

# Ebbe Boedtkjer

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4827214/publications.pdf>

Version: 2024-02-01

64  
papers

2,470  
citations

236833

25  
h-index

206029

48  
g-index

67  
all docs

67  
docs citations

67  
times ranked

2205  
citing authors

#	ARTICLE	IF	CITATIONS
1	The solution to bicarbonate. American Journal of Physiology - Heart and Circulatory Physiology, 2022, 322, H685-H686.	1.5	8
2	Amplified Ca <sup>2+</sup> dynamics and accelerated cell proliferation in breast cancer tissue during purinergic stimulation. International Journal of Cancer, 2022, 151, 1150-1165.	2.3	5
3	Loss of RPTP <sup>3</sup> primes breast tissue for acid extrusion, promotes malignant transformation and results in early tumour recurrence and shortened survival. British Journal of Cancer, 2022, 127, 1226-1238.	2.9	4
4	Sodium bicarbonate cotransporter NBCn1/Slc4a7 affects locomotor activity and hearing in mice. Behavioural Brain Research, 2021, 401, 113065.	1.2	7
5	Vaginal, Cervical and Uterine pH in Women with Normal and Abnormal Vaginal Microbiota. Pathogens, 2021, 10, 90.	1.2	16
6	NBCn1 Increases NH <sub>4</sub> <sup>+</sup> Reabsorption Across Thick Ascending Limbs, the Capacity for Urinary NH <sub>4</sub> <sup>+</sup> Excretion, and Early Recovery from Metabolic Acidosis. Journal of the American Society of Nephrology: JASN, 2021, 32, 852-865.	3.0	7
7	Acid-base transporters and pH dynamics in human breast carcinomas predict proliferative activity, metastasis, and survival. ELife, 2021, 10, .	2.8	21
8	Ion Channels, Transporters, and Sensors Interact with the Acidic Tumor Microenvironment to Modify Cancer Progression. Reviews of Physiology, Biochemistry and Pharmacology, 2021, , 39-84.	0.9	8
9	The Acidic Tumor Microenvironment as a Driver of Cancer. Annual Review of Physiology, 2020, 82, 103-126.	5.6	551
10	Increased Alcohol Consumption in Mice Lacking Sodium Bicarbonate Transporter NBCn1. Scientific Reports, 2020, 10, 11017.	1.6	6
11	Targeting the Acidic Tumor Microenvironment: Unexpected Pro-Neoplastic Effects of Oral NaHCO <sub>3</sub> Therapy in Murine Breast Tissue. Cancers, 2020, 12, 891.	1.7	19
12	PTPRG is an ischemia risk locus essential for HCO <sub>3</sub> <sup>-</sup> -dependent regulation of endothelial function and tissue perfusion. ELife, 2020, 9, .	2.8	15
13	The mechanisms of net acid extrusion and intracellular pH control in human breast cancer tissue associate with histology, proliferative activity, and expression of growth factor receptors. Breast, 2019, 44, S30.	0.9	0
14	Na <sup>+</sup> ,HCO <sub>3</sub> <sup>-</sup> cotransporter NBCn1 accelerates breast carcinogenesis. Cancer and Metastasis Reviews, 2019, 38, 165-178.	2.7	30
15	Acidosis inhibits rhythmic contractions of human thoracic ducts. Physiological Reports, 2019, 7, e14074.	0.7	5
16	Upregulated Na <sup>+</sup> /H <sup>+</sup> -Exchange Protects Human Colon Cancer Tissue against Intracellular Acidification. BioMed Research International, 2019, 2019, 1-5.	0.9	10
17	Enhanced nitric oxide signaling amplifies vasorelaxation of human colon cancer feed arteries. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H245-H254.	1.5	13
18	The net acid extruders NHE1, NBCn1 and MCT4 promote mammary tumor growth through distinct but overlapping mechanisms. International Journal of Cancer, 2018, 142, 2529-2542.	2.3	63

#	ARTICLE	IF	CITATIONS
19	Carbonic anhydrase inhibitors modify intracellular pH transients and contractions of rat middle cerebral arteries during $\text{CO}_2/\text{HCO}_3^-$ fluctuations. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 492-505.	2.4	22
20	Acid-base regulation and sensing: Accelerators and brakes in metabolic regulation of cerebrovascular tone. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 588-602.	2.4	30
21	Mechanism of net acid extrusion from human breast cancer tissue depends on histopathology and the expression of sex hormone and growth factor receptors. <i>European Journal of Cancer</i> , 2018, 92, S126-S127.	1.3	0
22	Increased Contractile Function of Human Saphenous Vein Grafts Harvested by "No-Touch" Technique. <i>Frontiers in Physiology</i> , 2018, 8, 1135.	1.3	8
23	A novel method to isolate retinal and brain microvessels from individual rats: Microscopic and molecular biological characterization and application in hyperglycemic animals. <i>Vascular Pharmacology</i> , 2018, 110, 24-30.	1.0	7
24	Murine breast cancer feed arteries are thin-walled with reduced $\beta_1$ -adrenoceptor expression and attenuated sympathetic vasoconstriction. <i>Breast Cancer Research</i> , 2018, 20, 20.	2.2	10
25	$\text{Na}^+/\text{HCO}_3^-$ -cotransporter NBCn1 (Slc4a7) accelerates ErbB2-induced breast cancer development and tumor growth in mice. <i>Oncogene</i> , 2018, 37, 5569-5584.	2.6	38
26	Crosstalk between cardiomyocyte-rich perivascular tissue and coronary arteries is reduced in the Zucker Diabetic Fatty rat model of type 2 diabetes mellitus. <i>Acta Physiologica</i> , 2017, 219, 227-238.	1.8	14
27	Increased NBCn1 expression, $\text{Na}^+/\text{HCO}_3^-$ co-transport and intracellular pH in human vascular smooth muscle cells with a risk allele for hypertension. <i>Human Molecular Genetics</i> , 2017, 26, ddx015.	1.4	21
28	Extracellular acidosis and very low $[\text{Na}^+]_i$ inhibit NBCn1- and NHE1-mediated net acid extrusion from mouse vascular smooth muscle cells. <i>Acta Physiologica</i> , 2017, 221, 129-141.	1.8	18
29	Negative News: $\text{Cl}^-$ and $\text{HCO}_3^-$ in the Vascular Wall. <i>Physiology</i> , 2016, 31, 370-383.	1.6	16
30	New roles of factors from perivascular tissue in regulation of vascular tone. <i>Acta Physiologica</i> , 2016, 216, 159-162.	1.8	7
31	LBOS 02-04 BLOOD PRESSURE-ASSOCIATED POLYMORPHISMS IN SLC4A7 (SODIUM/BICARBONATE) of Hypertension, 2016, 34, e549-e550.	1.0784314	1
32	$\text{Na}^+/\text{HCO}_3^-$ -cotransporter NBCn1 increases pH gradients, filopodia, and migration of smooth muscle cells and promotes arterial remodelling. <i>Cardiovascular Research</i> , 2016, 111, 227-239.	1.8	41
33	Prior renovascular hypertension does not predispose to atherosclerosis in mice. <i>Atherosclerosis</i> , 2016, 249, 157-163.	0.4	1
34	Extracellular $\text{Ca}^{2+}$ is sensed by mouse cerebral arteries: Regulation of tone by receptor protein tyrosine phosphatase $\beta_3$ . <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 965-980.	2.4	40
35	Disrupting $\text{Na}^+/\text{HCO}_3^-$ -cotransporter NBCn1 (Slc4a7) delays murine breast cancer development. <i>Oncogene</i> , 2016, 35, 2112-2122.	2.6	73
36	P069 $\text{Na}^+/\text{HCO}_3^-$ cotransport mediates upregulated acid extrusion during human breast carcinogenesis. <i>Breast</i> , 2015, 24, S50-S51.	0.9	0

#	ARTICLE	IF	CITATIONS
37	Perivascular tissue inhibits rhoâ€kinaseâ€dependent smooth muscle Ca <sup>2+</sup> sensitivity and endotheliumâ€dependent H <sub>2</sub> S signalling in rat coronary arteries. <i>Journal of Physiology</i> , 2015, 593, 4747-4764.	1.3	14
38	Synthesis of N-cyano-substituted sulfilimine and sulfoximine derivatives of S0859 and their biological evaluation as sodium bicarbonate co-transport inhibitors. <i>MedChemComm</i> , 2015, 6, 2163-2169.	3.5	18
39	Na <sup>+</sup> ,HCO <sub>3</sub> <sup>-</sup> -cotransport is functionally upregulated during human breast carcinogenesis and required for the inverted pH gradient across the plasma membrane. <i>Pflugers Archiv European Journal of Physiology</i> , 2015, 467, 367-377.	1.3	52
40	Intracellular Acidification Alters Myogenic Responsiveness and Vasomotion of Mouse Middle Cerebral Arteries. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 161-168.	2.4	26
41	Regulation and roles of bicarbonate transporters in cancer. <i>Frontiers in Physiology</i> , 2014, 5, 130.	1.3	113
42	The bestrophin- and TMEM16A-associated Ca <sup>2+</sup> -activated Cl <sup>-</sup> channels in vascular smooth muscles. <i>Channels</i> , 2014, 8, 361-369.	1.5	23
43	TMEM16A knockdown abrogates two different Ca <sup>2+</sup> -activated Cl <sup>-</sup> currents and contractility of smooth muscle in rat mesenteric small arteries. <i>Pflugers Archiv European Journal of Physiology</i> , 2014, 466, 1391-1409.	1.3	59
44	Cationâ€Coupled Bicarbonate Transporters. , 2014, 4, 1605-1637.		48
45	Endothelial alkalinisation inhibits gap junction communication and endotheliumâ€derived hyperpolarisations in mouse mesenteric arteries. <i>Journal of Physiology</i> , 2013, 591, 1447-1461.	1.3	28
46	Acidâ€base transporters modulate cell migration, growth and proliferation: Implications for structure development and remodeling of resistance arteries?. <i>Trends in Cardiovascular Medicine</i> , 2013, 23, 59-65.	2.3	24
47	Contribution of Na <sup>+</sup> ,HCO <sub>3</sub> <sup>-</sup> cotransport to cellular pH control in human breast cancer: A role for the breast cancer susceptibility locus NBCn1 (SLC4A7). <i>International Journal of Cancer</i> , 2013, 132, 1288-1299.	2.3	104
48	Disturbed acid-base transport: an emerging cause of hypertension. <i>Frontiers in Physiology</i> , 2013, 4, 388.	1.3	20
49	Splice Cassette II of Na <sup>+</sup> ,HCO <sub>3</sub> <sup>-</sup> Cotransporter NBCn1 (slc4a7) Interacts with Calcineurin A. <i>Journal of Biological Chemistry</i> , 2013, 288, 8146-8155.	1.6	32
50	Abstract P3-03-02: Na <sup>+</sup> ,HCO <sub>3</sub> <sup>-</sup> -cotransport is the major mechanism of cellular acid extrusion in human and murine breast cancer. , 2013, , .		0
51	Physiology, Pharmacology and Pathophysiology of the pH Regulatory Transport Proteins NHE1 and NBCn1: Similarities, Differences, and Implications for Cancer Therapy. <i>Current Pharmaceutical Design</i> , 2012, 18, 1345-1371.	0.9	123
52	Intracellular pH in the Resistance Vasculature: Regulation and Functional Implications. <i>Journal of Vascular Research</i> , 2012, 49, 479-496.	0.6	52
53	482 Acid-extruding Proteins as Potential Novel Targets in Human Breast Cancer. <i>European Journal of Cancer</i> , 2012, 48, S116.	1.3	0
54	Gramâ€Scale Solutionâ€Phase Synthesis of Selective Sodium Bicarbonate Coâ€transport Inhibitor S0859: inâ€vitro Efficacy Studies in Breast Cancer Cells. <i>ChemMedChem</i> , 2012, 7, 1808-1814.	1.6	27

#	ARTICLE	IF	CITATIONS
55	NHE1 knockout reduces blood pressure and arterial media/lumen ratio with no effect on resting $pH_i$ in the vascular wall. <i>Journal of Physiology</i> , 2012, 590, 1895-1906.	1.3	47
56	Disruption of $Na^+HCO_3^-$ Cotransporter NBCn1 (slc4a7) Inhibits NO-Mediated Vasorelaxation, Smooth Muscle $Ca^{2+}$ Sensitivity, and Hypertension Development in Mice. <i>Circulation</i> , 2011, 124, 1819-1829.	1.6	124
57	Opening of Small and Intermediate Calcium-Activated Potassium Channels Induces Relaxation Mainly Mediated by Nitric-Oxide Release in Large Arteries and Endothelium-Derived Hyperpolarizing Factor in Small Arteries from Rat. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 339, 842-850.	1.3	58
58	NBCn1 and NHE1 expression and activity in $\beta$ NERb2 receptor-expressing MCF-7 breast cancer cells: Contributions to $pH_i$ regulation and chemotherapy resistance. <i>Experimental Cell Research</i> , 2010, 316, 2538-2553.	1.2	111
59	Insulin inhibits $Na^+H^+$ exchange in vascular smooth muscle and endothelial cells in situ: involvement of $H_2O_2$ and tyrosine phosphatase SHP-2. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H247-H255.	1.5	32
60	Vasomotion has chloride-dependency in rat mesenteric small arteries. <i>Pflugers Archiv European Journal of Physiology</i> , 2008, 457, 389-404.	1.3	44
61	Antibody-independent localization of the electroneutral $Na^+HCO_3^-$ cotransporter NBCn1 (slc4a7) in mice. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 294, C591-C603.	2.1	74
62	Localization of NBCn1 (slc4a7) by a non-immunological method. <i>FASEB Journal</i> , 2007, 21, A1283.	0.2	1
63	Chloride substitution inhibits vasomotion in rat mesenteric resistance arteries. <i>FASEB Journal</i> , 2007, 21, A521.	0.2	0
64	NBCn1 (slc4a7) Mediates the $Na^+$ -Dependent Bicarbonate Transport Important for Regulation of Intracellular $pH$ in Mouse Vascular Smooth Muscle Cells. <i>Circulation Research</i> , 2006, 98, 515-523.	2.0	81