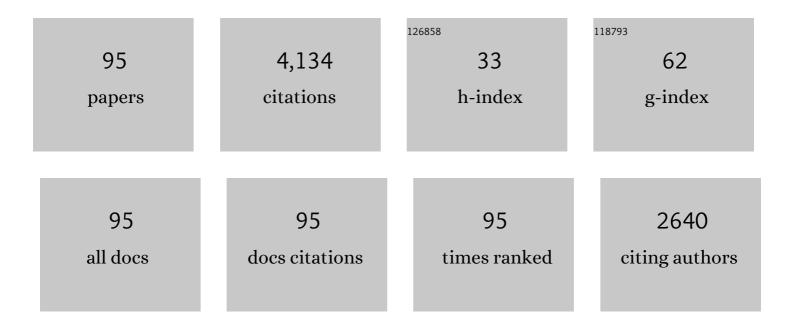
Joe Henry Steinbach

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The extracellular patch clamp: A method for resolving currents through individual open channels in biological membranes. Pflugers Archiv European Journal of Physiology, 1978, 375, 219-228.	1.3	446
2	The distribution of αâ€bungarotoxin binding sites on mammalian skeletal muscle developing <i>in vivo</i> . Journal of Physiology, 1977, 267, 195-213.	1.3	258
3	How quickly can GABAA receptors open?. Neuron, 1994, 12, 61-71.	3.8	239
4	Bicuculline and Gabazine Are Allosteric Inhibitors of Channel Opening of the GABA _A Receptor. Journal of Neuroscience, 1997, 17, 625-634.	1.7	221
5	Developmental changes in acetylcholine receptor aggregates at rat skeletal neuromuscular junctions. Developmental Biology, 1981, 84, 267-276.	0.9	144
6	Neurosteroid Access to the GABAA Receptor. Journal of Neuroscience, 2005, 25, 11605-11613.	1.7	144
7	3β-Hydroxypregnane Steroids Are Pregnenolone Sulfate-Like GABAAReceptor Antagonists. Journal of Neuroscience, 2002, 22, 3366-3375.	1.7	141
8	The C Terminus of the Human Nicotinic α4β2 Receptor Forms a Binding Site Required for Potentiation by an Estrogenic Steroid. Journal of Neuroscience, 2001, 21, 6561-6568.	1.7	125
9	Pregnenolone sulfate block of GABA A receptors: mechanism and involvement of a residue in the M2 region of the α subunit. Journal of Physiology, 2001, 532, 673-684.	1.3	121
10	How many kinds of nicotinic acetylcholine receptor are there?. Trends in Neurosciences, 1989, 12, 3-6.	4.2	91
11	Nicotine is Highly Effective at Producing Desensitization of Rat α4β2 Neuronal Nicotinic Receptors. Journal of Physiology, 2003, 553, 857-871.	1.3	87
12	Mutations of the GABA-A Receptor α1 Subunit M1 Domain Reveal Unexpected Complexity for Modulation by Neuroactive Steroids. Molecular Pharmacology, 2008, 74, 614-627.	1.0	82
13	Neuroactive steroids have multiple actions to potentiate GABAAreceptors. Journal of Physiology, 2004, 558, 59-74.	1.3	76
14	Steroid Inhibition of Rat Neuronal Nicotinic α4β2 Receptors Expressed in HEK 293 Cells. Molecular Pharmacology, 2000, 58, 341-351.	1.0	73
15	Neurosteroid Analog Photolabeling of a Site in the Third Transmembrane Domain of the β3 Subunit of the GABA _A Receptor. Molecular Pharmacology, 2012, 82, 408-419.	1.0	69
16	Structural domains of the human GABA A receptor β3 subunit involved in the actions of pentobarbital. Journal of Physiology, 2000, 524, 649-676.	1.3	62
17	Rare missense variants in CHRNB4 are associated with reduced risk of nicotine dependence. Human Molecular Genetics, 2012, 21, 647-655.	1.4	58
18	Activation of GABAAreceptors containing the α4 subunit by GABA and pentobarbital. Journal of Physiology, 2004, 556, 387-399.	1.3	56

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19	Rapsyn Clusters Neuronal Acetylcholine Receptors But Is Inessential for Formation of an Interneuronal Cholinergic Synapse. Journal of Neuroscience, 1998, 18, 4166-4176.	1.7	54
20	The channel opening rate of adult- and fetal-type mouse muscle nicotinic receptors activated by acetylcholine. Journal of Physiology, 1998, 506, 53-72.	1.3	53
21	Activation and block of recombinant GABAA receptors by pentobarbitone: a single-channel study. British Journal of Pharmacology, 2000, 130, 249-258.	2.7	53
22	Reversible loss of acetylcholine receptor clusters at the developing rat neuromuscular junction. Developmental Biology, 1981, 81, 386-391.	0.9	50
23	Channel open time of acetylcholine receptors on Xenopus muscle cells in dissociated cell culture. Developmental Biology, 1982, 91, 93-102.	0.9	47
24	Functional PDF Signaling in the Drosophila Circadian Neural Circuit Is Gated by Ral A-Dependent Modulation. Neuron, 2016, 90, 781-794.	3.8	45
25	Characteristics of concatemeric GABA _A receptors containing α4/δ subunits expressed in <i>Xenopus</i> oocytes. British Journal of Pharmacology, 2012, 165, 2228-2243.	2.7	43
26	Galantamine Activates Muscle-Type Nicotinic Acetylcholine Receptors without Binding to the Acetylcholine-Binding Site. Journal of Neuroscience, 2005, 25, 1992-2001.	1.7	42
27	The cholinergic antagonist Â-bungarotoxin also binds and blocks a subset of GABA receptors. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5149-5154.	3.3	42
28	Natural and Enantiomeric Etiocholanolone Interact with Distinct Sites on the Rat α1β2γ2L GABAA Receptor. Molecular Pharmacology, 2007, 71, 1582-1590.	1.0	41
29	Propofol Is an Allosteric Agonist with Multiple Binding Sites on Concatemeric Ternary GABA _A Receptors. Molecular Pharmacology, 2018, 93, 178-189.	1.0	41
30	Multiple Non-Equivalent Interfaces Mediate Direct Activation of GABAA Receptors by Propofol. Current Neuropharmacology, 2016, 14, 772-780.	1.4	37
31	Neurosteroid migration to intracellular compartments reduces steroid concentration in the membrane and diminishes GABAâ€A receptor potentiation. Journal of Physiology, 2007, 584, 789-800.	1.3	36
32	<i>γ</i> -Aminobutyric Acid Type A <i>α</i> 4, <i>β</i> 2, and <i>δ</i> Subunits Assemble to Produce More Than One Functionally Distinct Receptor Type. Molecular Pharmacology, 2014, 86, 647-656.	1.0	35
33	Applying the Monod-Wyman-Changeux Allosteric Activation Model to Pseudo–Steady-State Responses from GABA _A Receptors. Molecular Pharmacology, 2019, 95, 106-119.	1.0	35
34	A Portable Site: A Binding Element for 17β-Estradiol Can Be Placed on Any Subunit of a Nicotinic α4β2 Receptor. Journal of Neuroscience, 2011, 31, 5045-5054.	1.7	34
35	Neuroactive Steroids and Human Recombinant Ïl GABA Receptors. Journal of Pharmacology and Experimental Therapeutics, 2007, 323, 236-247.	1.3	33
36	NEUROMUSCULAR BLOCKING AGENTS. International Anesthesiology Clinics, 1988, 26, 288-301.	0.3	32

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37	Dual Potentiating and Inhibitory Actions of a Benz[e]indene Neurosteroid Analog on Recombinant α1β2γ2 GABAA Receptors. Molecular Pharmacology, 2006, 69, 2015-2026.	1.0	32
38	Low doses of ethanol and a neuroactive steroid positively interact to modulate rat GABA A receptor function. Journal of Physiology, 2003, 546, 641-646.	1.3	30
39	Steroid Interaction with a Single Potentiating Site Is Sufficient to Modulate GABA-A Receptor Function. Molecular Pharmacology, 2009, 75, 973-981.	1.0	30
40	GABA Type A Receptor Activation in the Allosteric Coagonist Model Framework: Relationship between EC ₅₀ and Basal Activity. Molecular Pharmacology, 2018, 93, 90-100.	1.0	29
41	Activation and block of mouse muscle-type nicotinic receptors by tetraethylammonium. Journal of Physiology, 2003, 551, 155-168.	1.3	29
42	The Actions of Drug Combinations on the GABA _A Receptor Manifest as Curvilinear Isoboles of Additivity. Molecular Pharmacology, 2017, 92, 556-563.	1.0	28
43	What does phosphorylation do for the nicotinic acetylcholine receptor?. Trends in Neurosciences, 1987, 10, 61-64.	4.2	27
44	Activation and Block of the Adult Muscle-Type Nicotinic Receptor by Physostigmine: Single-Channel Studies. Molecular Pharmacology, 2008, 74, 764-776.	1.0	27
45	Occupation of Either Site for the Neurosteroid Allopregnanolone Potentiates the Opening of the GABA _A Receptor Induced from Either Transmitter Binding Site. Molecular Pharmacology, 2011, 80, 79-86.	1.0	27
46	Subunit-Specific Action of an Anticonvulsant Thiobutyrolactone on Recombinant Glycine Receptors Involves a Residue in the M2 Membrane-Spanning Region. Molecular Pharmacology, 2000, 58, 11-17.	1.0	26
47	The Nicotinic <i>α</i> 5 Subunit Can Replace Either an Acetylcholine-Binding or Nonbinding Subunit in the <i>α</i> 4 <i>β</i> 2* Neuronal Nicotinic Receptor. Molecular Pharmacology, 2014, 85, 11-17.	1.0	26
48	Analysis of GABA _A Receptor Activation by Combinations of Agonists Acting at the Same or Distinct Binding Sites. Molecular Pharmacology, 2019, 95, 70-81.	1.0	26
49	Functional Characterization of the α5(Asn398) Variant Associated with Risk for Nicotine Dependence in the α3β4α5 Nicotinic Receptor. Molecular Pharmacology, 2011, 80, 818-827.	1.0	25
50	Cytisine binds with similar affinity to nicotinic α4β2 receptors on the cell surface and in homogenates. Brain Research, 2003, 959, 98-102.	1.1	24
51	Structural elements near the Câ€ŧerminus are responsible for changes in nicotinic receptor gating kinetics following patch excision. Journal of Physiology, 2000, 527, 405-417.	1.3	23
52	Enantiomers of Neuroactive Steroids Support a Specific Interaction with the GABA-C Receptor as the Mechanism of Steroid Action. Molecular Pharmacology, 2006, 69, 1779-1782.	1.0	23
53	Role of the Agonist Binding Site in Up-Regulation of Neuronal Nicotinic α4β2 Receptors. Molecular Pharmacology, 2006, 70, 2037-2044.	1.0	23
54	A Synthetic 18-Norsteroid Distinguishes between Two Neuroactive Steroid Binding Sites on GABA _A Receptors. Journal of Pharmacology and Experimental Therapeutics, 2010, 333, 404-413.	1.3	22

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55	Anticonvulsant and anesthetic effects of a fluorescent neurosteroid analog activated by visible light. Nature Neuroscience, 2007, 10, 523-530.	7.1	21
56	Kinetic and Structural Determinants for GABA-A Receptor Potentiation by Neuroactive Steroids. Current Neuropharmacology, 2010, 8, 18-25.	1.4	21
57	Chemogenetic Isolation Reveals Synaptic Contribution of δGABA _A Receptors in Mouse Dentate Granule Neurons. Journal of Neuroscience, 2018, 38, 8128-8145.	1.7	21
58	FACTORS AFFECTING THE SUSCEPTIBILITY OF DIFFERENT STRAINS OF MICE TO EXPERIMENTAL MY ASTHENIA GRAVIS. Annals of the New York Academy of Sciences, 1981, 377, 237-257.	1.8	20
59	Steady-State Activation and Modulation of the Concatemeric <i>î±</i> 1 <i>î²</i> 2 <i>î³</i> 2L GABA _A Receptor. Molecular Pharmacology, 2019, 96, 320-329.	1.0	20
60	Hydrogen bonding between the 17βâ€substituent of a neurosteroid and the GABA _A receptor is not obligatory for channel potentiation. British Journal of Pharmacology, 2009, 158, 1322-1329.	2.7	19
61	A neurosteroid potentiation site can be moved among GABA _A receptor subunits. Journal of Physiology, 2012, 590, 5739-5747.	1.3	19
62	Cis-Regulatory Variants Affect CHRNA5 mRNA Expression in Populations of African and European Ancestry. PLoS ONE, 2013, 8, e80204.	1.1	19
63	Kinetic analysis of voltageâ€dependent potentiation and block of the glycine α3 receptor by a neuroactive steroid analogue. Journal of Physiology, 2009, 587, 981-997.	1.3	17
64	Steadyâ€state activation and modulation of the synapticâ€ŧype <i>α</i> 1 <i>β</i> 2 <i>γ</i> 2L GABA _A receptor by combinations of physiological and clinical ligands. Physiological Reports, 2019, 7, e14230.	0.7	17
65	Ethanol Modulates the Interaction of the Endogenous Neurosteroid Allopregnanolone with the α1β2γ2L GABAA Receptor. Molecular Pharmacology, 2007, 71, 461-472.	1.0	16
66	Pharmacology of structural changes at the GABA _A receptor transmitter binding site. British Journal of Pharmacology, 2011, 162, 840-850.	2.7	15
67	Neonatal Rat Cerebellar Granule and Purkinje Neurons in Culture Express Different GABAAReceptors. European Journal of Neuroscience, 1995, 7, 1895-1905.	1.2	14
68	Site-Specific Fluorescence Reveals Distinct Structural Changes Induced in the Human Ïł GABA Receptor by Inhibitory Neurosteroids. Molecular Pharmacology, 2010, 77, 539-546.	1.0	13
69	Activation and Modulation of Concatemeric GABA-A Receptors Expressed in Human Embryonic Kidney Cells. Molecular Pharmacology, 2009, 75, 1400-1411.	1.0	12
70	Collagenase digestion alters the organization and turnover of junctional acetylcholine receptors. Neuroscience Letters, 1986, 66, 113-119.	1.0	10
71	Differences in the expression of GABAA receptors between functionally innervated and non-innervated granule neurons in neonatal rat cerebellar cultures. Brain Research, 1996, 714, 49-56.	1.1	10
72	Multiple Modes for Conferring Surface Expression of Homomeric β1 GABAA Receptors. Journal of Biological Chemistry, 2008, 283, 26128-26136.	1.6	10

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73	Functional Characterization Improves Associations between Rare Non-Synonymous Variants in CHRNB4 and Smoking Behavior. PLoS ONE, 2014, 9, e96753.	1.1	10
74	Mutations in the Main Cytoplasmic Loop of the GABAA Receptor α4 and δ Subunits Have Opposite Effects on Surface Expression. Molecular Pharmacology, 2014, 86, 20-27.	1.0	10
75	Potentiation of Neuronal Nicotinic Receptors by 17β-Estradiol: Roles of the Carboxy-Terminal and the Amino-Terminal Extracellular Domains. PLoS ONE, 2015, 10, e0144631.	1.1	10
76	Intrasubunit and intersubunit steroid binding sites independently and additively mediate α1β2γ2L GABA _A receptor potentiation by the endogenous neurosteroid allopregnanolone. Molecular Pharmacology, 2021, 100, MOLPHARM-AR-2021-000268.	1.0	10
77	Mechanism of Action of the Nicotinic Acetylcholine Receptor. Novartis Foundation Symposium, 1990, 152, 53-67.	1.2	10
78	Application of the Co-Agonist Concerted Transition Model to Analysis of GABAA Receptor Properties. Current Neuropharmacology, 2019, 17, 843-851.	1.4	9
79	The Sulfated Steroids Pregnenolone Sulfate and Dehydroepiandrosterone Sulfate Inhibit the <i>α</i> 1 <i>β</i> 3 <i>Ĩ²</i> 2L GABA _A Receptor by Stabilizing a Novel Nonconducting State. Molecular Pharmacology, 2022, 101, 68-77.	1.0	9
80	Enhancement of muscimol binding and gating by allosteric modulators of the GABAA receptor: relating occupancy to state functions. Molecular Pharmacology, 2020, 98, MOLPHARM-AR-2020-000066.	1.0	8
81	Use of Concatemers of Ligand-Gated Ion Channel Subunits to Study Mechanisms of Steroid Potentiation. Anesthesiology, 2011, 115, 1328-1337.	1.3	7
82	Enhancement of Muscimol Binding and Gating by Allosteric Modulators of the GABA _A Receptor: Relating Occupancy to State Functions. Molecular Pharmacology, 2020, 98, 303-313.	1.0	6
83	Agonist-Specific Conformational Changes in the α1-γ2 Subunit Interface of the GABAA Receptor. Molecular Pharmacology, 2012, 82, 255-263.	1.0	4
84	The E Loop of the Transmitter Binding Site Is a Key Determinant of the Modulatory Effects of Physostigmine on Neuronal Nicotinic <i>α</i> 4 <i>β</i> 2 Receptors. Molecular Pharmacology, 2017, 91, 100-109.	1.0	4
85	Mild chronic perturbation of inhibition severely alters hippocampal function. Scientific Reports, 2019, 9, 16431.	1.6	4
86	Perspective on the relationship between GABAA receptor activity and the apparent potency of an inhibitor. Current Neuropharmacology, 2021, 19, .	1.4	4
87	Energetic Contributions to Channel Gating of Residues in the Muscle Nicotinic Receptor β1 Subunit. PLoS ONE, 2013, 8, e78539.	1.1	3
88	Chapter 7 Function of Mammalian Nicotinic Acetylcholine Receptors: Agonist Concentration Dependence of Single Channel Current Kinetics. Current Topics in Membranes and Transport, 1988, 33, 133-145.	0.6	2
89	Reduced Activation of the Synaptic-Type GABA _A Receptor Following Prolonged Exposure to Low Concentrations of Agonists: Relationship between Tonic Activity and Desensitization. Molecular Pharmacology, 2020, 98, 762-769.	1.0	2
90	Analysis of Modulation of the 🛿 GABAA Receptor by Combinations of Inhibitory and Potentiating Neurosteroids Reveals Shared and Distinct Binding Sites. Molecular Pharmacology, 2020, 98, 280-291.	1.0	2

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91	How to Force Conformity on Transmitter-Gated Channels. Journal of General Physiology, 2000, 116, 445-448.	0.9	1
92	Flapping Loops: Roles for Hinges in a Ligand-Binding Domain of the Nicotinic Receptor. Molecular Pharmacology, 2011, 79, 337-339.	1.0	1
93	Introduced Amino Terminal Epitopes Can Reduce Surface Expression of Neuronal Nicotinic Receptors. PLoS ONE, 2016, 11, e0151071.	1.1	1
94	Unready for action. Nature, 2008, 454, 704-705.	13.7	0
95	Determination of the Residues in the Extracellular Domain of the Nicotinic <i>α</i> Subunit Required for the Actions of Physostigmine on Neuronal Nicotinic Receptors. Molecular Pharmacology, 2017, 92, 318-326.	1.0	0