

Christian C Felder

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10799891/publications.pdf>

Version: 2024-02-01

77
papers

7,751
citations

81743

39
h-index

76769

74
g-index

80
all docs

80
docs citations

80
times ranked

6619
citing authors

#	ARTICLE	IF	CITATIONS
1	Activation and allosteric modulation of a muscarinic acetylcholine receptor. <i>Nature</i> , 2013, 504, 101-106.	13.7	779
2	Concurrent Stimulation of Cannabinoid CB1 and Dopamine D2 Receptors Augments cAMP Accumulation in Striatal Neurons: Evidence for a G _s Linkage to the CB1 Receptor. <i>Journal of Neuroscience</i> , 1997, 17, 5327-5333.	1.7	565
3	Characterization of a Novel Endocannabinoid, Virodhamine, with Antagonist Activity at the CB1 Receptor. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002, 301, 1020-1024.	1.3	531
4	Muscarinic acetylcholine receptors: signal transduction through multiple effectors. <i>FASEB Journal</i> , 1995, 9, 619-625.	0.2	468
5	Selective Muscarinic Receptor Agonist Xanomeline as a Novel Treatment Approach for Schizophrenia. <i>American Journal of Psychiatry</i> , 2008, 165, 1033-1039.	4.0	430
6	Mice lacking the M3 muscarinic acetylcholine receptor are hypophagic and lean. <i>Nature</i> , 2001, 410, 207-212.	13.7	349
7	CANNABINOID RECEPTORS AND THEIR ENDOGENOUS AGONISTS. <i>Annual Review of Pharmacology and Toxicology</i> , 1998, 38, 179-200.	4.2	348
8	Isolation and measurement of the endogenous cannabinoid receptor agonist, anandamide, in brain and peripheral tissues of human and rat. <i>FEBS Letters</i> , 1996, 393, 231-235.	1.3	295
9	Crystal structures of the M1 and M4 muscarinic acetylcholine receptors. <i>Nature</i> , 2016, 531, 335-340.	13.7	272
10	Anandamide, an endogenous ligand of the cannabinoid receptor, induces hypomotility and hypothermia in vivo in rodents. <i>Pharmacology Biochemistry and Behavior</i> , 1993, 46, 967-972.	1.3	222
11	The endocannabinoid nervous system. , 2001, 90, 45-60.		218
12	Therapeutic Opportunities for Muscarinic Receptors in the Central Nervous System. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 4333-4353.	2.9	209
13	Use of M1-M5 muscarinic receptor knockout mice as novel tools to delineate the physiological roles of the muscarinic cholinergic system. <i>Neurochemical Research</i> , 2003, 28, 437-442.	1.6	177
14	Role of specific muscarinic receptor subtypes in cholinergic parasympathomimetic responses, in vivo phosphoinositide hydrolysis, and pilocarpine-induced seizure activity. <i>European Journal of Neuroscience</i> , 2003, 17, 1403-1410.	1.2	153
15	Molecular Mechanisms of Action and In Vivo Validation of an M4 Muscarinic Acetylcholine Receptor Allosteric Modulator with Potential Antipsychotic Properties. <i>Neuropsychopharmacology</i> , 2010, 35, 855-869.	2.8	143
16	Evaluation of Muscarinic Agonist-Induced Analgesia in Muscarinic Acetylcholine Receptor Knockout Mice. <i>Molecular Pharmacology</i> , 2002, 62, 1084-1093.	1.0	133
17	Muscarinic mechanisms of antipsychotic atypicality. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2003, 27, 1125-1143.	2.5	123
18	Activation of Muscarinic M1 Acetylcholine Receptors Induces Long-Term Potentiation in the Hippocampus. <i>Cerebral Cortex</i> , 2016, 26, 414-426.	1.6	120

#	ARTICLE	IF	CITATIONS
19	Probe Dependence in the Allosteric Modulation of a G Protein-Coupled Receptor: Implications for Detection and Validation of Allosteric Ligand Effects. <i>Molecular Pharmacology</i> , 2012, 81, 41-52.	1.0	115
20	Elucidating the role of muscarinic receptors in psychosis. <i>Life Sciences</i> , 2001, 68, 2605-2613.	2.0	106
21	New Insights into the Function of M ₄ Muscarinic Acetylcholine Receptors Gained Using a Novel Allosteric Modulator and a DREADD (Designer Receptor Exclusively Activated by a Designer) Tj ETQq1 1 0.784314 rgBTi/Overlo	1.0	106
22	Muscarinic receptor subtypes mediating central and peripheral antinociception studied with muscarinic receptor knockout mice. <i>Life Sciences</i> , 2003, 72, 2047-2054.	2.0	93
23	Imaging and Quantitation of Cannabinoid CB ₁ Receptors in Human and Monkey Brains Using ¹⁸ F-Labeled Inverse Agonist Radioligands. <i>Journal of Nuclear Medicine</i> , 2010, 51, 112-120.	2.8	91
24	Quantitation of cannabinoid CB1 receptors in healthy human brain using positron emission tomography and an inverse agonist radioligand. <i>NeuroImage</i> , 2009, 48, 362-370.	2.1	86
25	M1 muscarinic receptor signaling in mouse hippocampus and cortex. <i>Brain Research</i> , 2002, 944, 82-89.	1.1	84
26	The PET Radioligand [11C]MePPEP Binds Reversibly and with High Specific Signal to Cannabinoid CB1 Receptors in Nonhuman Primate Brain. <i>Neuropsychopharmacology</i> , 2008, 33, 259-269.	2.8	80
27	Structural Determinants of Allosteric Agonism and Modulation at the M4 Muscarinic Acetylcholine Receptor. <i>Journal of Biological Chemistry</i> , 2010, 285, 19012-19021.	1.6	70
28	Synthesis, Ex Vivo Evaluation, and Radiolabeling of Potent 1,5-Diphenylpyrrolidin-2-one Cannabinoid Subtype-1 Receptor Ligands as Candidates for In Vivo Imaging. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 5833-5842.	2.9	69
29	Cannabinoid receptors and their endogenous agonist, anandamide. <i>Neurochemical Research</i> , 1998, 23, 575-581.	1.6	65
30	Current status of muscarinic M1 and M4 receptors as drug targets for neurodegenerative diseases. <i>Neuropharmacology</i> , 2018, 136, 449-458.	2.0	65
31	Rapid High-Energy Microwave Fixation is Required to Determine the Anandamide (N-arachidonoyl ethanolamine) Concentration of Rat Brain. <i>Neurochemical Research</i> , 2005, 30, 597-601.	1.6	64
32	Cloning and characterization of the rat 5-HT _{5B} receptor. <i>FEBS Letters</i> , 1993, 333, 25-31.	1.3	60
33	Voltage-independent calcium channels. <i>Biochemical Pharmacology</i> , 1994, 48, 1997-2004.	2.0	59
34	Generation and pharmacological analysis of M2 and M4 muscarinic receptor knockout mice. <i>Life Sciences</i> , 2001, 68, 2457-2466.	2.0	56
35	M1 muscarinic allosteric modulators slow prion neurodegeneration and restore memory loss. <i>Journal of Clinical Investigation</i> , 2016, 127, 487-499.	3.9	56
36	?1-Adrenergic Receptor Mediates Arachidonic Acid Release in Spinal Cord Neurons Independent of Inositol Phospholipid Turnover. <i>Journal of Neurochemistry</i> , 1990, 54, 1225-1232.	2.1	51

#	ARTICLE	IF	CITATIONS
37	Positron emission tomography imaging using an inverse agonist radioligand to assess cannabinoid CB1 receptors in rodents. <i>NeuroImage</i> , 2008, 41, 690-698.	2.1	47
38	Cryptic pocket formation underlies allosteric modulator selectivity at muscarinic GPCRs. <i>Nature Communications</i> , 2019, 10, 3289.	5.8	47
39	Pharmacological Characterization of Endocannabinoid Transport and Fatty Acid Amide Hydrolase Inhibitors. <i>Cellular and Molecular Neurobiology</i> , 2006, 26, 405-421.	1.7	46
40	The muscarinic agonist xanomeline increases monoamine release and immediate early gene expression in the rat prefrontal cortex. <i>Biological Psychiatry</i> , 2001, 49, 716-725.	0.7	43
41	Cannabinoids Biology: The Search for New Therapeutic Targets. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2006, 6, 149-161.	3.4	42
42	Characterization of the Novel Positive Allosteric Modulator, LY2119620, at the Muscarinic M ₂ and M ₄ Receptors. <i>Molecular Pharmacology</i> , 2014, 86, 106-115.	1.0	42
43	GABA _A Receptors Modulate Early Spontaneous Excitatory Activity in Differentiating P19 Neurons. <i>Journal of Neurochemistry</i> , 1996, 66, 233-242.	2.1	39
44	An Antibody Biosensor Establishes the Activation of the M1 Muscarinic Acetylcholine Receptor during Learning and Memory. <i>Journal of Biological Chemistry</i> , 2016, 291, 8862-8875.	1.6	34
45	The Role of Transmembrane Domain 3 in the Actions of Orthosteric, Allosteric, and Atypical Agonists of the M ₄ Muscarinic Acetylcholine Receptor. <i>Molecular Pharmacology</i> , 2011, 79, 855-865.	1.0	32
46	Cortical M1 receptor concentration increases without a concomitant change in function in Alzheimer's disease. <i>Journal of Chemical Neuroanatomy</i> , 2010, 40, 63-70.	1.0	31
47	Pharmacological Characterization of LY593093, an M1 Muscarinic Acetylcholine Receptor-Selective Partial Orthosteric Agonist. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 338, 622-632.	1.3	31
48	The Signal Transducer for the Dopamine-1 Regulated Sodium Transport in Renal Cortical Brush Border Membrane Vesicles. <i>American Journal of Hypertension</i> , 1990, 3, 47S-50S.	1.0	30
49	Identification and Molecular Characterization of a m5 Muscarinic Receptor in A2058 Human Melanoma Cells. <i>Journal of Biological Chemistry</i> , 1996, 271, 17476-17484.	1.6	30
50	Receptor-coupled Amyloid Precursor Protein Processing. <i>Annals of the New York Academy of Sciences</i> , 1993, 695, 122-127.	1.8	29
51	Muscarinic Acetylcholine Receptor Agonists as Novel Treatments for Schizophrenia. <i>American Journal of Psychiatry</i> , 2022, 179, 611-627.	4.0	29
52	Muscarinic receptors mediate the release of arachidonic acid from spinal cord and hippocampal neurons in primary culture. <i>Neuroscience Letters</i> , 1990, 118, 235-237.	1.0	27
53	Development of a Radioligand, [3H]LY2119620, to Probe the Human M2 and M4 Muscarinic Receptor Allosteric Binding Sites. <i>Molecular Pharmacology</i> , 2014, 86, 116-123.	1.0	25
54	Bitopic Binding Mode of an M ₁ Muscarinic Acetylcholine Receptor Agonist Associated with Adverse Clinical Trial Outcomes. <i>Molecular Pharmacology</i> , 2018, 93, 645-656.	1.0	25

#	ARTICLE	IF	CITATIONS
55	Biodistribution and dosimetry in humans of two inverse agonists to image cannabinoid CB1 receptors using positron emission tomography. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2010, 37, 1499-1506.	3.3	22
56	¹²³ I-Iododexetimide Preferentially Binds to the Muscarinic Receptor Subtype M ₁ In Vivo. <i>Journal of Nuclear Medicine</i> , 2015, 56, 317-322.	2.8	22
57	Characterization of PCS1055, a novel muscarinic M4 receptor antagonist. <i>European Journal of Pharmacology</i> , 2016, 782, 70-76.	1.7	20
58	Muscarinic Acetylcholine Receptor Subtypes Associated with Release of Alzheimer Amyloid Precursor Derivatives Activate Multiple Signal Transduction Pathways. <i>Annals of the New York Academy of Sciences</i> , 1993, 695, 15-18.	1.8	14
59	GPCR drug discovery-moving beyond the orthosteric to the allosteric domain. <i>Advances in Pharmacology</i> , 2019, 86, 1-20.	1.2	14
60	The Muscarinic Acetylcholine Receptor Agonist BuTAC Mediates Antipsychotic-Like Effects via the M4 Subtype. <i>Neuropsychopharmacology</i> , 2013, 38, 2717-2726.	2.8	13
61	Carbachol-induced reverse transformation of Chinese hamster ovary cells transfected with and expressing the m5 muscarinic acetylcholine receptor. <i>FEBS Letters</i> , 1989, 245, 75-79.	1.3	10
62	The third intracellular domain of the m3 muscarinic receptor determines coupling to calcium influx in transfected Chinese hamster ovary cells. <i>FEBS Letters</i> , 1996, 386, 51-54.	1.3	10
63	Inflammatory Cytokines Enhance Muscarinic-Mediated Arachidonic Acid Release Through p38 Mitogen-Activated Protein Kinase in A2058 Cells. <i>Journal of Neurochemistry</i> , 2008, 74, 2033-2040.	2.1	10
64	Translational Pharmacology of the Metabotropic Glutamate 2 Receptor—Preferring Agonist LY2812223 in the Animal and Human Brain. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2017, 361, 190-197.	1.3	10
65	In Vitro Pharmacological Characterization and In Vivo Validation of LSN3172176 a Novel M1 Selective Muscarinic Receptor Agonist Tracer Molecule for Positron Emission Tomography. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2018, 365, 602-613.	1.3	10
66	Receptor reserve of phosphoinositide-coupled muscarinic receptors in mouse hippocampus in vivo. <i>Brain Research</i> , 2001, 916, 165-171.	1.1	9
67	Identification and pharmacological profile of SPP1, a potent, functionally selective and brain penetrant agonist at muscarinic M ₁ receptors. <i>British Journal of Pharmacology</i> , 2019, 176, 110-126.	2.7	9
68	Independent induction of morphological transformation of CHO cells by receptor-activated cyclic AMP synthesis or by receptor-operated calcium influx. <i>Biochemical Pharmacology</i> , 1996, 51, 495-502.	2.0	7
69	Pharmacological characterization of the cannabinoid CB1 receptor PET ligand ortholog, [3H]MePPEP. <i>European Journal of Pharmacology</i> , 2010, 649, 44-50.	1.7	6
70	Biased Profile of Xanomeline at the Recombinant Human M ₄ Muscarinic Acetylcholine Receptor. <i>ACS Chemical Neuroscience</i> , 2022, 13, 1206-1218.	1.7	6
71	Drs. Shekhar, McKinzie, and Felder Reply. <i>American Journal of Psychiatry</i> , 2009, 166, 113-113.	4.0	5
72	Chapter 18 Muscarinic receptor activated Ca ²⁺ -channels in non-excitabile cells. <i>Progress in Brain Research</i> , 1996, 109, 195-199.	0.9	4

#	ARTICLE	IF	CITATIONS
73	Design and synthesis of N-[6-(Substituted Aminoethylideneamino)-2-Hydroxyindan-1-yl]arylamides as selective and potent muscarinic M1 agonists. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 4158-4163.	1.0	4
74	Antipsychotic-Like Effect of the Muscarinic Acetylcholine Receptor Agonist BuTAC in Non-Human Primates. <i>PLoS ONE</i> , 2015, 10, e0122722.	1.1	2
75	Endocannabinoids and their receptors as targets for treating metabolic and psychiatric disorders. <i>Drug Discovery Today: Therapeutic Strategies</i> , 2006, 3, 561-567.	0.5	1
76	The Role of Anandamide and Related Fatty Acid Ethanolamides as Endogenous Ligands for the CB1 and CB2 Cannabinoid Receptors. , 1996, , 157-164.		1
77	Identification, expression and functional characterization of M4L, a muscarinic acetylcholine M4 receptor splice variant. <i>PLoS ONE</i> , 2017, 12, e0188330.	1.1	0