

Mordecai P Blaustein

List of Publications by Year in descending order

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76
papers

6,225
citations

109264

35
h-index

91828

69
g-index

76
all docs

76
docs citations

76
times ranked

3960
citing authors

#	ARTICLE	IF	CITATIONS
1	Sodium/Calcium Exchange: Its Physiological Implications. <i>Physiological Reviews</i> , 1999, 79, 763-854.	13.1	1,551
2	A circulating inhibitor of (Na ⁺ + K ⁺) ATPase associated with essential hypertension. <i>Nature</i> , 1982, 300, 650-652.	13.7	585
3	The interrelationship between sodium and calcium fluxes across cell membranes. , 1974, 70, 33-82.		534
4	Salt-sensitive hypertension is triggered by Ca ²⁺ entry via Na ⁺ /Ca ²⁺ exchanger type-1 in vascular smooth muscle. <i>Nature Medicine</i> , 2004, 10, 1193-1199.	15.2	252
5	How NaCl raises blood pressure: a new paradigm for the pathogenesis of salt-dependent hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H1031-H1049.	1.5	216
6	Na ⁺ /Ca ²⁺ exchange and Na ⁺ /K ⁺ ATPase in the heart. <i>Journal of Physiology</i> , 2015, 593, 1361-1382.	1.3	160
7	Sodium pump $\hat{1}\pm 2$ subunits control myogenic tone and blood pressure in mice. <i>Journal of Physiology</i> , 2005, 569, 243-256.	1.3	154
8	Basis of Tetrodotoxin's Selectivity in Blockage of Squid Axons. <i>Journal of General Physiology</i> , 1967, 50, 1401-1411.	0.9	132
9	The Pump, the Exchanger, and Endogenous Ouabain. <i>Hypertension</i> , 2009, 53, 291-298.	1.3	124
10	Ouabain augments Ca ²⁺ transients in arterial smooth muscle without raising cytosolic Na ⁺ . <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 279, H679-H691.	1.5	120
11	How does salt retention raise blood pressure?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R514-R523.	0.9	118
12	Plasma Membrane-Cytoskeleton-Endoplasmic Reticulum Complexes in Neurons and Astrocytes. <i>Journal of Biological Chemistry</i> , 2004, 279, 2885-2893.	1.6	115
13	Na ⁺ entry via store-operated channels modulates Ca ²⁺ signaling in arterial myocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2000, 278, C163-C173.	2.1	110
14	Na ⁺ pump $\hat{1}\pm 2$ -subunit expression modulates Ca ²⁺ signaling. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 284, C475-C486.	2.1	110
15	Distinct Distribution of Different Na ⁺ Pump ? Subunit Isoforms in Plasmalemma.. <i>Annals of the New York Academy of Sciences</i> , 1997, 834, 524-536.	1.8	104
16	Local subplasma membrane Ca ²⁺ signals detected by a tethered Ca ²⁺ sensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 13232-13237.	3.3	86
17	Localization of the Na ⁺ -Ca ²⁺ Exchanger in Vascular Smooth Muscle, and in Neurons and Astrocytesa. <i>Annals of the New York Academy of Sciences</i> , 1996, 779, 318-335.	1.8	84
18	Location of calcium transporters at presynaptic terminals. <i>European Journal of Neuroscience</i> , 2000, 12, 839-846.	1.2	78

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19	Modulation of two functionally distinct Ca ²⁺ stores in astrocytes: Role of the plasmalemmal Na/Ca exchanger. <i>Glia</i> , 1996, 16, 296-305.	2.5	77
20	Unloading and refilling of two classes of spatially resolved endoplasmic reticulum Ca ²⁺ stores in astrocytes. <i>Glia</i> , 2000, 31, 15-28.	2.5	77
21	Na ⁺ /Ca ²⁺ Exchange Inhibitors: A New Class of Calcium Regulators. <i>Cardiovascular & Hematological Disorders Drug Targets</i> , 2007, 7, 188-198.	0.2	76
22	Knockout of Na ⁺ /Ca ²⁺ exchanger in smooth muscle attenuates vasoconstriction and L-type Ca ²⁺ channel current and lowers blood pressure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H1472-H1483.	1.5	71
23	Upregulation of Na ⁺ and Ca ²⁺ transporters in arterial smooth muscle from ouabain-induced hypertensive rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H263-H274.	1.5	69
24	ATP-dependent calcium storage in presynaptic nerve terminals. <i>Nature</i> , 1977, 265, 246-248.	13.7	66
25	Heterogeneity of mitochondrial matrix free Ca ²⁺ : resolution of Ca ²⁺ dynamics in individual mitochondria in situ. <i>American Journal of Physiology - Cell Physiology</i> , 1999, 276, C1193-C1204.	2.1	64
26	Signaling mechanisms that link salt retention to hypertension: Endogenous ouabain, the Na ⁺ pump, the Na ⁺ /Ca ²⁺ exchanger and TRPC proteins. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2010, 1802, 1219-1229.	1.8	60
27	Endogenous Ouabain. <i>Hypertension</i> , 2016, 68, 526-532.	1.3	58
28	Synaptic vesicle recycling in synaptosomes in vitro. <i>Nature</i> , 1976, 261, 255-256.	13.7	56
29	An N-terminal Sequence Targets and Tethers Na ⁺ Pump $\hat{1}\pm 2$ Subunits to Specialized Plasma Membrane Microdomains. <i>Journal of Biological Chemistry</i> , 2006, 281, 12929-12940.	1.6	53
30	Pivotal role of $\hat{1}\pm 2$ Na ⁺ pumps and their high affinity ouabain binding site in cardiovascular health and disease. <i>Journal of Physiology</i> , 2016, 594, 6079-6103.	1.3	50
31	Ouabain, endogenous ouabain and ouabain-like factors: The Na ⁺ pump/ouabain receptor, its linkage to NCX, and its myriad functions. <i>Cell Calcium</i> , 2020, 86, 102159.	1.1	47
32	Ouabain $\hat{1}\pm 2$ digoxin antagonism in rat arteries and neurones. <i>Journal of Physiology</i> , 2014, 592, 941-969.	1.3	43
33	TTX-sensitive voltage-gated Na ⁺ channels are expressed in mesenteric artery smooth muscle cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 289, H137-H145.	1.5	41
34	The pump, the exchanger, and the holy spirit: origins and 40-year evolution of ideas about the ouabain-Na ⁺ pump endocrine system. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 314, C3-C26.	2.1	41
35	Increased arterial smooth muscle Ca ²⁺ signaling, vasoconstriction, and myogenic reactivity in Milan hypertensive rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H611-H620.	1.5	37
36	Calcium Buffering and Free Ca ²⁺ in Rat Brain Synaptosomes. <i>Journal of Neurochemistry</i> , 1993, 60, 843-850.	2.1	36

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37	Salt sensitivity, endogenous ouabain and hypertension. <i>Current Opinion in Nephrology and Hypertension</i> , 2012, 22, 1.	1.0	36
38	Evolution of our understanding of cell volume regulation by the pump-leak mechanism. <i>Journal of General Physiology</i> , 2019, 151, 407-416.	0.9	35
39	Why isn't endogenous ouabain more widely accepted?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H635-H639.	1.5	34
40	Neuroendocrine Humoral and Vascular Components in the Pressor Pathway for Brain Angiotensin II: A New Axis in Long Term Blood Pressure Control. <i>PLoS ONE</i> , 2014, 9, e108916.	1.1	31
41	Organization of Ca ²⁺ Stores in Vascular Smooth Muscle: Functional Implications. <i>Novartis Foundation Symposium</i> , 2008, , 125-141.	1.2	30
42	Update on angiotensin II: new endocrine connections between the brain, adrenal glands and the cardiovascular system. <i>Endocrine Connections</i> , 2017, 6, R131-R145.	0.8	30
43	Low-dose ouabain constricts small arteries from ouabain-hypertensive rats: implications for sustained elevation of vascular resistance. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 297, H1140-H1150.	1.5	28
44	Nanomolar ouabain increases NCX1 expression and enhances Ca ²⁺ signaling in human arterial myocytes: a mechanism that links salt to increased vascular resistance?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 303, H784-H794.	1.5	27
45	Nanomolar ouabain augments Ca ²⁺ signalling in rat hippocampal neurones and glia. <i>Journal of Physiology</i> , 2013, 591, 1671-1689.	1.3	27
46	Sex, Digitalis, and the Sodium Pump. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2003, 3, 68-72.	3.4	27
47	Cross Talk Between Plasma Membrane Na ⁺ /Ca ²⁺ Exchanger-1 and TRPC/Orai-Containing Channels: Key Players in Arterial Hypertension. <i>Advances in Experimental Medicine and Biology</i> , 2013, 961, 365-374.	0.8	26
48	Commentary: What is the Link Between Vascular Smooth Muscle Sodium Pumps and Hypertension?. <i>Clinical and Experimental Hypertension</i> , 1981, 3, 173-178.	1.2	25
49	Chronic ouabain treatment induces vasa recta endothelial dysfunction in the rat. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, F98-F106.	1.3	23
50	In vivo assessment of artery smooth muscle [Ca ²⁺] _i and MLCK activation in FRET-based biosensor mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H946-H956.	1.5	23
51	Central and peripheral slow-pressor mechanisms contributing to Angiotensin II-salt hypertension in rats. <i>Cardiovascular Research</i> , 2018, 114, 233-246.	1.8	20
52	Local Sodium, Global Reach. <i>Circulation Research</i> , 2007, 101, 959-961.	2.0	17
53	How does pressure overload cause cardiac hypertrophy and dysfunction? High-ouabain affinity cardiac Na ⁺ pumps are crucial. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 313, H919-H930.	1.5	16
54	Organization of Ca ²⁺ stores in vascular smooth muscle: functional implications. <i>Novartis Foundation Symposium</i> , 2002, 246, 125-37; discussion 137-41, 221-7.	1.2	15

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55	Getting a grip on calcium regulation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18349-18350.	3.3	11
56	Arterial Ca^{2+} - Na^{+} pump expression influences blood pressure: lessons from novel, genetically engineered smooth muscle-specific Ca^{2+} mice. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H958-H968.	1.5	11
57	Letter to the Editor concerning Baecher et al. (Clin Chim Acta 2014;431:87-92). Clinica Chimica Acta, 2015, 448, 248-249.	0.5	10
58	NO-induced vasodilation correlates directly with BP in smooth muscle-Na/Ca exchanger-1-engineered mice: elevated BP does not attenuate endothelial function. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H221-H237.	1.5	10
59	Na^{+} / Ca^{2+} exchanger overexpression in smooth muscle augments cytosolic Ca^{2+} in femoral arteries of living mice. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H298-H310.	1.5	9
60	Attenuated renal vascular responses to acute angiotensin II infusion in smooth muscle-specific Na^{+} / Ca^{2+} exchanger knockout mice. American Journal of Physiology - Renal Physiology, 2011, 301, F574-F579.	1.3	8
61	Multipurpose Na^{+} ions mediate excitation and cellular homeostasis: Evolution of the concept of Na^{+} pumps and Na^{+} / Ca^{2+} exchangers. Cell Calcium, 2020, 87, 102166.	1.1	8
62	Modulation of two functionally distinct Ca^{2+} stores in astrocytes: Role of the plasmalemmal Na^{+} / Ca^{2+} exchanger. Glia, 1996, 16, 296-305.	2.5	6
63	How Does the Brain Talk to the Arteries and Heart?. FASEB Journal, 2015, 29, 984.3.	0.2	6
64	Livin [™] with NCX and Lovin [™] It: A 45 Year Romance. Advances in Experimental Medicine and Biology, 2013, 961, 3-15.	0.8	5
65	Why publish in the <i>American Journal of Physiology-Heart and Circulatory Physiology</i> ? American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H221-H223.	1.5	4
66	Abstract 400: Angiotensin II Triggers the Same Pressor Mechanisms in Salt-sensitive Hypertension and During Salt Depletion. Hypertension, 2013, 62, .	1.3	3
67	Reply to "Letter to the editor: 'Why isn't clinical experience with ouabain more widely accepted?'" American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H1264-H1265.	1.5	2
68	Reply to "Letter to the editor: Comments on Blaustein (2018): 'The pump, the exchanger, and the holy spirit: origins and 40-year evolution of ideas about the ouabain- Na^{+} pump endocrine system'" American Journal of Physiology - Cell Physiology, 2018, 314, C641-C642.	2.1	2
69	Essential contributions of the Ca^{2+} - Na^{+} /K ⁺ -ATPase ouabain binding site to cardiac remodeling. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 321, H1117-H1118.	1.5	2
70	Unloading and refilling of two classes of spatially resolved endoplasmic reticulum Ca^{2+} stores in astrocytes. , 0, .		1
71	It was the best of times " a postdoctoral experience in the UK in the 1960s. , 2016, , 32-35.		1
72	On the mechanism of myogenic tone in small arteries. Journal of Muscle Research and Cell Motility, 2004, 25, 615.	0.9	1

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73	Cardiovascular Effects of Chronic Intermittent Hypoxia in Mice. FASEB Journal, 2006, 20, .	0.2	0
74	Relationship between Na pump alpha ² subunit, Na/Ca exchanger and ankyrin B expression at plasma membrane ² endoplasmic reticulum (PM ² ER) junctions. FASEB Journal, 2007, 21, A534.	0.2	0
75	Renal Vascular Responses Are Attenuated in Smooth Muscle ² Specific Na ⁺ /Ca ²⁺ Exchanger Knockout Mice during Acute Angiotensin II Infusions. FASEB Journal, 2010, 24, 1059.19.	0.2	0
76	Sorting of α ² and α ³ Na ⁺ Pumps in Glia and Neurons: Linkage with Na/Ca Exchanger ¹ . FASEB Journal, 2010, 24, 607.6.	0.2	0