Ebbe Boedtkjer

List of Publications by Year
in descending order

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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 Acidic Tumor Microenvironment as a Driver of Cancer. Annual Review of Physiology, 2020, 82, 103-126.	5.6	551
2	Disruption of Na ⁺ ,HCO ₃ ^{â˜'} Cotransporter NBCn1 (slc4a7) Inhibits NO-Mediated Vasorelaxation, Smooth Muscle Ca ²⁺ Sensitivity, and Hypertension Development in Mice. Circulation, 2011, 124, 1819-1829.	1.6	124
3	Physiology, Pharmacology and Pathophysiology of the pH Regulatory Transport Proteins NHE1 and NBCn1: Similarities, Differences, and Implications for Cancer Therapy. Current Pharmaceutical Design, 2012, 18, 1345-1371.	0.9	123
4	Regulation and roles of bicarbonate transporters in cancer. Frontiers in Physiology, 2014, 5, 130.	1.3	113
5	NBCn1 and NHE1 expression and activity in Î"NErbB2 receptor-expressing MCF-7 breast cancer cells: Contributions to pHi regulation and chemotherapy resistance. Experimental Cell Research, 2010, 316, 2538-2553.	1.2	111
6	Contribution of Na⁺,HCO₃^{â˜'}â€cotransport to cellular pH control in human breast cancer: A role for the breast cancer susceptibility locus NBCn1 (SLC4A7). International Journal of Cancer, 2013, 132, 1288-1299.	2.3	104
7	NBCn1 (slc4a7) Mediates the Na + -Dependent Bicarbonate Transport Important for Regulation of Intracellular pH in Mouse Vascular Smooth Muscle Cells. Circulation Research, 2006, 98, 515-523.	2.0	81
8	Antibody-independent localization of the electroneutral Na⁺-HCO₃^{â˜'} cotransporter NBCn1 (slc4a7) in mice. American Journal of Physiology - Cell Physiology, 2008, 294, C591-C603.	2.1	74
9	Disrupting Na+,HCO3â€"-cotransporter NBCn1 (Slc4a7) delays murine breast cancer development. Oncogene, 2016, 35, 2112-2122.	2.6	73
10	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
11	TMEM16A knockdown abrogates two different Ca2+-activated Clâ˜' currents and contractility of smooth muscle in rat mesenteric small arteries. Pflugers Archiv European Journal of Physiology, 2014, 466, 1391-1409.	1.3	59
12	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. Journal of Pharmacology and Experimental Therapeutics, 2011, 339, 842-850.	1.3	58
13	Intracellular pH in the Resistance Vasculature: Regulation and Functional Implications. Journal of Vascular Research, 2012, 49, 479-496.	0.6	52
14	Na+,HCO3 â˜'-cotransport is functionally upregulated during human breast carcinogenesis and required for the inverted pH gradient across the plasma membrane. Pflugers Archiv European Journal of Physiology, 2015, 467, 367-377.	1.3	52
15	Cationâ€Coupled Bicarbonate Transporters. , 2014, 4, 1605-1637.		48
16	NHE1 knockout reduces blood pressure and arterial media/lumen ratio with no effect on resting pH_i in the vascular wall. Journal of Physiology, 2012, 590, 1895-1906.	1.3	47
17	Vasomotion has chloride-dependency in rat mesenteric small arteries. Pflugers Archiv European Journal of Physiology, 2008, 457, 389-404.	1.3	44
18	Na + , HCO 3 Ââ˜' -cotransporter NBCn1 increases pH i gradients, filopodia, and migration of smooth muscle cells and promotes arterial remodelling. Cardiovascular Research, 2016, 111, 227-239.	1.8	41

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19	Extracellular Êœ á´„ á´3Ì... is sensed by mouse cerebral arteries: Regulation of tone by receptor protein tyrosine phosphatase Î³. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 965-980.	2.4	40
20	Na+,HCO3â€“-cotransporter NBCn1 (Slc4a7) accelerates ErbB2-induced breast cancer development and tumor growth in mice. Oncogene, 2018, 37, 5569-5584.	2.6	38
21	Insulin inhibits Na⁺/H⁺exchange in vascular smooth muscle and endothelial cells in situ: involvement of H₂O₂and tyrosine phosphatase SHP-2. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H247-H255.	1.5	32
22	Splice Cassette II of Na+,HCO3â^' Cotransporter NBCn1 (slc4a7) Interacts with Calcineurin A. Journal of Biological Chemistry, 2013, 288, 8146-8155.	1.6	32
23	Acidâ€“base regulation and sensing: Accelerators and brakes in metabolic regulation of cerebrovascular tone. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 588-602.	2.4	30
24	Na+,HCO3â^' cotransporter NBCn1 accelerates breast carcinogenesis. Cancer and Metastasis Reviews, 2019, 38, 165-178.	2.7	30
25	Endothelial alkalinisation inhibits gap junction communication and endotheliumâ€derived hyperpolarisations in mouse mesenteric arteries. Journal of Physiology, 2013, 591, 1447-1461.	1.3	28
26	Gramâ€Scale Solutionâ€Phase Synthesis of Selective Sodium Bicarbonate Coâ€transport Inhibitor S0859: inâ€...vitro Efficacy Studies in Breast Cancer Cells. ChemMedChem, 2012, 7, 1808-1814.	1.6	27
27	Intracellular Acidification Alters Myogenic Responsiveness and Vasomotion of Mouse Middle Cerebral Arteries. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 161-168.	2.4	26
28	Acidâ€“base transporters modulate cell migration, growth and proliferation: Implications for structure development and remodeling of resistance arteries?. Trends in Cardiovascular Medicine, 2013, 23, 59-65.	2.3	24
29	The bestrophin- and TMEM16A-associated Ca²⁺-activated Cl^{â€“}channels in vascular smooth muscles. Channels, 2014, 8, 361-369.	1.5	23
30	Carbonic anhydrase inhibitors modify intracellular pH transients and contractions of rat middle cerebral arteries during CO₂/HCO₃^{â€“} fluctuations. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 492-505.	2.4	22
31	Increased NBCn1 expression, Na ⁺ /HCO ₃ ⁻ co-transport and intracellular pH in human vascular smooth muscle cells with a risk allele for hypertension. Human Molecular Genetics, 2017, 26, ddx015.	1.4	21
32	Acid-base transporters and pH dynamics in human breast carcinomas predict proliferative activity, metastasis, and survival. ELife, 2021, 10, .	2.8	21
33	Disturbed acid-base transport: an emerging cause of hypertension. Frontiers in Physiology, 2013, 4, 388.	1.3	20
34	Targeting the Acidic Tumor Microenvironment: Unexpected Pro-Neoplastic Effects of Oral NaHCO3 Therapy in Murine Breast Tissue. Cancers, 2020, 12, 891.	1.7	19
35	Synthesis of N-cyano-substituted sulfilimine and sulfoximine derivatives of S0859 and their biological evaluation as sodium bicarbonate co-transport inhibitors. MedChemComm, 2015, 6, 2163-2169.	3.5	18
36	Extracellular acidosis and very low [Na⁺] inhibit NBCn1- and NHE1-mediated net acid extrusion from mouse vascular smooth muscle cells. Acta Physiologica, 2017, 221, 129-141.	1.8	18

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37	Negative News: Cl^{â^'}and HCO₃^{â^'}in the Vascular Wall. Physiology, 2016, 31, 370-383.	1.6	16
38	Vaginal, Cervical and Uterine pH in Women with Normal and Abnormal Vaginal Microbiota. Pathogens, 2021, 10, 90.	1.2	16
39	PTPRG is an ischemia risk locus essential for HCO3â€“-dependent regulation of endothelial function and tissue perfusion. ELife, 2020, 9, .	2.8	15
40	Perivascular tissue inhibits rhoâ€kinaseâ€dependent smooth muscle Ca²⁺ sensitivity and endotheliumâ€dependent H₂S signalling in rat coronary arteries. Journal of Physiology, 2015, 593, 4747-4764.	1.3	14
41	Crosstalk between cardiomyocyte-rich perivascular tissue and coronary arteries is reduced in the Zucker Diabetic Fatty rat model of type 2 diabetes mellitus. Acta Physiologica, 2017, 219, 227-238.	1.8	14
42	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
43	Murine breast cancer feed arteries are thin-walled with reduced Î±1A-adrenoceptor expression and attenuated sympathetic vasocontraction. Breast Cancer Research, 2018, 20, 20.	2.2	10
44	Upregulated Na⁺/H⁺-Exchange Protects Human Colon Cancer Tissue against Intracellular Acidification. BioMed Research International, 2019, 2019, 1-5.	0.9	10
45	Increased Contractile Function of Human Saphenous Vein Grafts Harvested by â€œNo-Touchâ€•Technique. Frontiers in Physiology, 2018, 8, 1135.	1.3	8
46	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
47	The solution to bicarbonate. American Journal of Physiology - Heart and Circulatory Physiology, 2022, 322, H685-H686.	1.5	8
48	New roles of factors from perivascular tissue in regulation of vascular tone. Acta Physiologica, 2016, 216, 159-162.	1.8	7
49	A novel method to isolate retinal and brain microvessels from individual rats: Microscopic and molecular biological characterization and application in hyperglycemic animals. Vascular Pharmacology, 2018, 110, 24-30.	1.0	7
50	Sodium bicarbonate cotransporter NBCn1/Slc4a7 affects locomotor activity and hearing in mice. Behavioural Brain Research, 2021, 401, 113065.	1.2	7
51	NBCn1 Increases NH4 + Reabsorption Across Thick Ascending Limbs, the Capacity for Urinary NH4 + Excretion, and Early Recovery from Metabolic Acidosis. Journal of the American Society of Nephrology: JASN, 2021, 32, 852-865.	3.0	7
52	Increased Alcohol Consumption in Mice Lacking Sodium Bicarbonate Transporter NBCn1. Scientific Reports, 2020, 10, 11017.	1.6	6
53	Acidosis inhibits rhythmic contractions of human thoracic ducts. Physiological Reports, 2019, 7, e14074.	0.7	5
54	Amplified Ca²⁺ dynamics and accelerated cell proliferation in breast cancer tissue during purinergic stimulation. International Journal of Cancer, 2022, 151, 1150-1165.	2.3	5

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55	Loss of RPTPÎ³ 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
56	LBOS 02-04 BLOOD PRESSURE-ASSOCIATED POLYMORPHISMS IN SLC4A7â€Š(SODIUM/BICARBONATE) Tj ETQq0 0 0 rgBT /Overlock 10 of Hypertension, 2016, 34, e549-e550.	0.3	1
57	Prior renovascular hypertension does not predispose to atherosclerosis in mice. Atherosclerosis, 2016, 249, 157-163.	0.4	1
58	Localization of NBCn1 (slc4a7) by a nonâ€immunological method. FASEB Journal, 2007, 21, A1283.	0.2	1
59	482 Acid-extruding Proteins as Potential Novel Targets in Human Breast Cancer. European Journal of Cancer, 2012, 48, S116.	1.3	0
60	P069 Na+,HCOâ¯3 cotransport mediates upregulated acid extrusion during human breast carcinogenesis. Breast, 2015, 24, S50-S51.	0.9	0
61	Mechanism of net acid extrusion from human breast cancer tissue depends on histopathology and the expression of sex hormone and growth factor receptors. European Journal of Cancer, 2018, 92, S126-S127.	1.3	0
62	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
63	Chloride substitution inhibits vasomotion in rat mesenteric resistance arteries. FASEB Journal, 2007, 21, A521.	0.2	0
64	Abstract P3-03-02: Na+,HCO3–cotransport is the major mechanism of cellular acid extrusion in human and murine breast cancer. , 2013, , .		0