Nanotechnology, 2008, 3, 587-588.	15.6	2
436	A self-activating orphan receptor. Nature, 2020, 579, 35-36.	13.7	2
437	Evidence for a model of agonist-induced activation of 5-hydroxytryptamine 2A serotonin receptors that involves the disruption of a strong ionic interaction between helices 3 and 6.. Journal of Biological Chemistry, 2002, 277, 18244.	1.6	2
438	Antagonism of the 5â€HT2B receptor prevents TGFâ€beta1 effects in aortic valve fibroblasts. FASEB Journal, 2011, 25, 177.5.	0.2	2
439	l-Homocysteine Sulfinic Acid and l-Homocysteic Acid Stimulate Phosphoinositide Hydrolysis in Rat Cortical Neurons. Annals of the New York Academy of Sciences, 2003, 1003, 461-463.	1.8	1
440	Historical Overview of the Concept of Functional Selectivity. , 2009, , 3-7.		1
441	Activation mechanisms for a universal signalling protein. Nature, 2018, 557, 318-319.	13.7	1
442	The cranial windows of perception. Neuron, 2021, 109, 2499-2501.	3.8	1
443	Serotonin 5-HT2A receptors are expressed on pyramidal cells and interneurons in the rat cortex. , 1997, 27, 79.		1
444	Design of first in class bitopic ligands targeting the sodium binding pocket in opioid receptors. FASEB Journal, 2020, 34, 1-1.	0.2	1
445	Functional Evolution of Opioid Family G Protein-Coupled Receptors. Methods in Pharmacology and Toxicology, 2014, , 85-104.	0.1	1
446	NOREPINEPHRINE INCREASES PRODUCTION OF A NUCLEAR MESSAGE IN VASCULAR TISSUE. Critical Care Medicine, 1988, 16, 402.	0.4	0
447	Regulation of the internalization of the 5HT2A receptor in vitro. Schizophrenia Research, 1997, 24, 90.	1.1	0
448	Fast dissociation rates predict neither efficacy nor lack of side-effects. Nature Reviews Drug Discovery, 2004, 3, 894-894.	21.5	0
449	1,2,3,4-Tetrahydrocarbazoles as 5-HT6 Serotonin Receptor Ligands.. ChemInform, 2004, 35, no.	0.1	0
450	Structural Determinants for High 5-HT2A Receptor Affinity of Spiro[9,10-dihydroanthracene]-9,3â€²-pyrrolidine (SpAMDA).. ChemInform, 2004, 35, no.	0.1	0

#	Article	IF	Citations
451	Functionalization at Position 3 of the Phenyl Ring of the Potent mGluR5 Noncompetitive Antagonists MPEP.. ChemInform, 2005, 36, no.	0.1	0
452	1-(1-Naphthyl)piperazine as a Novel Template for 5-HT6 Serotonin Receptor Ligands.. ChemInform, 2005, 36, no.	0.1	0
453	Vision and olfaction say UNC-le to G proteins. Nature Neuroscience, 2011, 14, 805-806.	7.1	0
454	Introduction to the Biochemistry of Pain Special Issue. Biochemistry, 2021, 60, 1379-1380.	1.2	0
455	5-HT Receptor-Associated Proteins (FRAPs). Receptors, 2006, , 257-276.	0.2	0
456	Agonist induced internalization of G alpha s regulates adenylyl cyclase. FASEB Journal, 2006, 20, A694.	0.2	0
457	5-Hydroxytryptamine receptor 2A. The AFCS-nature Molecule Pages, 0, , .	0.2	0
458	A Slowly Dissociating form of Bovine Hippocampal Synaptic Membrane Opiate Receptors. , 1984, , 489-492.		0
459	Role of Phosphoinositide Hydrolysis and Protein Kinase C Activation in 5HT 2 Receptor Function in Smooth Muscle. , 1990, , 33-37.		0
460	How high resolution x-ray crystal structures of D2-like dopamine receptors can guide the development of novel subtype-selective drugs. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, SY20-4.	0.0	0
461	Illuminating the druggable GPCR-ome. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, SY27-4.	0.0	0
462	A molecular understanding of drug actions at G protein coupled receptors. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, IAL.	0.0	0
463	In vivo Efficacy of Novel Type Preferring MT 1 Melatonin Receptor Inverse Agonists in C3H/HeN Mouse Models of Chronobiological Behavior. FASEB Journal, 2020, 34, 1-1.	0.2	0
464	Novel Mechanisms of Drug Treatment in Psychiatry. , 2008, , 519-534.		0