

Trevor G Smart

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

10,436
citations

41344

49
h-index

36028

97
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106
all docs

106
docs citations

106
times ranked

8589
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of inhibition and activation of extrasynaptic $\hat{1}\hat{2}$ GABAA receptors. <i>Nature</i> , 2022, 602, 529-533.	27.8	31
2	Phosphorylation of neuroligin-2 by PKA regulates its cell surface abundance and synaptic stabilization. <i>Science Signaling</i> , 2022, 15, .	3.6	4
3	Physiological role for GABAA receptor desensitization in the induction of long-term potentiation at inhibitory synapses. <i>Nature Communications</i> , 2021, 12, 2112.	12.8	14
4	Structural determinants and regulation of spontaneous activity in GABAA receptors. <i>Nature Communications</i> , 2021, 12, 5457.	12.8	8
5	AKAP79 enables calcineurin to directly suppress protein kinase A activity. <i>ELife</i> , 2021, 10, .	6.0	6
6	GABAAR isoform and subunit structural motifs determine synaptic and extrasynaptic receptor localisation. <i>Neuropharmacology</i> , 2020, 169, 107540.	4.1	34
7	Differential Coassembly of $\hat{1}\pm$ 1-GABA_ARs Associated with Epileptic Encephalopathy. <i>Journal of Neuroscience</i> , 2020, 40, 5518-5530.	3.6	10
8	Optopharmacology reveals a differential contribution of native GABAA receptors to dendritic and somatic inhibition using azogabazine. <i>Neuropharmacology</i> , 2020, 176, 108135.	4.1	3
9	Developing New 4-PIOL and 4-PHP Analogues for Photoinactivation of $\hat{1}^3$ -Aminobutyric Acid Type A Receptors. <i>ACS Chemical Neuroscience</i> , 2019, 10, 4669-4684.	3.5	6
10	A half century of $\hat{1}^3$ -aminobutyric acid. <i>Brain and Neuroscience Advances</i> , 2019, 3, 239821281985824.	3.4	42
11	Probing GABAA receptors with inhibitory neurosteroids. <i>Neuropharmacology</i> , 2018, 136, 23-36.	4.1	18
12	Wnt Signaling Mediates LTP-Dependent Spine Plasticity and AMPAR Localization through Frizzled-7 Receptors. <i>Cell Reports</i> , 2018, 23, 1060-1071.	6.4	64
13	Disease-associated missense mutations in GluN2B subunit alter NMDA receptor ligand binding and ion channel properties. <i>Nature Communications</i> , 2018, 9, 957.	12.8	58
14	Cell surface expression of homomeric GABAA receptors depends on single residues in subunit transmembrane domains. <i>Journal of Biological Chemistry</i> , 2018, 293, 13427-13439.	3.4	15
15	Epilepsy and intellectual disability linked protein Shrm4 interaction with GABABRs shapes inhibitory neurotransmission. <i>Nature Communications</i> , 2017, 8, 14536.	12.8	31
16	Barbiturates Bind in the GLIC Ion Channel Pore and Cause Inhibition by Stabilizing a Closed State. <i>Journal of Biological Chemistry</i> , 2017, 292, 1550-1558.	3.4	19
17	Crystal structures of a GABAA-receptor chimera reveal new endogenous neurosteroid-binding sites. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 977-985.	8.2	152
18	Context-Dependent Modulation of GABA_A-Mediated Tonic Currents. <i>Journal of Neuroscience</i> , 2016, 36, 607-621.	3.6	9

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19	Murine startle mutant <i>Nmf11</i> affects the structural stability of the glycine receptor and increases deactivation. <i>Journal of Physiology</i> , 2016, 594, 3589-3607.	2.9	10
20	Phospho-dependent Accumulation of GABABRs at Presynaptic Terminals after NMDAR Activation. <i>Cell Reports</i> , 2016, 16, 1962-1973.	6.4	18
21	Effects of <i>Gabra2</i> Point Mutations on Alcohol Intake: Increased Binge-Like and Blunted Chronic Drinking by Mice. <i>Alcoholism: Clinical and Experimental Research</i> , 2016, 40, 2445-2455.	2.4	10
22	Azogabazine; a photochromic antagonist of the GABA _A receptor. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 6676-6678.	2.8	19
23	Inhibitory Neurosteroids and the GABAA Receptor. <i>Advances in Pharmacology</i> , 2015, 72, 165-187.	2.0	28
24	Snake neurotoxin δ -bungarotoxin is an antagonist at native GABAA receptors. <i>Neuropharmacology</i> , 2015, 93, 28-40.	4.1	33
25	Modulation of neurosteroid potentiation by protein kinases at synaptic- and extrasynaptic-type GABAA receptors. <i>Neuropharmacology</i> , 2015, 88, 63-73.	4.1	27
26	Brief Report: Isogenic Induced Pluripotent Stem Cell Lines From an Adult With Mosaic Down Syndrome Model Accelerated Neuronal Ageing and Neurodegeneration. <i>Stem Cells</i> , 2015, 33, 2077-2084.	3.2	56
27	Interneuron- and GABAA receptor-specific inhibitory synaptic plasticity in cerebellar Purkinje cells. <i>Nature Communications</i> , 2015, 6, 7364.	12.8	42
28	The desensitization gate of inhibitory Cys-loop receptors. <i>Nature Communications</i> , 2015, 6, 6829.	12.8	117
29	Radixin regulates synaptic GABAA receptor density and is essential for reversal learning and short-term memory. <i>Nature Communications</i> , 2015, 6, 6872.	12.8	106
30	Pharmacological characterisation of murine $\alpha 4\beta 1$ GABAA receptors expressed in <i>Xenopus</i> oocytes. <i>BMC Neuroscience</i> , 2015, 16, 8.	1.9	6
31	Neuronal Inhibition under the Spotlight. <i>Neuron</i> , 2015, 88, 845-847.	8.1	1
32	Photo-antagonism of the GABAA receptor. <i>Nature Communications</i> , 2014, 5, 4454.	12.8	22
33	Mutations in the <i>Gabrb1</i> gene promote alcohol consumption through increased tonic inhibition. <i>Nature Communications</i> , 2013, 4, 2816.	12.8	44
34	Tracking Cell Surface Mobility of GPCRs Using δ -Bungarotoxin-Linked Fluorophores. <i>Methods in Enzymology</i> , 2013, 521, 109-129.	1.0	16
35	Protein kinase <i>C</i> regulates tonic GABA _A receptor-mediated inhibition in the hippocampus and thalamus. <i>European Journal of Neuroscience</i> , 2013, 38, 3408-3423.	2.6	34
36	Tyrosine Phosphorylation of GABAA Receptor $\alpha 2$ -Subunit Regulates Tonic and Phasic Inhibition in the Thalamus. <i>Journal of Neuroscience</i> , 2013, 33, 12718-12727.	3.6	15

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37	Methods for recording and measuring tonic GABA _A receptor-mediated inhibition. <i>Frontiers in Neural Circuits</i> , 2013, 7, 193.	2.8	56
38	Sushi domains confer distinct trafficking profiles on GABA _B receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12171-12176.	7.1	35
39	Synaptic Neurotransmitter-Gated Receptors. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a009662-a009662.	5.5	83
40	Benzodiazepines Modulate GABA _A Receptors by Regulating the Preactivation Step after GABA Binding. <i>Journal of Neuroscience</i> , 2012, 32, 5707-5715.	3.6	99
41	Use of Electrophysiological Methods in the Study of Recombinant and Native Neuronal Ligand-Gated Ion Channels. <i>Current Protocols in Pharmacology</i> , 2012, 59, Unit 11.4.	4.0	2
42	Synthesis and evaluation of highly potent GABA _A receptor antagonists based on gabazine (SR-95531). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 4252-4254.	2.2	18
43	The major central endocannabinoid directly acts at GABA _A receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18150-18155.	7.1	149
44	β -Aminobutyric Acid Type B (GABAB) Receptor Internalization Is Regulated by the R2 Subunit. <i>Journal of Biological Chemistry</i> , 2011, 286, 24324-24335.	3.4	20
45	β -Aminobutyric Acid Type B (GABAB) Receptor Internalization Is Regulated by the R2 Subunit. <i>Journal of Biological Chemistry</i> , 2011, 286, 24324-24335.	3.4	21
46	GABA Potency at GABA _A Receptors Found in Synaptic and Extrasynaptic Zones. <i>Frontiers in Cellular Neuroscience</i> , 2011, 6, 1.	3.7	134
47	Distinct activities of GABA agonists at synaptic and extrasynaptic GABA _A receptors. <i>Journal of Physiology</i> , 2010, 588, 1251-1268.	2.9	133
48	Prolonged activation of NMDA receptors promotes dephosphorylation and alters postendocytic sorting of GABA _B receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 13918-13923.	7.1	107
49	Binding, activation and modulation of Cys-loop receptors. <i>Trends in Pharmacological Sciences</i> , 2010, 31, 161-174.	8.7	276
50	Intracellular Chloride Ions Regulate the Time Course of GABA-Mediated Inhibitory Synaptic Transmission. <i>Journal of Neuroscience</i> , 2009, 29, 10416-10423.	3.6	63
51	Conserved site for neurosteroid modulation of GABA _A receptors. <i>Neuropharmacology</i> , 2009, 56, 149-154.	4.1	204
52	Mapping a molecular link between allosteric inhibition and activation of the glycine receptor. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 1084-1093.	8.2	33
53	Presynaptic NMDA Receptors. <i>Frontiers in Neuroscience</i> , 2008, , 313-328.	0.0	3
54	Identification of the Sites for CaMK-II-dependent Phosphorylation of GABA _A Receptors. <i>Journal of Biological Chemistry</i> , 2007, 282, 17855-17865.	3.4	43

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55	Phospho-Dependent Functional Modulation of GABAB Receptors by the Metabolic Sensor AMP-Dependent Protein Kinase. <i>Neuron</i> , 2007, 53, 233-247.	8.1	167
56	Single-channel recording of ligand-gated ion channels. <i>Nature Protocols</i> , 2007, 2, 2826-2841.	12.0	41
57	Neurosteroid binding sites on GABAA receptors. , 2007, 116, 7-19.		209
58	Mutations in the gene encoding GlyT2 (SLC6A5) define a presynaptic component of human startle disease. <i>Nature Genetics</i> , 2006, 38, 801-806.	21.4	232
59	Endogenous neurosteroids regulate GABAA receptors through two discrete transmembrane sites. <i>Nature</i> , 2006, 444, 486-489.	27.8	650
60	Extrasynaptic $\hat{\Gamma}^2$ subunit GABA receptors on rat hippocampal pyramidal neurons. <i>Journal of Physiology</i> , 2006, 577, 841-856.	2.9	153
61	Dynamic mobility of functional GABAA receptors at inhibitory synapses. <i>Nature Neuroscience</i> , 2005, 8, 889-897.	14.8	161
62	Molecular determinants of glycine receptor $\hat{\Gamma}^2$ subunit sensitivities to Zn ²⁺ -mediated inhibition. <i>Journal of Physiology</i> , 2005, 566, 657-670.	2.9	49
63	Proton modulation of recombinant GABA receptors: influence of GABA concentration and the $\hat{\Gamma}^2$ subunit TM2-TM3 domain. <i>Journal of Physiology</i> , 2005, 567, 365-377.	2.9	32
64	HEK293 cell line: A vehicle for the expression of recombinant proteins. <i>Journal of Pharmacological and Toxicological Methods</i> , 2005, 51, 187-200.	0.7	528
65	Molecular Basis for Zinc Potentiation at Strychnine-sensitive Glycine Receptors. <i>Journal of Biological Chemistry</i> , 2005, 280, 37877-37884.	3.4	74
66	Brain-Derived Neurotrophic Factor Modulates Fast Synaptic Inhibition by Regulating GABAA Receptor Phosphorylation, Activity, and Cell-Surface Stability. <i>Journal of Neuroscience</i> , 2004, 24, 522-530.	3.6	249
67	Retrograde activation of presynaptic NMDA receptors enhances GABA release at cerebellar interneuronâ€Purkinje cell synapses. <i>Nature Neuroscience</i> , 2004, 7, 525-533.	14.8	240
68	Differential agonist sensitivity of glycine receptor $\hat{\Gamma}^2$ subunit splice variants. <i>British Journal of Pharmacology</i> , 2004, 143, 19-26.	5.4	35
69	Activation of single heteromeric GABA receptor ion channels by full and partial agonists. <i>Journal of Physiology</i> , 2004, 557, 389-413.	2.9	58
70	Zn ²⁺ Ions: Modulators of Excitatory and Inhibitory Synaptic Activity. <i>Neuroscientist</i> , 2004, 10, 432-442.	3.5	207
71	Zinc-mediated inhibition of GABAA receptors: discrete binding sites underlie subtype specificity. <i>Nature Neuroscience</i> , 2003, 6, 362-369.	14.8	226
72	Identification of a $\hat{\Gamma}^2$ Subunit TM2 Residue Mediating Proton Modulation of GABA Type A Receptors. <i>Journal of Neuroscience</i> , 2002, 22, 5328-5333.	3.6	40

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73	Cyclic AMP-dependent protein kinase phosphorylation facilitates GABAB receptor-effector coupling. <i>Nature Neuroscience</i> , 2002, 5, 415-424.	14.8	115
74	GABAA receptor cell surface number and subunit stability are regulated by the ubiquitin-like protein Plic-1. <i>Nature Neuroscience</i> , 2001, 4, 908-916.	14.8	217
75	Constructing inhibitory synapses. <i>Nature Reviews Neuroscience</i> , 2001, 2, 240-250.	10.2	422
76	Proton sensitivity of rat cerebellar granule cell GABA A receptors: dependence on neuronal development. <i>Journal of Physiology</i> , 2001, 530, 219-233.	2.9	32
77	Constitutive Endocytosis of GABA _A Receptors by an Association with the Adaptin AP2 Complex Modulates Inhibitory Synaptic Currents in Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2000, 20, 7972-7977.	3.6	281
78	Identification of Residues within GABA _A Receptor α Subunits That Mediate Specific Assembly with Receptor β Subunits. <i>Journal of Neuroscience</i> , 2000, 20, 1297-1306.	3.6	67
79	GABAA Receptor Phosphorylation and Functional Modulation in Cortical Neurons by a Protein Kinase C-dependent Pathway. <i>Journal of Biological Chemistry</i> , 2000, 275, 38856-38862.	3.4	162
80	Identification of Amino Acid Residues within GABA _A Receptor β Subunits that Mediate Both Homomeric and Heteromeric Receptor Expression. <i>Journal of Neuroscience</i> , 1999, 19, 6360-6371.	3.6	107
81	Cell Surface Stability of β -Aminobutyric Acid Type A Receptors. <i>Journal of Biological Chemistry</i> , 1999, 274, 36565-36572.	3.4	167
82	Identification of an inhibitory Zn ²⁺ -binding site on the human glycine receptor α 1 subunit. <i>Journal of Physiology</i> , 1999, 520, 53-64.	2.9	89
83	Modulation of neuronal and recombinant GABA _A receptors by redox reagents. <i>Journal of Physiology</i> , 1999, 517, 35-50.	2.9	74
84	Subcellular Localization and Endocytosis of Homomeric β 2 Subunit Splice Variants of β -Aminobutyric Acid Type A Receptors. <i>Molecular and Cellular Neurosciences</i> , 1999, 13, 259-271.	2.2	74
85	Adjacent phosphorylation sites on GABAA receptor β 2 subunits determine regulation by cAMP-dependent protein kinase. <i>Nature Neuroscience</i> , 1998, 1, 23-28.	14.8	211
86	Interaction of H ⁺ and Zn ²⁺ on recombinant and native rat neuronal GABA _A receptors. <i>Journal of Physiology</i> , 1998, 507, 639-652.	2.9	63
87	Identification of a Zn ²⁺ -binding site on the marine GABA _A receptor complex: Dependence on the Second transmembrane domain of β 2 subunits. <i>Journal of Physiology</i> , 1997, 505, 633-640.	2.9	72
88	Pharmacological and Physiological Characterization of Murine Homomeric β 3 GABA _A Receptors. <i>European Journal of Neuroscience</i> , 1997, 9, 2225-2235.	2.6	114
89	Assembly and Cell Surface Expression of Heteromeric and Homomeric β -Aminobutyric Acid Type A Receptors. <i>Journal of Biological Chemistry</i> , 1996, 271, 89-96.	3.4	293
90	Modulation of GABAA receptors by tyrosine phosphorylation. <i>Nature</i> , 1995, 377, 344-348.	27.8	208

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91	Modulation of long-term potentiation in rat hippocampal pyramidal neurons by zinc. Pflugers Archiv European Journal of Physiology, 1994, 427, 481-486.	2.8	77
92	Modulation of inhibitory and excitatory amino acid receptor ion channels by zinc. Progress in Neurobiology, 1994, 42, 393-441.	5.7	416
93	Speciesâ€dependent functional properties of nonâ€NMDA receptors expressed in <i>Xenopus laevis</i> oocytes injected with mammalian and avian brain mRNA. British Journal of Pharmacology, 1994, 111, 803-810.	5.4	4
94	Regulation of GABAA receptor function by protein kinase C phosphorylation. Neuron, 1994, 12, 1081-1095.	8.1	290
95	Giant GABAB-mediated Synaptic Potentials Induced by Zinc in the Rat Hippocampus: Paradoxical Effects of Zinc on the GABABReceptor. European Journal of Neuroscience, 1993, 5, 430-436.	2.6	14
96	Cloning and functional expression of a brain G-protein-coupled ATP receptor. FEBS Letters, 1993, 324, 219-225.	2.8	496
97	Thiocyanate ions selectively antagonize AMPAâ€evoked responses in <i>Xenopus laevis</i> oocytes microinjected with rat brain mRNA. British Journal of Pharmacology, 1993, 109, 779-787.	5.4	24
98	A physiological role for endogenous zinc in rat hippocampal synaptic neurotransmission. Nature, 1991, 349, 521-524.	27.8	367