Tim G Hales

List of Publications by Year
in descending order

64 papers	4,452 citations	136950 32 h-index	110387 64 g-index
64 all docs	64 docs citations	64 times ranked	3875 citing authors

#	Article	IF	Citations
1	The 5-HT3B subunit is a major determinant of serotonin-receptor function. Nature, 1999, 397, 359-363.	27.8	559
2	Insensitivity to anaesthetic agents conferred by a class of GABAA receptor subunit. Nature, 1997, 385, 820-823.	27.8	392
3	The actions of propofol on inhibitory amino acid receptors of bovine adrenomedullary chromaffin cells and rodent central neurones. British Journal of Pharmacology, 1991, 104, 619-628.	5.4	319
4	Perioperative opioid analgesiaâ€"when is enough too much? A review of opioid-induced tolerance and hyperalgesia. Lancet, The, 2019, 393, 1558-1568.	13.7	312
5	Voltage-Gated Na+ Channel SCN5A Is a Key Regulator of a Gene Transcriptional Network That Controls Colon Cancer Invasion. Cancer Research, 2010, 70, 6957-6967.	0.9	239
6	The 5-HT3 receptor â€“ the relationship between structure and function. Neuropharmacology, 2009, 56, 273-284.	4.1	228
7	GABAA receptors mediate inhibition of T cell responses. Journal of Neuroimmunology, 1999, 96, 21-28.	2.3	155
8	GABA Has Excitatory Actions on GnRH-Secreting Immortalized Hypothalamic (GT1-7) Neurons. Neuroendocrinology, 1994, 59, 297-308.	2.5	133
9	A Novel Class of Ligand-gated Ion Channel Is Activated by Zn2+. Journal of Biological Chemistry, 2003, 278, 712-717.	3.4	130
10	The properties of 5â€HT₃ receptors in clonal cell lines studied by patchâ€clamp techniques. British Journal of Pharmacology, 1989, 97, 27-40.	5.4	125
11	Common Determinants of Single Channel Conductance within the Large Cytoplasmic Loop of 5-Hydroxytryptamine Type 3 and Î±4Î²2 Nicotinic Acetylcholine Receptors. Journal of Biological Chemistry, 2006, 281, 8062-8071.	3.4	90
12	Â-Arrestin2 and c-Src Regulate the Constitutive Activity and Recycling of Â Opioid Receptors in Dorsal Root Ganglion Neurons. Journal of Neuroscience, 2007, 27, 5092-5104.	3.6	90
13	Modulation by general anaesthetics of rat GABAA receptors comprised of Î± 1Î² 3 and Î² 3 subunits expressed in human embryonic kidney 293 cells. British Journal of Pharmacology, 1997, 120, 899-909.	5.4	88
14	Potentiation, activation and blockade of GABA_A receptors of clonal murine hypothalamic GT1â€7 neurones by propofol. British Journal of Pharmacology, 1995, 115, 953-960.	5.4	86
15	Functional Properties of CaV1.3 (Î±1D) L-type Ca2+ Channel Splice Variants Expressed by Rat Brain and Neuroendocrine GH3 Cells. Journal of Biological Chemistry, 2001, 276, 38727-38737.	3.4	86
16	Evidence for Expression of Heteromeric Serotonin 5-HT3 Receptors in Rodents. Journal of Neurochemistry, 2001, 75, 240-247.	3.9	82
17	Molecular determinants of single-channel conductance and ion selectivity in the Cys-loop family: insights from the 5-HT3 receptor. Trends in Pharmacological Sciences, 2005, 26, 587-594.	8.7	80
18	Voltage-gated Na+ Channel Activity Increases Colon Cancer Transcriptional Activity and Invasion Via Persistent MAPK Signaling. Scientific Reports, 2015, 5, 11541.	3.3	75

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19	Tonically Active GABAA Receptors in Hippocampal Pyramidal Neurons Exhibit Constitutive GABA-Independent Gating. Molecular Pharmacology, 2007, 71, 539-548.	2.3	74
20	The epilepsy mutation, Î³2(R43Q) disrupts a highly conserved inter-subunit contact site, perturbing the biogenesis of GABAA receptors. Molecular and Cellular Neurosciences, 2005, 29, 120-127.	2.2	66
21	Coexpression of Î´-Opioid Receptors with Î¼ Receptors in GH3 Cells Changes the Functional Response to Î¼ Agonists from Inhibitory to Excitatory. Molecular Pharmacology, 2003, 63, 89-95.	2.3	58
22	L-type Ca2+ Channels and K+ Channels Specifically Modulate the Frequency and Amplitude of Spontaneous Ca2+ Oscillations and Have Distinct Roles in Prolactin Release in GH3 Cells. Journal of Biological Chemistry, 1999, 274, 7508-7515.	3.4	52
23	How Anesthetic, Analgesic and Other Non-Surgical Techniques During Cancer Surgery Might Affect Postoperative Oncologic Outcomes: A Summary of Current State of Evidence. Cancers, 2019, 11, 592.	3.7	50
24	Steroid Modulation of the GABA _A Receptor Complex: Electrophysiological Studies. Novartis Foundation Symposium, 1990, 153, 56-82.	1.1	43
25	Functional analysis of cloned opioid receptors in transfected cell lines. Neurochemical Research, 1996, 21, 1277-1285.	3.3	42
26	The search for the â€œnextâ€•euphoric non-fentanil novel synthetic opioids on the illicit drugs market: current status and horizon scanning. Forensic Toxicology, 2019, 37, 1-16.	2.4	42
27	Structural Determinants of Ca2+ Permeability and Conduction in the Human 5-Hydroxytryptamine Type 3A Receptor. Journal of Biological Chemistry, 2008, 283, 19301-19313.	3.4	41
28	Novel structural determinants of single channel conductance and ion selectivity in 5-hydroxytryptamine type 3 and nicotinic acetylcholine receptors. Journal of Physiology, 2010, 588, 587-596.	2.9	41
29	Kinetics and Spontaneous Open Probability Conferred by the Â Subunit of the GABAA Receptor. Journal of Neuroscience, 2005, 25, 10462-10468.	3.6	40
30	Induction of Î´ Opioid Receptor Function by Up-Regulation of Membrane Receptors in Mouse Primary Afferent Neurons. Molecular Pharmacology, 2005, 68, 1688-1698.	2.3	36
31	Evidence for the formation of functionally distinct Î±Î²Î³Îµ GABA A receptors. Journal of Physiology, 2001, 537, 101-113.	2.9	35
32	The Minimum M3-M4 Loop Length of Neurotransmitter-activated Pentameric Receptors Is Critical for the Structural Integrity of Cytoplasmic Portals. Journal of Biological Chemistry, 2013, 288, 21558-21568.	3.4	35
33	Î´ Receptors Are Required for Full Inhibitory Coupling of Î¼ Receptors to Voltage-Dependent Ca2+ Channels in Dorsal Root Ganglion Neurons. Molecular Pharmacology, 2009, 76, 134-143.	2.3	34
34	An Asymmetric Contribution to Î³-Aminobutyric Type A Receptor Function of a Conserved Lysine within TM2â€“3 of Î±1, Î²2, and Î³2 Subunits. Journal of Biological Chemistry, 2006, 281, 17034-17043.	3.4	32
35	A genome-wide association study finds genetic variants associated with neck or shoulder pain in UK Biobank. Human Molecular Genetics, 2020, 29, 1396-1404.	2.9	32
36	The promiscuous role of the epsilon subunit in GABAA receptor biogenesis. Molecular and Cellular Neurosciences, 2008, 37, 610-621.	2.2	29

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37	High Affinity Binding of Epibatidine to Serotonin Type 3 Receptors. Journal of Biological Chemistry, 2008, 283, 9659-9665.	3.4	28
38	Direct Subunit-Dependent Multimodal 5-Hydroxytryptamine₃Receptor Antagonism by Methadone. Molecular Pharmacology, 2009, 75, 908-917.	2.3	27
39	Dynamic Modification of a Mutant Cytoplasmic Cysteine Residue Modulates the Conductance of the Human 5-HT3A Receptor. Journal of Biological Chemistry, 2007, 282, 6172-6182.	3.4	25
40	Analgesic Tone Conferred by Constitutively Active Mu Opioid Receptors in Mice Lacking Î²-Arrestin 2. Molecular Pain, 2011, 7, 1744-8069-7-24.	2.1	24
41	TRV130 partial agonism and capacity to induce antiâ€nociceptive tolerance revealed through reducing available Î¼â€opioid receptor number. British Journal of Pharmacology, 2021, 178, 1855-1868.	5.4	24
42	Pharmacological and nutritional targeting of voltage-gated sodium channels in the treatment of cancers. IScience, 2021, 24, 102270.	4.1	23
43	The influence of an endogenous Î²3 subunit on recombinant GABAA receptor assembly and pharmacology in WSS-1 cells and transiently transfected HEK293 cells. Neuropharmacology, 2000, 39, 611-620.	4.1	22
44	The 5â€HT3B subunit affects highâ€potency inhibition of 5â€HT₃ receptors by morphine. British Journal of Pharmacology, 2012, 165, 693-704.	5.4	22
45	Potent Inactivation-Dependent Inhibition of Adult and Neonatal NaV1.5 Channels by Lidocaine and Levobupivacaine. Anesthesia and Analgesia, 2018, 127, 650-660.	2.2	21
46	Morphine activation of mu opioid receptors causes disinhibition of neurons in the ventral tegmental area mediated by Î²-arrestin2 and c-Src. Scientific Reports, 2017, 7, 9969.	3.3	20
47	Src Kinase Inhibition Attenuates Morphine Tolerance without Affecting Reinforcement or Psychomotor Stimulation. Anesthesiology, 2017, 127, 878-889.	2.5	18
48	Influences on blockade by tâ€butylbicycloâ€phosphoroâ€thionate of GABA_A receptor spontaneous gating, agonist activation and desensitization. Journal of Physiology, 2012, 590, 163-178.	2.9	16
49	Cloned Î´-Opioid Receptors in GH3 Cells Inhibit Spontaneous Ca2+ Oscillations and Prolactin Release ThroughK IR Channel Activation. Journal of Neurophysiology, 2000, 83, 2691-2698.	1.8	15
50	Development of an undergraduate pharmacogenomics curriculum. Pharmacogenomics, 2009, 10, 1979-1986.	1.3	15
51	From inhibition to excitation: Functional effects of interaction between opioid receptors. Life Sciences, 2004, 76, 479-485.	4.3	14
52	Mutagenic Analysis of the Intracellular Portals of the Human 5-HT3A Receptor. Journal of Biological Chemistry, 2013, 288, 31592-31601.	3.4	14
53	Agonistâ€and antagonistâ€induced upâ€regulation of surface 5â€<scp>HT</scp>₃<scp>A</scp> receptors. British Journal of Pharmacology, 2015, 172, 4066-4077.	5.4	14
54	Activation of Î¼â€opioid receptors by <scp>MTâ€45</scp> (1â€cyclohexylâ€4â€(1,2â€diphenylethyl)piperazine) and its fluorinated derivatives. British Journal of Pharmacology, 2020, 177, 3436-3448.	5.4	8

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55	Engineering a surrogate human heteromeric Î±/Î² glycine receptor orthosteric site exploiting the structural homology and stability of acetylcholine-binding protein. IUCrJ, 2019, 6, 1014-1023.	2.2	8
56	Fluorophore assisted light inactivation (FALI) of recombinant 5-HT3A receptor constitutive internalization and function. Molecular and Cellular Neurosciences, 2011, 47, 79-92.	2.2	7
57	A role for loop G in the Î²1 strand in GABA_A receptor activation. Journal of Physiology, 2016, 594, 5555-5571.	2.9	7
58	Menthol reduces phototoxicity pain in a mouse model of photodynamic therapy. Pain, 2018, 159, 284-297.	4.2	7
59	A conserved cysteine residue in the third transmembrane domain is essential for homomeric 5-HT3receptor function. Journal of Physiology, 2010, 588, 603-616.	2.9	6
60	Loop G in the GABA_A receptor Î±1 subunit influences gating efficacy. Journal of Physiology, 2017, 595, 1725-1741.	2.9	5
61	Amino acid substitutions in the human homomeric Î²3 GABAA receptor that enable activation by GABA. Journal of Biological Chemistry, 2019, 294, 2375-2385.	3.4	5
62	A Structural Rationale for N â€Methylbicuculline Acting as a Promiscuous Competitive Antagonist of Inhibitory Pentameric Ligandâ€Gated Ion Channels. ChemBioChem, 2020, 21, 1526-1533.	2.6	3
63	Validation of the Nepali Version of the Self-reported Leeds Assessment of Neuropathic Symptoms and Signs (S-LANSS) in Adults With Chronic Pain and Predominantly Low-literacy Levels. Journal of Pain, 2022, 23, 424-433.	1.4	2
64	Mechanisms of anaesthetics: lessons learned from creatures great and small. Anaesthesia, 2011, 66, 334-337.	3.8	1