Peter Anthony McNaughton

List of Publications by Year in Descending Order

93 papers	8,580 citations	51 h-index	92 g-index
99 ext. papers	9,266 ext. citations	10.4 avg, IF	6.03 L-index

#	Paper	IF	Citations
93	Role of hyperpolarization-activated cyclic nucleotide-gated ion channels in neuropathic pain: a proof-of-concept study of ivabradine in patients with chronic peripheral neuropathic pain. *Pain Reports*, **2021**, 6, e967	3.5	1
92	TRPM2 ion channels steer neutrophils towards a source of hydrogen peroxide. *Scientific Reports*, **2021**, 11, 9339	4.9	2
91	Oligodendrocyte HCN2 Channels Regulate Myelin Sheath Length. *Journal of Neuroscience*, **2021**, 41, 7954-7964	6.7	10
90	The Role of Cold-Sensitive Ion Channels in Peripheral Thermosensation. *Frontiers in Cellular Neuroscience*, **2020**, 14, 262	6.1	6
89	Heat detection by the TRPM2 ion channel. *Nature*, **2020**, 584, E5-E12	50.4	9
88	HCN3 ion channels: roles in sensory neuronal excitability and pain. *Journal of Physiology*, **2019**, 597, 4661-4675	3.9	13
87	A randomised, double-blind, placebo-controlled crossover trial of the influence of the HCN channel blocker ivabradine in a healthy volunteer pain model: an enriched population trial. *Pain*, **2019**, 160, 2554-2565	8	11
86	TRPM2 and warmth sensation. *Pflugers Archiv European Journal of Physiology*, **2018**, 470, 787-798	4.6	20
85	Hyperpolarization-activated cyclic nucleotide-gated 2 (HCN2) ion channels drive pain in mouse models of diabetic neuropathy. *Science Translational Medicine*, **2017**, 9, eaam6072	17.5	54
84	Sensitization of TRPA1 by Protein Kinase A. *PLoS ONE*, **2017**, 12, e0170097	3.7	27
83	The TRPM2 ion channel is required for sensitivity to warmth. *Nature*, **2016**, 536, 460-3	50.4	135
82	HCN2 ion channels: basic science opens up possibilities for therapeutic intervention in neuropathic pain. *Biochemical Journal*, **2016**, 473, 2717-36	3.8	30
81	Agonist-induced sensitisation of the irritant receptor ion channel TRPA1. *Journal of Physiology*, **2016**, 594, 6643-6660	3.9	26
80	TRP Channels in the Sensation of Heat **2015**, 165-183		
79	Direct evidence for functional TRPV1/TRPA1 heteromers. *Pflugers Archiv European Journal of Physiology*, **2014**, 466, 2229-41	4.6	81
78	Inflammatory and neuropathic pain are rapidly suppressed by peripheral block of hyperpolarisation-activated cyclic nucleotide-gated ion channels. *Pain*, **2014**, 155, 1708-1719	8	72
77	How anchoring proteins shape pain. *Pharmacology & Therapeutics*, **2014**, 143, 316-22	13.9	5

76	Mapping the binding site of TRPV1 on AKAP79: implications for inflammatory hyperalgesia. *Journal of Neuroscience*, **2013**, 33, 9184-9193	6.6	33
75	Disrupting sensitization of transient receptor potential vanilloid subtype 1 inhibits inflammatory hyperalgesia. *Journal of Neuroscience*, **2013**, 33, 7407-14	6.6	58
74	HCN2 ion channels: an emerging role as the pacemakers of pain. *Trends in Pharmacological Sciences*, **2012**, 33, 456-63	13.2	81
73	Direct inhibition of the cold-activated TRPM8 ion channel by G□. *Nature Cell Biology*, **2012**, 14, 851-8	23.4	114
72	Magnetic characterization of isolated candidate vertebrate magnetoreceptor cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 12022-7	11.5	81
71	The thermo-TRP ion channel family: properties and therapeutic implications. *British Journal of Pharmacology*, **2012**, 165, 787-801	8.6	186
70	Neuroscience cuts will hurt key areas. *Nature*, **2011**, 471, 36-7	50.4	
69	HCN2 ion channels play a central role in inflammatory and neuropathic pain. *Science*, **2011**, 333, 1462-6	33.3	231
68	Modulation of single-channel properties of TRPV1 by phosphorylation. *Journal of Physiology*, **2010**, 588, 3743-56	3.9	69
67	Avian magnetite-based magnetoreception: a physiologist□s perspective. *Journal of the Royal Society Interface*, **2010**, 7 Suppl 2, S193-205	4.1	40
66	Current perspectives on the modulation of thermo-TRP channels: new advances and therapeutic implications. *Expert Review of Clinical Pharmacology*, **2010**, 3, 687-704	3.8	10
65	Protease activated receptors 1 and 4 sensitize TRPV1 in nociceptive neurones. *Molecular Pain*, **2010**, 6, 61	3.4	56
64	Sensitisation of Nociceptors □What are Ion Channels Doing?. *Open Pain Journal*, **2010**, 3, 82-96	0.3	12
63	Activation of the TRPV4 ion channel is enhanced by phosphorylation. *Journal of Biological Chemistry*, **2009**, 284, 27884-27891	5.4	131
62	Regulation of firing frequency in nociceptive neurons by pro-inflammatory mediators. *Experimental Brain Research*, **2009**, 196, 45-52	2.3	25
61	Role of the hyperpolarization-activated current Ih in somatosensory neurons. *Journal of Physiology*, **2008**, 586, 5911-29	3.9	112
60	Proinflammatory mediators modulate the heat-activated ion channel TRPV1 via the scaffolding protein AKAP79/150. *Neuron*, **2008**, 59, 450-61	13.9	197
59	Functional lipidomics. Calcium-independent activation of endocannabinoid/endovanilloid lipid signalling in sensory neurons by protein kinases C and A and thrombin. *Neuropharmacology*, **2008**, 55, 1274-9	5.5	40

58	Arachidonic acid potentiates acid-sensing ion channels in rat sensory neurons by a direct action. *Neuroscience*, **2007**, 145, 686-98	3.9	103
57	Sensitisation of TRPV1 in rat sensory neurones by activation of SNSRs. *Neuroscience Letters*, **2007**, 422, 1-6	3.3	11
56	Proton binding sites involved in the activation of acid-sensing ion channel ASIC2a. *Neuroscience Letters*, **2007**, 426, 12-7	3.3	36
55	Modulation of acid-sensing ion channel activity by nitric oxide. *Journal of Neuroscience*, **2007**, 27, 13251-60	6.6	109
54	Inflammatory pain: the cellular basis of heat hyperalgesia. *Current Neuropharmacology*, **2006**, 4, 197-206	7.6	140
53	Why pain gets worse: the mechanism of heat hyperalgesia. *Journal of General Physiology*, **2006**, 128, 491-3	3.4	26
52	Sensitization of transient receptor potential vanilloid 1 by the prokineticin receptor agonist Bv8. *Journal of Neuroscience*, **2006**, 26, 5109-16	6.6	85
51	Modulation of temperature-sensitive TRP channels. *Seminars in Cell and Developmental Biology*, **2006**, 17, 638-45	7.5	98
50	Anandamide acts as an intracellular messenger amplifying Ca2+ influx via TRPV1 channels. *EMBO Journal*, **2005**, 24, 3026-37	13	186
49	NGF rapidly increases membrane expression of TRPV1 heat-gated ion channels. *EMBO Journal*, **2005**, 24, 4211-23	13	544
48	Pain Transduction: Gating and Modulation of Ion Channels **2005**, 251-270		
47	Functional bradykinin B1 receptors are expressed in nociceptive neurones and are upregulated by the neurotrophin GDNF. *Journal of Physiology*, **2004**, 560, 391-401	3.9	75
46	Characterization of the primary spinal afferent innervation of the mouse colon using retrograde labelling. *Neurogastroenterology and Motility*, **2004**, 16, 113-24	4	153
45	Acid-induced pain and its modulation in humans. *Journal of Neuroscience*, **2004**, 24, 10974-9	6.6	199
44	Signalling pathways involved in the sensitisation of mouse nociceptive neurones by nerve growth factor. *Journal of Physiology*, **2003**, 551, 433-46	3.9	249
43	The Cellular and Molecular Basis of the Detection of Pain. *Cell and Molecular Response To Stress*, **2002**, 105-119		
42	Upregulation of bradykinin B2 receptor expression by neurotrophic factors and nerve injury in mouse sensory neurons. *Molecular and Cellular Neurosciences*, **2002**, 19, 186-200	4.8	57
41	Protein kinase C activation potentiates gating of the vanilloid receptor VR1 by capsaicin, protons, heat and anandamide. *Journal of Physiology*, **2001**, 534, 813-25	3.9	408

40	Glial cell responses to lipids bound to albumin in serum and plasma. *Progress in Brain Research*, **2001**, 132, 367-74	2.9	13
39	Multidrug transporters in prokaryotic and eukaryotic cells: physiological functions and transport mechanisms. *Molecular Membrane Biology*, **2001**, 18, 97-103	3.4	45
38	Modulation of the synaptic Ca2+ current in salamander photoreceptors by polyunsaturated fatty acids and retinoids. *Journal of Physiology*, **2000**, 529 Pt 2, 333-44	3.9	30
37	Ion channels gated by heat. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 7658-63	11.5	133
36	Manipulation of synaptic sign and strength with divalent cations in the vertebrate retina: pushing the limits of tonic, chemical neurotransmission. *European Journal of Neuroscience*, **1999**, 11, 4134-8	3.5	12
35	Lysophospholipids trigger calcium signals but not DNA synthesis in cortical astrocytes **1999**, 28, 272-276		13
34	Specific involvement of PKC-epsilon in sensitization of the neuronal response to painful heat. *Neuron*, **1999**, 23, 617-24	13.9	348
33	Albumin elicits calcium signals from astrocytes in brain slices from neonatal rat cortex. *Journal of Physiology*, **1998**, 509 (Pt 3), 711-6	3.9	19
32	Peripheral pain mechanisms. *Current Opinion in Neurobiology*, **1997**, 7, 493-9	7.6	116
31	Enrichment of the fraction of nociceptive neurones in cultures of primary sensory neurones. *Journal of Neuroscience Methods*, **1997**, 71, 191-8	3	26
30	Plasma albumin induces calcium waves in rat cortical astrocytes. *Glia*, **1997**, 19, 343-51	9	31
29	Protein kinase C-mediated phosphorylation does not regulate drug transport by the human multidrug resistance P-glycoprotein. *Journal of Biological Chemistry*, **1996**, 271, 13668-74	5.4	94
28	A novel heat-activated current in nociceptive neurons and its sensitization by bradykinin. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 15435-9	11.5	355
27	Rods, cones and calcium. *Cell Calcium*, **1995**, 18, 275-84	4	8
26	Plasma albumin is a potent trigger of calcium signals and DNA synthesis in astrocytes. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 1426-30	11.5	110
25	Temperature dependence of the light response in rat rods. *Journal of Physiology*, **1993**, 462, 465-81	3.9	21
24	Calcium homeostasis in the outer segments of retinal rods from the tiger salamander. *Journal of Physiology*, **1992**, 455, 111-42	3.9	161
23	K+ and Cl- currents in enterocytes isolated from guinea-pig small intestinal villi. *Journal of Physiology*, **1991**, 434, 351-67	3.9	26

22	Response properties of cones from the retina of the tiger salamander. *Journal of Physiology*, **1991**, 433, 561-87	3.9	166
21	Net charge transport during sodium-dependent calcium extrusion in isolated salamander rod outer segments. *Journal of General Physiology*, **1991**, 98, 479-95	3.4	18
20	Calcium regulation in neurons: transport processes. *Current Opinion in Neurobiology*, **1991**, 1, 98-104	7.6	7
19	Electrogenic properties of the Na:Ca exchange. *Journal of Membrane Biology*, **1990**, 113, 177-91	2.3	164
18	The effects of quinidine on sodium-dependent calcium efflux in isolated rod photoreceptors of the salamander retina. *Pflugers Archiv European Journal of Physiology*, **1990**, 417, 168-73	4.6	
17	Possible involvement of GTP-binding proteins in the deactivation of an inwardly rectifying K+ current in enterocytes isolated from guinea-pig small intestine. *Pflugers Archiv European Journal of Physiology*, **1990**, 417, 240-2	4.6	16
16	Light response of vertebrate photoreceptors. *Physiological Reviews*, **1990**, 70, 847-83	47.9	198
15	Extrusion of calcium from rod outer segments is driven by both sodium and potassium gradients. *Nature*, **1989**, 337, 740-3	50.4	335
14	Confocal microscopy: applications in neurobiology. *Trends in Neurosciences*, **1988**, 11, 346-51	13.3	100
13	Ion transport by the Na-Ca exchange in isolated rod outer segments. *Proceedings of the National Academy of Sciences of the United States of America*, **1988**, 85, 4548-52	11.5	89
12	The effects of phosphodiesterase inhibitors and lanthanum ions on the light-sensitive current of toad retinal rods. *Journal of Physiology*, **1986**, 370, 91-109	3.9	43
11	Measurement of the intracellular free calcium concentration in salamander rods. *Nature*, **1986**, 322, 261-3	50.4	173
10	The ionic selectivity and calcium dependence of the light-sensitive pathway in toad rods. *Journal of Physiology*, **1985**, 358, 447-68	3.9	227
9	Effect of ions on retinal rods from Bufo marinus. *Journal of Physiology*, **1984**, 350, 649-80	3.9	99
8	Spatial spread of activation and background desensitization in toad rod outer segments. *Journal of Physiology*, **1981**, 319, 463-96	3.9	254
7	Effect of ions on the light-sensitive current in retinal rods. *Nature*, **1981**, 292, 502-5	50.4	162
6	Temporal and spatial characteristics of the voltage response of rods in the retina of the snapping turtle. *Journal of Physiology*, **1980**, 300, 213-50	3.9	114
5	Spread of activation and desensitisation in rod outer segments. *Nature*, **1980**, 283, 85-7	50.4	22

4	The effects of calcium on outward membrane currents in the cardiac Purkinje fibre. *Journal of Physiology*, **1979**, 289, 347-73	3.9	61
3	A surprising property of electrical spread in the network of rods in the turtle‡s retina. *Nature*, **1978**, 274, 562-5	50.4	90
2	The influence of extracellular calcium binding on the calcium efflux from squid axons. *Journal of Physiology*, **1978**, 276, 127-50	3.9	65
1	Kinetics and energetics of calcium efflux from intact squid giant axons. *Journal of Physiology*, **1976**, 259, 103-44	3.9	169