

# William J Brackenburg

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

4,197  
citations

159585

30  
h-index

223800

46  
g-index

59  
all docs

59  
docs citations

59  
times ranked

3804  
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional analysis of AtHKT1 in Arabidopsis shows that Na <sup>+</sup> recirculation by the phloem is crucial for salt tolerance. <i>EMBO Journal</i> , 2003, 22, 2004-2014.	7.8	512
2	Membrane potential and cancer progression. <i>Frontiers in Physiology</i> , 2013, 4, 185.	2.8	452
3	Voltage-Gated Sodium Channel Expression and Potentiation of Human Breast Cancer Metastasis. <i>Clinical Cancer Research</i> , 2005, 11, 5381-5389.	7.0	410
4	Na <sup>+</sup> Channel $\beta$ Subunits: Overachievers of the Ion Channel Family. <i>Frontiers in Pharmacology</i> , 2011, 2, 53.	3.5	270
5	Therapeutic potential for phenytoin: targeting Nav1.5 sodium channels to reduce migration and invasion in metastatic breast cancer. <i>Breast Cancer Research and Treatment</i> , 2012, 134, 603-615.	2.5	168
6	Voltage-gated sodium channels and metastatic disease. <i>Channels</i> , 2012, 6, 352-361.	2.8	161
7	The neonatal splice variant of Nav1.5 potentiates in vitro invasive behaviour of MDA-MB-231 human breast cancer cells. <i>Breast Cancer Research and Treatment</i> , 2007, 101, 149-160.	2.5	157
8	The sodium channel-blocking antiepileptic drug phenytoin inhibits breast tumour growth and metastasis. <i>Molecular Cancer</i> , 2015, 14, 13.	19.2	127
9	Regulation of voltage-gated sodium channel expression in cancer: hormones, growth factors and auto-regulation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130105.	4.0	123
10	Functional reciprocity between Na <sup>+</sup> channel $\beta$ 1.6 and $\beta$ 1 subunits in the coordinated regulation of excitability and neurite outgrowth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2283-2288.	7.1	121
11	A novel adhesion molecule in human breast cancer cells: Voltage-gated Na <sup>+</sup> channel $\beta$ 1 subunit. <i>International Journal of Biochemistry and Cell Biology</i> , 2009, 41, 1216-1227.	2.8	105
12	An Emerging Role for Voltage-Gated Na <sup>+</sup> Channels in Cellular Migration: Regulation of Central Nervous System Development and Potentiation of Invasive Cancers. <i>Neuroscientist</i> , 2008, 14, 571-583.	3.5	103
13	Activity-dependent regulation of voltage-gated Na <sup>+</sup> channel expression in Mat-LyLu rat prostate cancer cell line. <i>Journal of Physiology</i> , 2006, 573, 343-356.	2.9	101
14	Voltage-Gated Na <sup>+</sup> Channel $\beta$ 1B: A Secreted Cell Adhesion Molecule Involved in Human Epilepsy. <i>Journal of Neuroscience</i> , 2011, 31, 14577-14591.	3.6	97
15	Voltage-Gated Na <sup>+</sup> Channel $\beta$ 1 Subunit-Mediated Neurite Outgrowth Requires Fyn Kinase and Contributes to Postnatal CNS Development <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2008, 28, 3246-3256.	3.6	95
16	Nav1.5 regulates breast tumor growth and metastatic dissemination <i>in vivo</i> . <i>Oncotarget</i> , 2015, 6, 32914-32929.	1.8	93
17	Voltage-gated Na <sup>+</sup> channels: Potential for $\beta$ subunits as therapeutic targets. <i>Expert Opinion on Therapeutic Targets</i> , 2008, 12, 1191-1203.	3.4	86
18	In Vivo Evidence for Voltage-Gated Sodium Channel Expression in Carcinomas and Potentiation of Metastasis. <i>Cancers</i> , 2019, 11, 1675.	3.7	86

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19	High-throughput, low-loss, low-cost, and label-free cell separation using electrophysiology-activated cell enrichment. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4591-4596.	7.1	84
20	The sodium channel $\beta$ 1 subunit mediates outgrowth of neurite-like processes on breast cancer cells and promotes tumour growth and metastasis. International Journal of Cancer, 2014, 135, 2338-2351.	5.1	76
21	Abnormal neuronal patterning occurs during early postnatal brain development of <i>Scn1b</i> -null mice and precedes hyperexcitability. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1089-1094.	7.1	69
22	Sodium homeostasis in the tumour microenvironment. Biochimica Et Biophysica Acta: Reviews on Cancer, 2019, 1872, 188304.	7.4	69
23	Nerve growth factor enhances voltage-gated Na <sup>+</sup> channel activity and Transwell migration in Mat-LyLu rat prostate cancer cell line. Journal of Cellular Physiology, 2007, 210, 602-608.	4.1	51
24	Dual roles of voltage-gated sodium channels in development and cancer. International Journal of Developmental Biology, 2015, 59, 357-366.	0.6	51
25	Epidermal growth factor upregulates motility of Mat-LyLu rat prostate cancer cells partially via voltage-gated Na <sup>+</sup> channel activity. Journal of Cellular Physiology, 2008, 215, 77-81.	4.1	50
26	Voltage-dependent activation of Rac1 by Na <sup>v</sup> 1.5 channels promotes cell migration. Journal of Cellular Physiology, 2020, 235, 3950-3972.	4.1	50
27	Therapeutic Value of Voltage-Gated Sodium Channel Inhibitors in Breast, Colorectal, and Prostate Cancer: A Systematic Review. Frontiers in Pharmacology, 2015, 6, 273.	3.5	49
28	Na <sup>+</sup> Channel <i>Scn1b</i> Gene Regulates Dorsal Root Ganglion Nociceptor Excitability in Vivo. Journal of Biological Chemistry, 2011, 286, 22913-22923.	3.4	39
29	Blockade of voltage-gated sodium channels inhibits invasion of endocrine-resistant breast cancer cells. International Journal of Oncology, 2016, 48, 73-83.	3.3	37
30	Volatile compounds in human breath: critical review and meta-analysis. Journal of Breath Research, 2022, 16, 024001.	3.0	37
31	Expression of Na <sup>+</sup> -dependent citrate transport in a strongly metastatic human prostate cancer PC-3M cell line: regulation by voltage-gated Na <sup>+</sup> channel activity. Journal of Physiology, 2005, 563, 393-408.	2.9	32
32	Sodium channel-inhibiting drugs and survival of breast, colon and prostate cancer: a population-based study. Scientific Reports, 2015, 5, 16758.	3.3	30
33	Emerging roles for multifunctional ion channel auxiliary subunits in cancer. Cell Calcium, 2019, 80, 125-140.	2.4	29
34	Targeting Ion Channels for Cancer Treatment: Current Progress and Future Challenges. Reviews of Physiology, Biochemistry and Pharmacology, 2020, , 1.	1.6	24
35	Pharmacological and nutritional targeting of voltage-gated sodium channels in the treatment of cancers. IScience, 2021, 24, 102270.	4.1	23
36	Metastatic breast cancer cells induce altered microglial morphology and electrical excitability in vivo. Journal of Neuroinflammation, 2020, 17, 87.	7.2	22

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37	Exposure to sodium channel-inhibiting drugs and cancer survival: protocol for a cohort study using the QResearch primary care database: Table A1. <i>BMJ Open</i> , 2014, 4, e006604.	1.9	19
38	Sodium channel-inhibiting drugs and cancer survival: protocol for a cohort study using the CPRD primary care database. <i>BMJ Open</i> , 2016, 6, e011661.	1.9	13
39	Sodium accumulation in breast cancer predicts malignancy and treatment response. <i>British Journal of Cancer</i> , 2022, 127, 337-349.	6.4	13
40	Inhibitory Effect of Eslicarbazepine Acetate and S-Licarbazepine on Nav1.5 Channels. <i>Frontiers in Pharmacology</i> , 2020, 11, 555047.	3.5	10
41	IK channel activation increases tumor growth and induces differential behavioral responses in two breast epithelial cell lines. <i>Oncotarget</i> , 2017, 8, 42382-42397.	1.8	9
42	Inhibition of the Na <sup>+</sup> /K <sup>+</sup> -ATPase by cardiac glycosides suppresses expression of the IDO1 immune checkpoint in cancer cells by reducing STAT1 activation. <i>Journal of Biological Chemistry</i> , 2022, 298, 101707.	3.4	8
43	Inhibition of N1-Src kinase by a specific SH3 peptide ligand reveals a role for N1-Src in neurite elongation by L1-CAM. <i>Scientific Reports</i> , 2017, 7, 43106.	3.3	7
44	Harnessing the Membrane Potential to Combat Cancer Progression. <i>Bioelectricity</i> , 2022, 4, 75-80.	1.1	7
45	Ion Channels in Cancer. , 2016, , 131-163.		6
46	Subcellular dynamics and functional activity of the cleaved intracellular domain of the Na <sup>+</sup> channel $\beta$ 1 subunit. <i>Journal of Biological Chemistry</i> , 2022, 298, 102174.	3.4	5
47	Widespread association of ER $\alpha$ with RMRP and tRNA genes in MCF-7 cells and breast cancers. <i>Gene</i> , 2022, 821, 146280.	2.2	4
48	Sampling and Analysis of Low-Molecular-Weight Volatile Metabolites in Cellular Headspace and Mouse Breath. <i>Metabolites</i> , 2022, 12, 599.	2.9	3
49	Abstract P6-03-10: Targeting voltage-gated sodium channels with the antiepileptic drug phenytoin inhibits breast tumor growth and metastasis. , 2015, , .		1
50	Relationship between lecture capture usage and examination performance of undergraduate bioscience students. <i>Journal of Biological Education</i> , 2019, , 1-11.	1.5	0
51	âœPatch Clamp Electrophysiology Methods and Protocols,âœEditors Mark Dallas and Damian Bell. <i>Bioelectricity</i> , 2021, 3, 154-155.	1.1	0
52	Abstract 1972: The sodium channel auxiliary subunit SCN1B promotes breast tumor growth and metastasis. , 2014, , .		0