

# Hugh C Hemmings Jr

## List of Publications by Year in descending order

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115  
papers

6,489  
citations

81743

39  
h-index

66788

78  
g-index

126  
all docs

126  
docs citations

126  
times ranked

5223  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of General Anesthetics on Synaptic Transmission and Plasticity. <i>Current Neuropharmacology</i> , 2022, 20, 27-54.	1.4	15
2	Distinct effects of volatile and intravenous anaesthetics on presynaptic calcium dynamics in mouse hippocampal GABAergic neurones. <i>British Journal of Anaesthesia</i> , 2022, 128, 1019-1028.	1.5	3
3	Editorsâ€™ Note: Ueshima H, Otake H. Addition of transversus thoracic muscle plane block to pectoral nerves block provides more effective perioperative pain relief than pectoral nerves block alone for breast cancer surgery. <i>Br J Anaesth</i> 2017;118:439â€“443. <i>British Journal of Anaesthesia</i> , 2022, 128, 597.	1.5	0
4	Modulation of dendritic spines by protein phosphatase-1. <i>Advances in Pharmacology</i> , 2021, 90, 117-144.	1.2	2
5	Improving perioperative brain health: an expert consensus review of key actions for the perioperative care team. <i>British Journal of Anaesthesia</i> , 2021, 126, 423-432.	1.5	78
6	Preprints in perioperative medicine: immediacy for the greater good. <i>British Journal of Anaesthesia</i> , 2021, 126, 915-918.	1.5	3
7	Isoflurane Suppresses Hippocampal High-frequency Ripples by Differentially Modulating Pyramidal Neurons and Interneurons in Mice. <i>Anesthesiology</i> , 2021, 135, 122-135.	1.3	4
8	Selective inhibition of gamma aminobutyric acid release from mouse hippocampal interneurone subtypes by the volatile anaesthetic isoflurane. <i>British Journal of Anaesthesia</i> , 2021, 127, 587-599.	1.5	8
9	Turning the page on 2021: an eventful year for the <i>British Journal of Anaesthesia</i> . <i>British Journal of Anaesthesia</i> , 2021, , .	1.5	1
10	Relevance of Cortical and Hippocampal Interneuron Functional Diversity to General Anesthetic Mechanisms: A Narrative Review. <i>Frontiers in Synaptic Neuroscience</i> , 2021, 13, 812905.	1.3	1
11	Further retractions of articles by Joachim Boldt. <i>British Journal of Anaesthesia</i> , 2020, 125, 409-411.	1.5	28
12	Excellence in editorials: fulfilling their critical role in the medical literature. <i>British Journal of Anaesthesia</i> , 2020, 125, 639-641.	1.5	4
13	Chronic pain diagnosis in refugee torture survivors: A prospective, blinded diagnostic accuracy study. <i>PLoS Medicine</i> , 2020, 17, e1003108.	3.9	9
14	Women in anaesthesia, a special issue of the <i>British Journal of Anaesthesia</i> . <i>British Journal of Anaesthesia</i> , 2020, 124, e40-e43.	1.5	7
15	A special issue on respiration and the airway: critical topics at a challenging time. <i>British Journal of Anaesthesia</i> , 2020, 125, 1-4.	1.5	8
16	Towards a Comprehensive Understanding of Anesthetic Mechanisms of Action: A Decade of Discovery. <i>Trends in Pharmacological Sciences</i> , 2019, 40, 464-481.	4.0	156
17	Role of specific presynaptic calcium channel subtypes in isoflurane inhibition of synaptic vesicle exocytosis in rat hippocampal neurones. <i>British Journal of Anaesthesia</i> , 2019, 123, 219-227.	1.5	16
18	The good, the bad, and the ugly: the many faces of opioids. <i>British Journal of Anaesthesia</i> , 2019, 122, 705-707.	1.5	11

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19	Differential Inhibition of Neuronal Sodium Channel Subtypes by the General Anesthetic Isoflurane. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 369, 200-211.	1.3	15
20	Isoflurane Modulates Hippocampal Cornu Ammonis Pyramidal Neuron Excitability by Inhibition of Both Transient and Persistent Sodium Currents in Mice. <i>Anesthesiology</i> , 2019, 131, 94-104.	1.3	13
21	Change management: the British Journal of Anaesthesia in 2018. <i>British Journal of Anaesthesia</i> , 2019, 122, 1-3.	1.5	1
22	Pharmacology of Inhaled Anesthetics. , 2019, , 217-240.		5
23	Isoflurane Inhibits Dopaminergic Synaptic Vesicle Exocytosis Coupled to Ca <sub>v</sub> 2.1 and Ca <sub>v</sub> 2.2 in Rat Midbrain Neurons. <i>ENeuro</i> , 2019, 6, ENEURO.0278-18.2018.	0.9	14
24	Clinical concentrations of chemically diverse general anesthetics minimally affect lipid bilayer properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3109-3114.	3.3	45
25	Isoflurane modulates activation and inactivation gating of the prokaryotic Na <sup>+</sup> channel NaChBac. <i>Journal of General Physiology</i> , 2017, 149, 623-638.	0.9	32
26	A global vision for the British Journal of Anaesthesia. <i>British Journal of Anaesthesia</i> , 2017, 118, 1-2.	1.5	4
27	Divergent effects of anesthetics on lipid bilayer properties and sodium channel function. <i>European Biophysics Journal</i> , 2017, 46, 617-626.	1.2	30
28	Sodium channel subtypes are differentially localized to pre- and post-synaptic sites in rat hippocampus. <i>Journal of Comparative Neurology</i> , 2017, 525, 3563-3578.	0.9	15
29	Mechanisms of Intravenous Anesthetic Action. , 2017, , 79-95.		0
30	Î±2-Adrenergic Receptor and Isoflurane Modulation of Presynaptic Ca <sup>2+</sup> Influx and Exocytosis in Hippocampal Neurons. <i>Anesthesiology</i> , 2016, 125, 535-546.	1.3	22
31	Relevance of Clinical Relevance. <i>Anesthesiology</i> , 2016, 125, 821-822.	1.3	0
32	Activity-dependent depression of neuronal sodium channels by the general anaesthetic isoflurane. <i>British Journal of Anaesthesia</i> , 2015, 115, 112-121.	1.5	22
33	Isoflurane inhibits synaptic vesicle exocytosis through reduced Ca <sup>2+</sup> influx, not Ca <sup>2+</sup> -exocytosis coupling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11959-11964.	3.3	78
34	Regulation of Protein Phosphatase 1l by Cdc25C-associated Kinase 1 (C-TAK1) and PFTAIRE Protein Kinase. <i>Journal of Biological Chemistry</i> , 2014, 289, 23893-23900.	1.6	5
35	Volatile anesthetics inhibit sodium channels without altering bulk lipid bilayer properties. <i>Journal of General Physiology</i> , 2014, 144, 545-560.	0.9	25
36	Phytochemicals Perturb Membranes and Promiscuously Alter Protein Function. <i>ACS Chemical Biology</i> , 2014, 9, 1788-1798.	1.6	241

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37	Sociosexual investigation in sexually experienced, hormonally manipulated male leopard geckos: Relation with phosphorylated DARPP $\epsilon$ 32 in dopaminergic pathways. <i>Journal of Experimental Zoology</i> , 2014, 321, 595-602.	1.2	3
38	Isoflurane Reversibly Destabilizes Hippocampal Dendritic Spines by an Actin-Dependent Mechanism. <i>PLoS ONE</i> , 2014, 9, e102978.	1.1	28
39	HCN1 Channels as Targets for Anesthetic and Nonanesthetic Propofol Analogs in the Amelioration of Mechanical and Thermal Hyperalgesia in a Mouse Model of Neuropathic Pain. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2013, 345, 363-373.	1.3	59
40	Pharmacology of Inhaled Anesthetics. , 2013, , 159-179.		1
41	Increased Risk of Awareness under Anesthesia. <i>Anesthesiology</i> , 2013, 119, 1236-1238.	1.3	5
42	Sodium Channels as Targets for Volatile Anesthetics. <i>Frontiers in Pharmacology</i> , 2012, 3, 50.	1.6	62
43	Regional differences in the effects of isoflurane on neurotransmitter release. <i>Neuropharmacology</i> , 2011, 61, 699-706.	2.0	22
44	Sleep and Anesthesia. <i>Anesthesiology</i> , 2011, 115, 8-9.	1.3	5
45	Thiazolidinedione insulin sensitizers alter lipid bilayer properties and voltage-dependent sodium channel function: implications for drug discovery. <i>Journal of General Physiology</i> , 2011, 138, 249-270.	0.9	48
46	The role and regulation of protein phosphatase $\epsilon$ 1 following oxygen and glucose deprivation in neuroblastoma cells. <i>FASEB Journal</i> , 2011, 25, 954.5.	0.2	0
47	Bidirectional modulation of isoflurane potency by intrathecal tetrodotoxin and veratridine in rats. <i>British Journal of Pharmacology</i> , 2010, 159, 872-878.	2.7	18
48	Regional differences in nerve terminal Na <sup>+</sup> channel subtype expression and Na <sup>+</sup> channel $\epsilon$ -dependent glutamate and GABA release in rat CNS. <i>Journal of Neurochemistry</i> , 2010, 113, 1611-1620.	2.1	15
49	AGAP1/AP-3-dependent endocytic recycling of M5 muscarinic receptors promotes dopamine release. <i>EMBO Journal</i> , 2010, 29, 2813-2826.	3.5	78
50	Inhaled Anesthetics: Mechanisms of Action. , 2010, , 515-538.		9
51	Positively Active. <i>Anesthesiology</i> , 2010, 113, 250-252.	1.3	7
52	Sodium channels and the synaptic mechanisms of inhaled anaesthetics. <i>British Journal of Anaesthesia</i> , 2009, 103, 61-69.	1.5	63
53	Molecular Targets of General Anesthetics in the Nervous System. , 2009, , 11-31.		3
54	Comparative Effects of Halogenated Inhaled Anesthetics on Voltage-gated Na <sup>+</sup> Channel Function. <i>Anesthesiology</i> , 2009, 110, 582-590.	1.3	61

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55	Isoflurane Inhibits the Tetrodotoxin-resistant Voltage-gated Sodium Channel Nav1.8. <i>Anesthesiology</i> , 2009, 111, 591-599.	1.3	43
56	Protein phosphatase-2A is activated in pig brain following cardiac arrest and resuscitation. <i>Metabolic Brain Disease</i> , 2008, 23, 95-104.	1.4	2
57	Activation of brain protein phosphatase-1 following cardiac arrest and resuscitation involving an interaction with 14-3-3 $\beta$ . <i>Journal of Neurochemistry</i> , 2008, 105, 2029-2038.	2.1	7
58	Is a New Paradigm Needed to Explain How Inhaled Anesthetics Produce Immobility?. <i>Anesthesia and Analgesia</i> , 2008, 107, 832-848.	1.1	87
59	Intrathecal Veratridine Administration Increases Minimum Alveolar Concentration in Rats. <i>Anesthesia and Analgesia</i> , 2008, 107, 875-878.	1.1	16
60	Xenon and the Pharmacology of Fear. <i>Anesthesiology</i> , 2008, 109, 954-955.	1.3	5
61	Isoflurane Inhibits NaChBac, a Prokaryotic Voltage-Gated Sodium Channel. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007, 322, 1076-1083.	1.3	45
62	Regulation of Protein Phosphatase Inhibitor-1 by Cyclin-dependent Kinase 5. <i>Journal of Biological Chemistry</i> , 2007, 282, 16511-16520.	1.6	27
63	Isoform-selective Effects of Isoflurane on Voltage-gated Na <sup>+</sup> Channels. <i>Anesthesiology</i> , 2007, 107, 91-98.	1.3	56
64	General anesthetics selectively modulate glutamatergic and dopaminergic signaling via site-specific phosphorylation in vivo. <i>Neuropharmacology</i> , 2007, 53, 619-630.	2.0	42
65	Differential regulation of protein phosphatase-11 by neurabin. <i>Biochemical and Biophysical Research Communications</i> , 2007, 358, 140-144.	1.0	1
66	Phosphorylation of CREB and DARPP-32 during late LTP at hippocampal to prefrontal cortex synapses in vivo. <i>Synapse</i> , 2007, 61, 24-28.	0.6	26
67	Reduced inhibition of cortical glutamate and GABA release by halothane in mice lacking the K <sup>+</sup> channel, TREK $\beta$ . <i>British Journal of Pharmacology</i> , 2007, 152, 939-945.	2.7	30
68	D1 receptor modulation of memory retrieval performance is associated with changes in pCREB and pDARPP-32 in rat prefrontal cortex. <i>Behavioural Brain Research</i> , 2006, 171, 127-133.	1.2	62
69	Do General Anesthetics Add Up?. <i>Anesthesiology</i> , 2006, 104, 1120-1122.	1.3	9
70	Volatile Anesthetic Effects on Glutamate versus GABA Release from Isolated Rat Cortical Nerve Terminals: 4-Aminopyridine-Evoked Release. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 316, 216-223.	1.3	39
71	Volatile Anesthetic Effects on Glutamate versus GABA Release from Isolated Rat Cortical Nerve Terminals: Basal Release. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 316, 208-215.	1.3	63
72	The General Anesthetic Isoflurane Depresses Synaptic Vesicle Exocytosis. <i>Molecular Pharmacology</i> , 2005, 67, 1591-1599.	1.0	65

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73	Depression by Isoflurane of the Action Potential and Underlying Voltage-Gated Ion Currents in Isolated Rat Neurohypophysial Nerve Terminals. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005, 312, 801-808.	1.3	53
74	Phosphorylation of spinophilin by ERK and cyclin-dependent PK 5 (Cdk5). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3489-3494.	3.3	48
75	Emerging molecular mechanisms of general anesthetic action. <i>Trends in Pharmacological Sciences</i> , 2005, 26, 503-510.	4.0	487
76	Distinct rat neurohypophysial nerve terminal populations identified by size, electrophysiological properties and neuropeptide content. <i>Brain Research</i> , 2004, 1024, 203-211.	1.1	7
77	Rapamycin causes activation of protein phosphatase-2A1 and nuclear translocation of PCNA in CD4+ T cells. <i>Biochemical and Biophysical Research Communications</i> , 2004, 323, 645-651.	1.0	17
78	Neuroprotection by Na <sup>+</sup> Channel Blockade. <i>Journal of Neurosurgical Anesthesiology</i> , 2004, 16, 100-101.	0.6	11
79	Isoflurane and Propofol Inhibit Voltage-Gated Sodium Channels in Isolated Rat Neurohypophysial Nerve Terminals. <i>Molecular Pharmacology</i> , 2003, 64, 373-381.	1.0	101
80	Selective Depression by General Anesthetics of Glutamate Versus GABA Release from Isolated Cortical Nerve Terminals. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003, 304, 1188-1196.	1.3	90
81	Effects of Isoflurane and Propofol on Glutamate and GABA Transporters in Isolated Cortical Nerve Terminals. <i>Anesthesiology</i> , 2003, 98, 364-372.	1.3	40
82	General Anesthetic Actions on Norepinephrine, Dopamine, and $\hat{1}^3$ -Aminobutyric Acid Transporters in Stably Transfected Cells. <i>Anesthesia and Analgesia</i> , 2002, 95, 893-899.	1.1	19
83	The Effects of General Anesthetics on Norepinephrine Release from Isolated Rat Cortical Nerve Terminals. <i>Anesthesia and Analgesia</i> , 2002, 95, 1274-1281.	1.1	26
84	Selective Depression by Isoflurane and Propofol of Glutamate vs. GABA Release from Isolated Cortical Nerve Terminals. <i>Anesthesiology</i> , 2002, 96, A818.	1.3	2
85	Isoflurane and Propofol Inhibit Presynaptic Na <sup>+</sup> Channels. <i>Anesthesiology</i> , 2002, 96, A776.	1.3	0
86	Distribution of DARPP-32 immunoreactive structures in the quail brain: anatomical relationship with dopamine and aromatase. <i>Journal of Chemical Neuroanatomy</i> , 2001, 21, 23-39.	1.0	32
87	Opposing Changes in Phosphorylation of Specific Sites in Synapsin I During Ca <sup>2+</sup> -Dependent Glutamate Release in Isolated Nerve Terminals. <i>Journal of Neuroscience</i> , 2001, 21, 7944-7953.	1.7	169
88	Isoflurane Pretreatment Ameliorates Postischemic Neurologic Dysfunction and Preserves Hippocampal Ca <sup>2+</sup> /Calmodulin-dependent Protein Kinase in a Canine Cardiac Arrest Model. <i>Anesthesiology</i> , 2000, 93, 1285-1293.	1.3	66
89	Drugs of abuse modulate the phosphorylation of ARPP-21, a cyclic AMP-regulated phosphoprotein enriched in the basal ganglia. <i>Neuropharmacology</i> , 2000, 39, 1637-1644.	2.0	36
90	Inhibition of voltage-dependent sodium channels by Ro 31-8220, a $\hat{1}^{\sim}$ specific $\hat{1}^{\sim}$ ™ protein kinase C inhibitor. <i>FEBS Letters</i> , 2000, 473, 265-268.	1.3	34

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91	Phosphorylation of DARPP-32 by Cdk5 modulates dopamine signalling in neurons. <i>Nature</i> , 1999, 402, 669-671.	13.7	538
92	Regulation of Neurabin I Interaction with Protein Phosphatase 1 by Phosphorylation. <i>Biochemistry</i> , 1999, 38, 12943-12949.	1.2	92
93	Effects of anticonvulsants on veratridine- and KCl-evoked glutamate release from rat cortical synaptosomes. <i>Neuroscience Letters</i> , 1999, 276, 127-130.	1.0	67
94	General anesthetic effects on protein kinase C. <i>Toxicology Letters</i> , 1998, 100-101, 89-95.	0.4	22
95	Localization of dopamine D1 receptors and dopaminergic neurons in the chick forebrain. <i>Journal of Neurochemistry</i> , 1997, 388, 146-168.		66
96	CHEB, a convulsant barbiturate, evokes calcium-dependent spontaneous glutamate release from rat cerebrocortical synaptosomes. <i>Neuropharmacology</i> , 1996, 35, 695-701.	2.0	7
97	A comparison: The efficacy of sevoflurane-nitrous oxide or propofol-nitrous oxide for the induction and maintenance of general anesthesia. <i>Journal of Clinical Anesthesia</i> , 1996, 8, 639-643.	0.7	25
98	Stimulus-dependent Phosphorylation of MacMARCKS, a Protein Kinase C Substrate, in Nerve Termini and PC12 Cells. <i>Journal of Biological Chemistry</i> , 1996, 271, 1174-1178.	1.6	22
99	Biochemical Characterization of the Stimulatory Effects of Halothane and Propofol on Purified Brain Protein Kinase C. <i>Anesthesia and Analgesia</i> , 1995, 81, 1216-1222.	1.1	29
100	Modulation of calcium currents by a D1 dopaminergic protein kinase/phosphatase cascade in rat neostriatal neurons. <i>Neuron</i> , 1995, 14, 385-397.	3.8	514
101	DARPP-32 (dopamine and cAMP-regulated phosphoprotein, Mr32,000) is a membrane protein in the bovine parathyroid. <i>FEBS Letters</i> , 1995, 364, 67-74.	1.3	8
102	Distribution of Protein Phosphatase Inhibitor-1 in Brain and Peripheral Tissues of Various Species: Comparison with DARPP-32. <i>Journal of Neurochemistry</i> , 1992, 59, 1053-1061.	2.1	65
103	Dopamine- and adenosine-3',5'-monophosphate (cAMP)-regulated phosphoprotein of Mr 32,000 (DARPP-32) in the retina of cat, monkey and human. <i>Neuroscience Letters</i> , 1991, 131, 66-70.	1.0	8
104	Dopamine- and adenosine-3',5'-monophosphate (cAMP)-regulated phosphoprotein of 32 kDa (DARRP-32) in the adrenal gland: immunohistochemical localization. <i>Journal of the Autonomic Nervous System</i> , 1991, 36, 75-84.	1.9	7
105	Immunocytochemical localization of phosphatase inhibitor-1 in rat brain. <i>Journal of Comparative Neurology</i> , 1991, 310, 170-188.	0.9	46
106	Characterization in Mammalian Brain of a DARPP-32 Serine Kinase Identical to Casein Kinase II. <i>Journal of Neurochemistry</i> , 1990, 55, 1772-1783.	2.1	69
107	Role of protein phosphorylation in neuronal signal transduction 1. <i>FASEB Journal</i> , 1989, 3, 1583-1592.	0.2	183
108	Inhibitors of protein phosphatase-1. Inhibitor-1 of bovine adipose tissue and a dopamine- and cAMP-regulated phosphoprotein of bovine brain are identical. <i>FEBS Journal</i> , 1989, 180, 143-148.	0.2	17

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109	DARPP-32 and Phosphatase Inhibitor-1, Two Structurally Related Inhibitors of Protein Phosphatase-1, Are Both Present in Striatonigral Neurons. <i>Journal of Neurochemistry</i> , 1988, 50, 257-262.	2.1	48
110	Dopaminergic regulation of protein phosphorylation in the striatum: DARPP-32. <i>Trends in Neurosciences</i> , 1987, 10, 377-383.	4.2	94
111	The hypothalamic arcuate nucleus-median eminence complex: Immunohistochemistry of transmitters, peptides and DARPP-32 with special reference to coexistence in dopamine neurons. <i>Brain Research Reviews</i> , 1986, 11, 97-155.	9.1	218
112	Chapter 13 DARPP-32, a dopamine-regulated phosphoprotein. <i>Progress in Brain Research</i> , 1986, 69, 149-159.	0.9	20
113	Protein Kinases in the Brain. <i>Annual Review of Biochemistry</i> , 1985, 54, 931-976.	5.0	473
114	DARPP-32, a dopamine-regulated neuronal phosphoprotein, is a potent inhibitor of protein phosphatase-1. <i>Nature</i> , 1984, 310, 503-505.	13.7	576
115	A Common Human Brain-Derived Neurotrophic Factor Polymorphism Leads to Prolonged Depression of Excitatory Synaptic Transmission by Isoflurane in Hippocampal Cultures. <i>Frontiers in Molecular Neuroscience</i> , 0, 15, .	1.4	0