Bryan L Roth

List of Publications by Year
in descending order

464 papers	62,650 citations	997 114 h-index	1158 229 g-index
572 all docs	572 docs citations	572 times ranked	56157 citing authors

#	Article	IF	Citations
1	Molecular insights into psychedelic drug action. Journal of Neurochemistry, 2022, 162, 24-38.	3.9	24
2	Synthon-based ligand discovery in virtual libraries of over 11 billion compounds. Nature, 2022, 601, 452-459.	27.8	153
3	Subversion of Serotonin Receptor Signaling in Osteoblasts by Kynurenine Drives Acute Myeloid Leukemia. Cancer Discovery, 2022, 12, 1106-1127.	9.4	12
4	Community guidelines for GPCR ligand bias: IUPHAR review 32. British Journal of Pharmacology, 2022, 179, 3651-3674.	5.4	84
5	Structure-Based Design of a Chemical Probe Set for the 5-HT_{5A} Serotonin Receptor. Journal of Medicinal Chemistry, 2022, 65, 4201-4217.	6.4	17
6	The promises and perils of psychedelic pharmacology for psychiatry. Nature Reviews Drug Discovery, 2022, 21, 463-473.	46.4	82
7	Agonist and antagonist TRUPATH assays for G protein-coupled receptors. STAR Protocols, 2022, 3, 101259.	1.2	6
8	TRUPATH: An Open-Source Biosensor Platform for Interrogating the GPCR Transducerome. Methods in Molecular Biology, 2022, , 185-195.	0.9	6
9	Inactive and active state structures template selective tools for the human 5-HT5A receptor. Nature Structural and Molecular Biology, 2022, 29, 677-687.	8.2	18
10	Controlling opioid receptor functional selectivity by targeting distinct subpockets of the orthosteric site. ELife, 2021, 10, .	6.0	40
11	Structural insights into the human D1 and D2 dopamine receptor signaling complexes. Cell, 2021, 184, 931-942.e18.	28.9	140
12	Mechanism of dopamine binding and allosteric modulation of the human D1 dopamine receptor. Cell Research, 2021, 31, 593-596.	12.0	48
13	Structures of the human dopamine D3 receptor-Gi complexes. Molecular Cell, 2021, 81, 1147-1159.e4.	9.7	51
14	COVID-19: Famotidine, Histamine, Mast Cells, and Mechanisms. Frontiers in Pharmacology, 2021, 12, 633680.	3.5	64
15	Biased ligands at opioid receptors: Current status and future directions. Science Signaling, 2021, 14, .	3.6	58
16	Introduction to the Biochemistry of Pain Special Issue. Biochemistry, 2021, 60, 1379-1380.	2.5	0
17	G-Protein Peptidomimetics Stabilize GPCR Active State Conformations. Trends in Pharmacological Sciences, 2021, 42, 429-430.	8.7	4
18	Structural Insights Accelerate the Discovery of Opioid Alternatives. Annual Review of Biochemistry, 2021, 90, 739-761.	11.1	33

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19	The cranial windows of perception. Neuron, 2021, 109, 2499-2501.	8.1	1
20	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.	4.1	16
21	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.	6.4	33
22	LSD-stimulated behaviors in mice require Î²-arrestin 2 but not Î²-arrestin 1. Scientific Reports, 2021, 11, 17690.	3.3	47
23	International Union of Basic and Clinical Pharmacology. CX. Classification of Receptors for 5-hydroxytryptamine; Pharmacology and Function. Pharmacological Reviews, 2021, 73, 310-520.	16.0	127
24	Structure, function and pharmacology of human itch GPCRs. Nature, 2021, 600, 170-175.	27.8	101
25	Structures of the Ïƒ2 receptor enable docking for bioactive ligand discovery. Nature, 2021, 600, 759-764.	27.8	113
26	The activities of drug inactive ingredients on biological targets. Science, 2020, 369, 403-413.	12.6	61
27	Differential Roles of Extracellular Histidine Residues of GPR68 for Proton-Sensing and Allosteric Modulation by Divalent Metal Ions. Biochemistry, 2020, 59, 3594-3614.	2.5	11
28	Structure of a Hallucinogen-Activated Gq-Coupled 5-HT2A Serotonin Receptor. Cell, 2020, 182, 1574-1588.e19.	28.9	270
29	TRUPATH, an open-source biosensor platform for interrogating the GPCR transducerome. Nature Chemical Biology, 2020, 16, 841-849.	8.0	281
30	Virtual discovery of melatonin receptor ligands to modulate circadian rhythms. Nature, 2020, 579, 609-614.	27.8	184
31	Nanobody-enabled monitoring of kappa opioid receptor states. Nature Communications, 2020, 11, 1145.	12.8	93
32	A SARS-CoV-2 protein interaction map reveals targets for drug repurposing. Nature, 2020, 583, 459-468.	27.8	3,542
33	Deschloroclozapine, a potent and selective chemogenetic actuator enables rapid neuronal and behavioral modulations in mice and monkeys. Nature Neuroscience, 2020, 23, 1157-1167.	14.8	187
34	A self-activating orphan receptor. Nature, 2020, 579, 35-36.	27.8	2
35	A Structural Understanding of Class B GPCR Selectivity and Activation Revealed. Structure, 2020, 28, 277-279.	3.3	15
36	Design of first in class bitopic ligands targeting the sodium binding pocket in opioid receptors. FASEB Journal, 2020, 34, 1-1.	0.5	1

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37	Structure-based discovery of potent and selective melatonin receptor agonists. ELife, 2020, 9, .	6.0	28
38	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.	0.5	0
39	Î²-Fluorofentanyls Are pH-Sensitive Mu Opioid Receptor Agonists. ACS Medicinal Chemistry Letters, 2019, 10, 1353-1356.	2.8	18
40	Molecular pharmacology of metabotropic receptors targeted by neuropsychiatric drugs. Nature Structural and Molecular Biology, 2019, 26, 535-544.	8.2	45
41	VEGAS as a Platform for Facile Directed Evolution in Mammalian Cells. Cell, 2019, 178, 748-761.e17.	28.9	68
42	Discovery of Human Signaling Systems: Pairing Peptides to G Protein-Coupled Receptors. Cell, 2019, 179, 895-908.e21.	28.9	157
43	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.	5.5	3
44	Harnessing Ion-Binding Sites for GPCR Pharmacology. Pharmacological Reviews, 2019, 71, 571-595.	16.0	87
45	Structural basis of ligand recognition at the human MT1 melatonin receptor. Nature, 2019, 569, 284-288.	27.8	140
46	XFEL structures of the human MT2 melatonin receptor reveal the basis of subtype selectivity. Nature, 2019, 569, 289-292.	27.8	106
47	Defining Structureâ€“Functional Selectivity Relationships (SFSR) for a Class of Non-Catechol Dopamine D₁ Receptor Agonists. Journal of Medicinal Chemistry, 2019, 62, 3753-3772.	6.4	15
48	D₂ Dopamine Receptor G Protein-Biased Partial Agonists Based on Cariprazine. Journal of Medicinal Chemistry, 2019, 62, 4755-4771.	6.4	15
49	Ultra-large library docking for discovering new chemotypes. Nature, 2019, 566, 224-229.	27.8	595
50	An African-specific haplotype in MRGPRX4 is associated with menthol cigarette smoking. PLoS Genetics, 2019, 15, e1007916.	3.5	23
51	How structure informs and transforms chemogenetics. Current Opinion in Structural Biology, 2019, 57, 9-16.	5.7	14
52	Discrepancies in Kappa Opioid Agonist Binding Revealed through PET Imaging. ACS Chemical Neuroscience, 2019, 10, 384-395.	3.5	22
53	Intraislet glucagon signaling is critical for maintaining glucose homeostasis. JCI Insight, 2019, 4, .	5.0	102
54	High-throughput identification of G protein-coupled receptor modulators through affinity mass spectrometry screening. Chemical Science, 2018, 9, 3192-3199.	7.4	33

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55	Unexplored therapeutic opportunities in the human genome. Nature Reviews Drug Discovery, 2018, 17, 317-332.	46.4	263
56	5-HT2C Receptor Structures Reveal the Structural Basis of GPCR Polypharmacology. Cell, 2018, 172, 719-730.e14.	28.9	185
57	Structure of the D2 dopamine receptor bound to the atypical antipsychotic drug risperidone. Nature, 2018, 555, 269-273.	27.8	341
58	Structure of the Nanobody-Stabilized Active State of the Kappa Opioid Receptor. Cell, 2018, 172, 55-67.e15.	28.9	299
59	Biased signaling of the protonâ€sensing receptor OGR1 by benzodiazepines. FASEB Journal, 2018, 32, 862-874.	0.5	36
60	Structure-inspired design of Î²-arrestin-biased ligands for aminergic GPCRs. Nature Chemical Biology, 2018, 14, 126-134.	8.0	141
61	Pharmacological characterization of novel synthetic opioids (NSO) found in the recreational drug marketplace. Neuropharmacology, 2018, 134, 101-107.	4.1	78
62	Far away from the lamppost. PLoS Biology, 2018, 16, e3000067.	5.6	10
63	Phosphoproteomics Illuminates Opioid Actions. Biochemistry, 2018, 57, 5505-5506.	2.5	4
64	Donated chemical probes for open science. ELife, 2018, 7, .	6.0	80
65	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.	4.9	143
66	Activation mechanisms for a universal signalling protein. Nature, 2018, 557, 318-319.	27.8	1
67	Selectivity Challenges in Docking Screens for GPCR Targets and Antitargets. Journal of Medicinal Chemistry, 2018, 61, 6830-6845.	6.4	31
68	Structural determinants of 5-HT2B receptor activation and biased agonism. Nature Structural and Molecular Biology, 2018, 25, 787-796.	8.2	116
69	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
70	Illuminating the druggable GPCR-ome. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, SY27-4.	0.0	0
71	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
72	Crystal Structure of an LSD-Bound Human Serotonin Receptor. Cell, 2017, 168, 377-389.e12.	28.9	340

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73	Protamine is an antagonist of apelin receptor, and its activity is reversed by heparin. FASEB Journal, 2017, 31, 2507-2519.	0.5	26
74	Structure-Based Discovery of New Antagonist and Biased Agonist Chemotypes for the Kappa Opioid Receptor. Journal of Medicinal Chemistry, 2017, 60, 3070-3081.	6.4	42
75	In silico design of novel probes for the atypical opioid receptor MRGPRX2. Nature Chemical Biology, 2017, 13, 529-536.	8.0	230
76	5-HT2C Agonists Modulate Schizophrenia-Like Behaviors in Mice. Neuropsychopharmacology, 2017, 42, 2163-2177.	5.4	42
77	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.	30.7	94
78	Discovery of new GPCR ligands to illuminate new biology. Nature Chemical Biology, 2017, 13, 1143-1151.	8.0	80
79	D ₄ dopamine receptor high-resolution structures enable the discovery of selective agonists. Science, 2017, 358, 381-386.	12.6	176
80	A Simple Representation of Three-Dimensional Molecular Structure. Journal of Medicinal Chemistry, 2017, 60, 7393-7409.	6.4	72
81	How Ligands Illuminate GPCR Molecular Pharmacology. Cell, 2017, 170, 414-427.	28.9	419
82	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.	7.1	54
83	The anthelmintic praziquantel is a human serotoninergic G-protein-coupled receptor ligand. Nature Communications, 2017, 8, 1910.	12.8	66
84	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.	6.4	19
85	Fentanyl-related designer drugs W-18 and W-15 lack appreciable opioid activity in vitro and in vivo. JCI Insight, 2017, 2, .	5.0	14
86	In Vitro and In Vivo Characterization of the Alkaloid Nuciferine. PLoS ONE, 2016, 11, e0150602.	2.5	28
87	A Miniaturized Screen of a Schistosoma mansoni Serotonergic G Protein-Coupled Receptor Identifies Novel Classes of Parasite-Selective Inhibitors. PLoS Pathogens, 2016, 12, e1005651.	4.7	30
88	Creâ€dependent DREADD (Designer Receptors Exclusively Activated by Designer Drugs) mice. Genesis, 2016, 54, 439-446.	1.6	158
89	Psilocybin for depression and anxiety associated with life-threatening illnesses. Journal of Psychopharmacology, 2016, 30, 1209-1210.	4.0	14
90	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.	7.1	117

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91	An alerting structure: human orexin receptor 1. Nature Structural and Molecular Biology, 2016, 23, 265-266.	8.2	4
92	Design and synthesis of dual 5-HT1A and 5-HT7 receptor ligands. Bioorganic and Medicinal Chemistry, 2016, 24, 3464-3471.	3.0	19
93	Structure-based discovery of opioid analgesics with reduced side effects. Nature, 2016, 537, 185-190.	27.8	744
94	Design and Discovery of Functionally Selective Serotonin 2C (5-HT_{2C}) Receptor Agonists. Journal of Medicinal Chemistry, 2016, 59, 9866-9880.	6.4	28
95	Translating genome-wide association findings into new therapeutics for psychiatry. Nature Neuroscience, 2016, 19, 1392-1396.	14.8	115
96	Discovery of G Protein-Biased D2 Dopamine Receptor Partial Agonists. Journal of Medicinal Chemistry, 2016, 59, 10601-10618.	6.4	49
97	Discovery and Characterization of Novel GPR39 Agonists Allosterically Modulated by Zinc. Molecular Pharmacology, 2016, 90, 726-737.	2.3	48
98	Ïƒ1 receptor ligands control a switch between passive and active threat responses. Nature Chemical Biology, 2016, 12, 552-558.	8.0	37
99	Zebrafish behavioral profiling identifies multitarget antipsychotic-like compounds. Nature Chemical Biology, 2016, 12, 559-566.	8.0	124
100	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.	7.1	292
101	Development of CNS multi-receptor ligands: Modification of known D2 pharmacophores. Bioorganic and Medicinal Chemistry, 2016, 24, 3671-3679.	3.0	3
102	Behavioral and Physiological Effects of a Novel Kappa-Opioid Receptor-Based DREADD in Rats. Neuropsychopharmacology, 2016, 41, 402-409.	5.4	56
103	DREADDs for Neuroscientists. Neuron, 2016, 89, 683-694.	8.1	1,210
104	New Technologies for Elucidating Opioid Receptor Function. Trends in Pharmacological Sciences, 2016, 37, 279-289.	8.7	61
105	A cellular chemical probe targeting the chromodomains of Polycomb repressive complex 1. Nature Chemical Biology, 2016, 12, 180-187.	8.0	133
106	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.	6.4	26
107	Elucidation of The Behavioral Program and Neuronal Network Encoded by Dorsal Raphe Serotonergic Neurons. Neuropsychopharmacology, 2016, 41, 1404-1415.	5.4	118
108	Comprehensive characterization of the Published Kinase Inhibitor Set. Nature Biotechnology, 2016, 34, 95-103.	17.5	289

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109	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.	5.4	16
110	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.	6.4	31
111	Structural basis for bifunctional peptide recognition at human Î´-opioid receptor. Nature Structural and Molecular Biology, 2015, 22, 265-268.	8.2	151
112	Structure and function of serotonin G protein-coupled receptors. , 2015, 150, 129-142.		275
113	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.	2.5	153
114	DREADD: A Chemogenetic GPCR Signaling Platform. International Journal of Neuropsychopharmacology, 2015, 18, pyu007-pyu007.	2.1	78
115	The First Structureâ€"Activity Relationship Studies for Designer Receptors Exclusively Activated by Designer Drugs. ACS Chemical Neuroscience, 2015, 6, 476-484.	3.5	128
116	A Potent, Selective and Cellâ€Active Allosteric Inhibitor of Protein Arginine Methyltransferaseâ€…3 (PRMT3). Angewandte Chemie - International Edition, 2015, 54, 5166-5170.	13.8	95
117	Single Amino Acid Variation Underlies Species-Specific Sensitivity to Amphibian Skin-Derived Opioid-like Peptides. Chemistry and Biology, 2015, 22, 764-775.	6.0	14
118	The promise and peril of chemical probes. Nature Chemical Biology, 2015, 11, 536-541.	8.0	698
119	Integrated Approaches for Genome-wide Interrogation of the Druggable Non-olfactory G Protein-coupled Receptor Superfamily. Journal of Biological Chemistry, 2015, 290, 19471-19477.	3.4	76
120	A New DREADD Facilitates the Multiplexed Chemogenetic Interrogation of Behavior. Neuron, 2015, 86, 936-946.	8.1	320
121	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.	1.4	15
122	PRESTO-Tango as an open-source resource for interrogation of the druggable human GPCRome. Nature Structural and Molecular Biology, 2015, 22, 362-369.	8.2	535
123	Serotonin-2C and -2a receptor co-expression on cells in the rat medial prefrontal cortex. Neuroscience, 2015, 297, 22-37.	2.3	61
124	Chemogeneticsâ€"A Transformational and Translational Platform. JAMA Neurology, 2015, 72, 1361.	9.0	34
125	Receptor Reserve Moderates Mesolimbic Responses to Opioids in a Humanized Mouse Model of the OPRM1 A118G Polymorphism. Neuropsychopharmacology, 2015, 40, 2614-2622.	5.4	29
126	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.	2.2	7

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127	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.	7.1	80
128	Allosteric ligands for the pharmacologically dark receptors GPR68 and GPR65. Nature, 2015, 527, 477-483.	27.8	214
129	Molecular interactions between general anesthetics and the 5HT_{2B}receptor. Journal of Biomolecular Structure and Dynamics, 2015, 33, 211-218.	3.5	10
130	DREADDs (Designer Receptors Exclusively Activated by Designer Drugs): Chemogenetic Tools with Therapeutic Utility. Annual Review of Pharmacology and Toxicology, 2015, 55, 399-417.	9.4	539
131	The TLQP-21 Peptide Activates the G-Protein-Coupled Receptor C3aR1 via a Folding-upon-Binding Mechanism. Structure, 2014, 22, 1744-1753.	3.3	59
132	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.	5.5	21
133	HTS navigator: freely accessible cheminformatics software for analyzing high-throughput screening data. Bioinformatics, 2014, 30, 588-589.	4.1	16
134	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.	2.2	17
135	Chemogenetic Inactivation of Ventral Hippocampal Glutamatergic Neurons Disrupts Consolidation of Contextual Fear Memory. Neuropsychopharmacology, 2014, 39, 1880-1892.	5.4	135
136	Allosteric sodium in class A GPCR signaling. Trends in Biochemical Sciences, 2014, 39, 233-244.	7.5	417
137	Identification of a new selective dopamine D4 receptor ligand. Bioorganic and Medicinal Chemistry, 2014, 22, 3105-3114.	3.0	24
138	Synthesis, Pharmacological Characterization, and Structureâ€“Activity Relationship Studies of Small Molecular Agonists for the Orphan GPR88 Receptor. ACS Chemical Neuroscience, 2014, 5, 576-587.	3.5	41
139	Molecular control of Î´-opioid receptor signalling. Nature, 2014, 506, 191-196.	27.8	432
140	Identification of Novel Functionally Selective Î¹-Opioid Receptor Scaffolds. Molecular Pharmacology, 2014, 85, 83-90.	2.3	117
141	Structural basis for Smoothened receptor modulation and chemoresistance to anticancer drugs. Nature Communications, 2014, 5, 4355.	12.8	208
142	Further evaluation of the tropane analogs of haloperidol. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4294-4297.	2.2	13
143	Chemogenetic Tools to Interrogate Brain Functions. Annual Review of Neuroscience, 2014, 37, 387-407.	10.7	412
144	DREADDs: novel tools for drug discovery and development. Drug Discovery Today, 2014, 19, 469-473.	6.4	75

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145	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.	5.4	26
146	Tuning up the right signal: chemical and genetic approaches to study GPCR functions. Current Opinion in Cell Biology, 2014, 27, 51-55.	5.4	23
147	Silencing Synapses with DREADDs. Neuron, 2014, 82, 723-725.	8.1	66
148	Novel Molecular Targets of Dezocine and Their Clinical Implications. Anesthesiology, 2014, 120, 714-723.	2.5	77
149	Functional Evolution of Opioid Family G Protein-Coupled Receptors. Methods in Pharmacology and Toxicology, 2014, , 85-104.	0.2	1
150	Chemotype-selective Modes of Action of Î¼-Opioid Receptor Agonists. Journal of Biological Chemistry, 2013, 288, 34470-34483.	3.4	55
151	Direct-Pathway Striatal Neurons Regulate the Retention of Decision-Making Strategies. Journal of Neuroscience, 2013, 33, 11668-11676.	3.6	77
152	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.	6.4	6
153	Discovery of an in Vivo Chemical Probe of the Lysine Methyltransferases G9a and GLP. Journal of Medicinal Chemistry, 2013, 56, 8931-8942.	6.4	220
154	Pharmacosynthetics: Reimagining the pharmacogenetic approach. Brain Research, 2013, 1511, 6-20.	2.2	92
155	Discovery of Î²2 Adrenergic Receptor Ligands Using Biosensor Fragment Screening of Tagged Wild-Type Receptor. ACS Medicinal Chemistry Letters, 2013, 4, 1005-1010.	2.8	65
156	Aryl Biphenylâ€3â€ylmethylpiperazines as 5â€HT₇ Receptor Antagonists. ChemMedChem, 2013, 8, 1855-1864.	3.2	12
157	Search for Î±3Î²2/3Î³2 subtype selective ligands that are stable on human liver microsomes. Bioorganic and Medicinal Chemistry, 2013, 21, 93-101.	3.0	17
158	Neurochemical profiles of some novel psychoactive substances. European Journal of Pharmacology, 2013, 700, 147-151.	3.5	150
159	A pharmacological organization of G proteinâ€coupled receptors. Nature Methods, 2013, 10, 140-146.	19.0	89
160	Conformational Ensembles in GPCR Activation. Cell, 2013, 152, 385-386.	28.9	25
161	DREADDs in Drosophila: A Pharmacogenetic Approach for Controlling Behavior, Neuronal Signaling, and Physiology in the Fly. Cell Reports, 2013, 4, 1049-1059.	6.4	40
162	Intestinal Epithelial Cellâ€Derived Î¼-Opioid Signaling Protects against Ischemia Reperfusion Injury through PI3K Signaling. American Journal of Pathology, 2013, 182, 776-785.	3.8	34

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163	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.	3.0	12
164	Photochemical activation of TRPA1 channels in neurons and animals. Nature Chemical Biology, 2013, 9, 257-263.	8.0	97
165	Conformation Guides Molecular Efficacy in Docking Screens of Activated Î²-2 Adrenergic G Protein Coupled Receptor. ACS Chemical Biology, 2013, 8, 1018-1026.	3.4	101
166	Inhibition of Mediodorsal Thalamus Disrupts Thalamofrontal Connectivity and Cognition. Neuron, 2013, 77, 1151-1162.	8.1	318
167	Structural Features for Functional Selectivity at Serotonin Receptors. Science, 2013, 340, 615-619.	12.6	600
168	Structural Basis for Molecular Recognition at Serotonin Receptors. Science, 2013, 340, 610-614.	12.6	454
169	Colloidal Aggregation Causes Inhibition of G Protein-Coupled Receptors. Journal of Medicinal Chemistry, 2013, 56, 2406-2414.	6.4	91
170	Kappa-opioid receptor-selective dicarboxylic ester-derived salvinorin A ligands. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 2860-2862.	2.2	13
171	Impossible or Merely Difficult? Two Grand Challenges from a Biologistâ€™s Perspective. ACS Medicinal Chemistry Letters, 2013, 4, 316-318.	2.8	7
172	A GÎ±s DREADD Mouse for Selective Modulation of cAMP Production in Striatopallidal Neurons. Neuropsychopharmacology, 2013, 38, 854-862.	5.4	116
173	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.	2.2	36
174	Structure of the human smoothened receptor bound to an antitumour agent. Nature, 2013, 497, 338-343.	27.8	415
175	An Orally Bioavailable Chemical Probe of the Lysine Methyltransferases EZH2 and EZH1. ACS Chemical Biology, 2013, 8, 1324-1334.	3.4	399
176	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.	2.9	129
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