

Gustav Akk

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

1,582

citations

23

h-index

38

g-index

89

ext. papers

1,759

ext. citations

5

avg, IF

5.31

L-index

#	Paper	IF	Citations
63	(+)-Catharanthine potentiates the GABA receptor by binding to a transmembrane site at the $\alpha 1/\beta 1$ interface near the TM2-TM3 loop. <i>Biochemical Pharmacology</i> , 2022 , 114993	6	
62	Assessing Potentiation of the $\alpha 3\beta 2$ Nicotinic Acetylcholine Receptor by the Allosteric Agonist CMPI. <i>Journal of Biological Chemistry</i> , 2021 , 101455	5.4	2
61	The sulfated steroids pregnenolone sulfate and dehydroepiandrosterone sulfate inhibit the $\alpha 1\beta 1$ GABA receptor by stabilizing a novel non-conducting state. <i>Molecular Pharmacology</i> , 2021 ,	4.3	2
60	Intrasubunit and Intersubunit Steroid Binding Sites Independently and Additively Mediate 122L GABA Receptor Potentiation by the Endogenous Neurosteroid Allopregnanolone. <i>Molecular Pharmacology</i> , 2021 , 100, 19-31	4.3	3
59	Site-specific effects of neurosteroids on GABA receptor activation and desensitization. <i>ELife</i> , 2020 , 9,	8.9	11
58	Reduced Activation of the Synaptic-Type GABA Receptor Following Prolonged Exposure to Low Concentrations of Agonists: Relationship between Tonic Activity and Desensitization. <i>Molecular Pharmacology</i> , 2020 , 98, 762-769	4.3	1
57	Analysis of Modulation of the $\alpha 1$ GABA Receptor by Combinations of Inhibitory and Potentiating Neurosteroids Reveals Shared and Distinct Binding Sites. <i>Molecular Pharmacology</i> , 2020 , 98, 280-291	4.3	1
56	Enhancement of Muscimol Binding and Gating by Allosteric Modulators of the GABA Receptor: Relating Occupancy to State Functions. <i>Molecular Pharmacology</i> , 2020 , 98, 303-313	4.3	4
55	Enhancement of Muscimol Binding and Gating by Allosteric Modulators of the GABA Receptor: Relating Occupancy to State Functions. <i>Molecular Pharmacology</i> , 2020 , 98, 303-313	4.3	3
54	Application of the Co-Agonist Concerted Transition Model to Analysis of GABA Receptor Properties. <i>Current Neuropharmacology</i> , 2019 , 17, 843-851	7.6	2
53	The molecular determinants of neurosteroid binding in the GABA(A) receptor. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2019 , 192, 105383	5.1	8
52	Multiple functional neurosteroid binding sites on GABA receptors. <i>PLoS Biology</i> , 2019 , 17, e3000157	9.7	38
51	Steady-State Activation and Modulation of the Concatemeric 122L GABA Receptor. <i>Molecular Pharmacology</i> , 2019 , 96, 320-329	4.3	16
50	Mild chronic perturbation of inhibition severely alters hippocampal function. <i>Scientific Reports</i> , 2019 , 9, 16431	4.9	2
49	Steady-state activation and modulation of the synaptic-type $\alpha 1\beta 1$ GABA receptor by combinations of physiological and clinical ligands. <i>Physiological Reports</i> , 2019 , 7, e14230	2.6	13
48	Steady-state activation of the high-affinity isoform of the $\alpha 1\beta 1$ GABA receptor. <i>Scientific Reports</i> , 2019 , 9, 15997	4.9	7
47	Analysis of GABA Receptor Activation by Combinations of Agonists Acting at the Same or Distinct Binding Sites. <i>Molecular Pharmacology</i> , 2019 , 95, 70-81	4.3	16

46	Applying the Monod-Wyman-Changeux Allosteric Activation Model to Pseudo-Steady-State Responses from GABA Receptors. <i>Molecular Pharmacology</i> , 2019 , 95, 106-119	4-3	21
45	Mapping two neurosteroid-modulatory sites in the prototypic pentameric ligand-gated ion channel GLIC. <i>Journal of Biological Chemistry</i> , 2018 , 293, 3013-3027	5-4	23
44	High Constitutive Activity Accounts for the Combination of Enhanced Direct Activation and Reduced Potentiation in Mutated GABA Receptors. <i>Molecular Pharmacology</i> , 2018 , 93, 468-476	4-3	4
43	Propofol Is an Allosteric Agonist with Multiple Binding Sites on Concatemeric Ternary GABA Receptors. <i>Molecular Pharmacology</i> , 2018 , 93, 178-189	4-3	29
42	Chemogenetic Isolation Reveals Synaptic Contribution of α 5 GABA Receptors in Mouse Dentate Granule Neurons. <i>Journal of Neuroscience</i> , 2018 , 38, 8128-8145	6.6	17
41	Enhanced GABAergic actions resulting from the coapplication of the steroid 3 β -hydroxy-5 β -pregnane-11,20-dione (alfaxalone) with propofol or diazepam. <i>Scientific Reports</i> , 2018 , 8, 10341	4.9	17
40	GABA Type A Receptor Activation in the Allosteric Coagonist Model Framework: Relationship between EC and Basal Activity. <i>Molecular Pharmacology</i> , 2018 , 93, 90-100	4-3	21
39	The E Loop of the Transmitter Binding Site Is a Key Determinant of the Modulatory Effects of Physostigmine on Neuronal Nicotinic α 3 Receptors. <i>Molecular Pharmacology</i> , 2017 , 91, 100-109	4-3	4
38	The Actions of Drug Combinations on the GABA Receptor Manifest as Curvilinear Isoboles of Additivity. <i>Molecular Pharmacology</i> , 2017 , 92, 556-563	4-3	19
37	Activation and modulation of recombinant glycine and GABA receptors by 4-halogenated analogues of propofol. <i>British Journal of Pharmacology</i> , 2016 , 173, 3110-3120	8.6	14
36	Comparison of Steroid Modulation of Spontaneous Inhibitory Postsynaptic Currents in Cultured Hippocampal Neurons and Steady-State Single-Channel Currents from Heterologously Expressed α 1 GABA(A) Receptors. <i>Molecular Pharmacology</i> , 2016 , 89, 399-406	4-3	6
35	Introduced Amino Terminal Epitopes Can Reduce Surface Expression of Neuronal Nicotinic Receptors. <i>PLoS ONE</i> , 2016 , 11, e0151071	3-7	1
34	Multiple Non-Equivalent Interfaces Mediate Direct Activation of GABA _A Receptors by Propofol. <i>Current Neuropharmacology</i> , 2016 , 14, 772-80	7.6	29
33	Synaptic-type α 1 GABA _A receptors produce large persistent currents in the presence of ambient GABA and anesthetic drugs. <i>Molecular Pharmacology</i> , 2015 , 87, 776-81	4-3	15
32	Mutational Analysis of the Putative High-Affinity Propofol Binding Site in Human β Homomeric GABA _A Receptors. <i>Molecular Pharmacology</i> , 2015 , 88, 736-45	4-3	19
31	Modulation of the human α 1 GABA _A receptor by inhibitory steroids. <i>Psychopharmacology</i> , 2014 , 231, 3467-78	4-7	8
30	Mutations in the main cytoplasmic loop of the GABA(A) receptor α 4 and β 3 subunits have opposite effects on surface expression. <i>Molecular Pharmacology</i> , 2014 , 86, 20-7	4-3	6
29	11-trifluoromethyl-phenyldiaziriny neurosteroid analogues: potent general anesthetics and photolabeling reagents for GABA _A receptors. <i>Psychopharmacology</i> , 2014 , 231, 3479-91	4-7	10

28	Gamma-aminobutyric acid type A α , β , and δ subunits assemble to produce more than one functionally distinct receptor type. <i>Molecular Pharmacology</i> , 2014 , 86, 647-56	4.3	33
27	Energetic contributions to channel gating of residues in the muscle nicotinic receptor α subunit. <i>PLoS ONE</i> , 2013 , 8, e78539	3.7	2
26	Characteristics of concatemeric GABA(A) receptors containing α / δ subunits expressed in <i>Xenopus</i> oocytes. <i>British Journal of Pharmacology</i> , 2012 , 165, 2228-43	8.6	42
25	Pharmacology of structural changes at the GABA(A) receptor transmitter binding site. <i>British Journal of Pharmacology</i> , 2011 , 162, 840-50	8.6	12
24	Occupation of either site for the neurosteroid allopregnanolone potentiates the opening of the GABAA receptor induced from either transmitter binding site. <i>Molecular Pharmacology</i> , 2011 , 80, 79-86	4.3	22
23	Structural studies of the actions of anesthetic drugs on the gamma-aminobutyric acid type A receptor. <i>Anesthesiology</i> , 2011 , 115, 1338-48	4.3	12
22	Kinetic and structural determinants for GABA-A receptor potentiation by neuroactive steroids. <i>Current Neuropharmacology</i> , 2010 , 8, 18-25	7.6	18
21	Activation and modulation of concatemeric GABA-A receptors expressed in human embryonic kidney cells. <i>Molecular Pharmacology</i> , 2009 , 75, 1400-11	4.3	10
20	The influence of the membrane on neurosteroid actions at GABA(A) receptors. <i>Psychoneuroendocrinology</i> , 2009 , 34 Suppl 1, S59-66	5	38
19	Hydrogen bonding between the 17beta-substituent of a neurosteroid and the GABA(A) receptor is not obligatory for channel potentiation. <i>British Journal of Pharmacology</i> , 2009 , 158, 1322-9	8.6	18
18	Mutations of the GABA-A receptor alpha1 subunit M1 domain reveal unexpected complexity for modulation by neuroactive steroids. <i>Molecular Pharmacology</i> , 2008 , 74, 614-27	4.3	71
17	Mechanisms of neurosteroid interactions with GABA(A) receptors 2007 , 116, 35-57		119
16	Natural and enantiomeric etiocholanolone interact with distinct sites on the rat alpha1beta2gamma2L GABAA receptor. <i>Molecular Pharmacology</i> , 2007 , 71, 1582-90	4.3	36
15	Ethanol modulates the interaction of the endogenous neurosteroid allopregnanolone with the alpha1beta2gamma2L GABAA receptor. <i>Molecular Pharmacology</i> , 2007 , 71, 461-72	4.3	16
14	Activation of heteroliganded mouse muscle nicotinic receptors. <i>Journal of Physiology</i> , 2005 , 564, 359-76	3.9	12
13	Neurosteroid access to the GABAA receptor. <i>Journal of Neuroscience</i> , 2005 , 25, 11605-13	6.6	134
12	Galantamine activates muscle-type nicotinic acetylcholine receptors without binding to the acetylcholine-binding site. <i>Journal of Neuroscience</i> , 2005 , 25, 1992-2001	6.6	39
11	Activation of GABA(A) receptors containing the alpha4 subunit by GABA and pentobarbital. <i>Journal of Physiology</i> , 2004 , 556, 387-99	3.9	55

10	Neuroactive steroids have multiple actions to potentiate GABAA receptors. <i>Journal of Physiology</i> , 2004 , 558, 59-74	3.9	67
9	Low doses of ethanol and a neuroactive steroid positively interact to modulate rat GABA(A) receptor function. <i>Journal of Physiology</i> , 2003 , 546, 641-6	3.9	26
8	Photoaffinity labeling with a neuroactive steroid analogue. 6-azi-pregnanolone labels voltage-dependent anion channel-1 in rat brain. <i>Journal of Biological Chemistry</i> , 2003 , 278, 13196-206	5.4	63
7	Activation and block of mouse muscle-type nicotinic receptors by tetraethylammonium. <i>Journal of Physiology</i> , 2003 , 551, 155-68	3.9	28
6	Contributions of the non-alpha subunit residues (loop D) to agonist binding and channel gating in the muscle nicotinic acetylcholine receptor. <i>Journal of Physiology</i> , 2002 , 544, 695-705	3.9	36
5	Aromatics at the murine nicotinic receptor agonist binding site: mutational analysis of the alphaY93 and alphaW149 residues. <i>Journal of Physiology</i> , 2001 , 535, 729-40	3.9	27
4	Pregnenolone sulfate block of GABA(A) receptors: mechanism and involvement of a residue in the M2 region of the alpha subunit. <i>Journal of Physiology</i> , 2001 , 532, 673-84	3.9	104
3	Activation and block of recombinant GABA(A) receptors by pentobarbitone: a single-channel study. <i>British Journal of Pharmacology</i> , 2000 , 130, 249-58	8.6	46
2	Structural elements near the C-terminus are responsible for changes in nicotinic receptor gating kinetics following patch excision. <i>Journal of Physiology</i> , 2000 , 527 Pt 3, 405-17	3.9	23
1	Site-specific effects of neurosteroids on GABAA receptor activation and desensitization		1