

Jonathan Lytton

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87
papers

12,117
citations

44
h-index

90
g-index

90
ext. papers

12,693
ext. citations

6.6
avg, IF

5.86
L-index

#	Paper	IF	Citations
87	Cloning and characterization of an extracellular Ca(2+)-sensing receptor from bovine parathyroid. <i>Nature</i> , 1993 , 366, 575-80	50.4	2224
86	Thapsigargin inhibits the sarcoplasmic or endoplasmic reticulum Ca-ATPase family of calcium pumps.. <i>Journal of Biological Chemistry</i> , 1991 , 266, 17067-17071	5.4	920
85	Cloning and expression of an inwardly rectifying ATP-regulated potassium channel. <i>Nature</i> , 1993 , 362, 31-8	50.4	871
84	Thapsigargin inhibits the sarcoplasmic or endoplasmic reticulum Ca-ATPase family of calcium pumps. <i>Journal of Biological Chemistry</i> , 1991 , 266, 17067-71	5.4	861
83	Functional comparisons between isoforms of the sarcoplasmic or endoplasmic reticulum family of calcium pumps.. <i>Journal of Biological Chemistry</i> , 1992 , 267, 14483-14489	5.4	490
82	Functional comparisons between isoforms of the sarcoplasmic or endoplasmic reticulum family of calcium pumps. <i>Journal of Biological Chemistry</i> , 1992 , 267, 14483-9	5.4	466
81	Molecular cloning, primary structure, and characterization of two members of the mammalian electroneutral sodium-(potassium)-chloride cotransporter family expressed in kidney. <i>Journal of Biological Chemistry</i> , 1994 , 269, 17713-22	5.4	372
80	Primary structure and functional expression of a cDNA encoding the thiazide-sensitive, electroneutral sodium-chloride cotransporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993 , 90, 2749-53	11.5	316
79	cDNA Cloning, functional expression, and mRNA Tissue Distribution of a Third Organellar Ca ²⁺ Pump. <i>Journal of Biological Chemistry</i> , 1989 , 264, 18561-18568	5.4	290
78	cDNA cloning, functional expression, and mRNA tissue distribution of a third organellar Ca ²⁺ pump. <i>Journal of Biological Chemistry</i> , 1989 , 264, 18561-8	5.4	287
77	Na ⁺ /Ca ²⁺ exchangers: three mammalian gene families control Ca ²⁺ transport. <i>Biochemical Journal</i> , 2007 , 406, 365-82	3.8	283
76	Localization and quantification of endoplasmic reticulum Ca(2+)-ATPase isoform transcripts. <i>American Journal of Physiology - Cell Physiology</i> , 1995 , 269, C775-84	5.4	283
75	Molecular cloning of cDNAs from human kidney coding for two alternatively spliced products of the cardiac Ca ²⁺ -ATPase gene. <i>Journal of Biological Chemistry</i> , 1988 , 263, 15024-31	5.4	273
74	Molecular cloning of cDNAs from human kidney coding for two alternatively spliced products of the cardiac Ca ²⁺ -ATPase gene.. <i>Journal of Biological Chemistry</i> , 1988 , 263, 15024-15031	5.4	273
73	Enrichment of endoplasmic reticulum with cholesterol inhibits sarcoplasmic-endoplasmic reticulum calcium ATPase-2b activity in parallel with increased order of membrane lipids: implications for depletion of endoplasmic reticulum calcium stores and apoptosis in cholesterol-loaded macrophages. <i>Journal of Biological Chemistry</i> , 2004 , 279, 27080-9	5.4	218
72	Tissue-specific expression of Na(+)-Ca ²⁺ exchanger isoforms.. <i>Journal of Biological Chemistry</i> , 1994 , 269, 14849-14852	5.4	193
71	Tissue-specific expression of Na(+)-Ca ²⁺ exchanger isoforms. <i>Journal of Biological Chemistry</i> , 1994 , 269, 14849-52	5.4	181

70	The cation/Ca(2+) exchanger superfamily: phylogenetic analysis and structural implications. <i>Molecular Biology and Evolution</i> , 2004 , 21, 1692-703	8.3	178
69	Identification of two molecular forms of (Na+,K+)-ATPase in rat adipocytes. Relation to insulin stimulation of the enzyme.. <i>Journal of Biological Chemistry</i> , 1985 , 260, 1177-1184	5.4	151
68	Apical localization of the Na-K-Cl cotransporter, rBSC1, on rat thick ascending limbs. <i>Kidney International</i> , 1996 , 49, 40-7	9.9	142
67	Insulin affects the sodium affinity of the rat adipocyte (Na+,K+)-ATPase.. <i>Journal of Biological Chemistry</i> , 1985 , 260, 10075-10080	5.4	140
66	Molecular cloning of the mammalian smooth muscle sarco(endo)plasmic reticulum Ca2+-ATPase. <i>Journal of Biological Chemistry</i> , 1989 , 264, 7059-65	5.4	139
65	Identification of two molecular forms of (Na+,K+)-ATPase in rat adipocytes. Relation to insulin stimulation of the enzyme. <i>Journal of Biological Chemistry</i> , 1985 , 260, 1177-84	5.4	136
64	Store-operated cation entry mediated by CD20 in membrane rafts. <i>Journal of Biological Chemistry</i> , 2003 , 278, 42427-34	5.4	134
63	Molecular cloning and quantification of sarcoplasmic reticulum Ca(2+)-ATPase isoforms in rat muscles. <i>American Journal of Physiology - Cell Physiology</i> , 1993 , 264, C333-41	5.4	134
62	Insulin affects the sodium affinity of the rat adipocyte (Na+,K+)-ATPase. <i>Journal of Biological Chemistry</i> , 1985 , 260, 10075-80	5.4	113
61	Enhanced myocardial contractility and increased Ca2+ transport function in transgenic hearts expressing the fast-twitch skeletal muscle sarcoplasmic reticulum Ca2+-ATPase. <i>Circulation Research</i> , 1998 , 83, 889-97	15.7	109
60	Molecular cloning of a novel potassium-dependent sodium-calcium exchanger from rat brain. <i>Journal of Biological Chemistry</i> , 1998 , 273, 4155-62	5.4	105
59	Molecular cloning of a sixth member of the K+-dependent Na+/Ca2+ exchanger gene family, NCKX6. <i>Journal of Biological Chemistry</i> , 2004 , 279, 5867-76	5.4	90
58	Molecular cloning of a third member of the potassium-dependent sodium-calcium exchanger gene family, NCKX3. <i>Journal of Biological Chemistry</i> , 2001 , 276, 23161-72	5.4	87
57	Molecular cloning of a fourth member of the potassium-dependent sodium-calcium exchanger gene family, NCKX4. <i>Journal of Biological Chemistry</i> , 2002 , 277, 48410-7	5.4	79
56	A circularized sodium-calcium exchanger exon 2 transcript. <i>Journal of Biological Chemistry</i> , 1999 , 274, 8153-60	5.4	78
55	Rabbit cardiac and slow-twitch muscle express the same phospholamban gene. <i>FEBS Letters</i> , 1988 , 227, 51-5	3.8	72
54	Importance of K+-dependent Na+/Ca2+-exchanger 2, NCKX2, in motor learning and memory. <i>Journal of Biological Chemistry</i> , 2006 , 281, 6273-82	5.4	69
53	Stoichiometry of the Cardiac Na+/Ca2+ exchanger NCX1.1 measured in transfected HEK cells. <i>Biophysical Journal</i> , 2002 , 82, 1943-52	2.9	65

52	Molecular characterization and nephron distribution of a family of transcripts encoding the pore-forming subunit of Ca ²⁺ channels in the kidney. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 10494-8	11.5	64
51	Differential contribution of plasmalemmal Na/Ca exchange isoforms to sodium-dependent calcium influx and NMDA excitotoxicity in depolarized neurons. <i>Journal of Neurochemistry</i> , 2004 , 90, 117-28	6	60
50	Regulation of SERCA Ca ²⁺ pump expression by cytoplasmic Ca ²⁺ in vascular smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2001 , 280, C843-51	5.4	59
49	The nucleotide binding/hinge domain plays a crucial role in determining isoform-specific Ca ²⁺ dependence of organellar Ca(2+)-ATPases. <i>Journal of Biological Chemistry</i> , 1992 , 267, 14490-14496	5.4	59
48	Functional characterization of alternatively spliced human SERCA3 transcripts. <i>American Journal of Physiology - Cell Physiology</i> , 1998 , 275, C1449-58	5.4	57
47	Electrophysiological characterization and ionic stoichiometry of the rat brain K(+)-dependent NA(+)/CA(2+) exchanger, NCKX2. <i>Journal of Biological Chemistry</i> , 2001 , 276, 25919-28	5.4	54
46	K+-dependent Na+/Ca ²⁺ exchangers in the brain. <i>Annals of the New York Academy of Sciences</i> , 2002 , 976, 382-93	6.5	53
45	Intracellular calcium: molecules and pools. <i>Current Opinion in Cell Biology</i> , 1992 , 4, 220-6	9	50
44	The nucleotide binding/hinge domain plays a crucial role in determining isoform-specific Ca ²⁺ dependence of organellar Ca(2+)-ATPases. <i>Journal of Biological Chemistry</i> , 1992 , 267, 14490-6	5.4	49
43	The catalytic subunits of the (Na+,K+)-ATPase alpha and alpha(+) isozymes are the products of different genes. <i>Biochemical and Biophysical Research Communications</i> , 1985 , 132, 764-9	3.4	44
42	Metabolic regulation of sodium-calcium exchange by intracellular acyl CoAs. <i>EMBO Journal</i> , 2006 , 25, 4605-14	13	43
41	Distinct calcium channel isoforms mediate parathyroid hormone and chlorothiazide-stimulated calcium entry in transporting epithelial cells. <i>Journal of Membrane Biology</i> , 1998 , 161, 55-64	2.3	42
40	Inhibition of sarcoplasmic/endoplasmic reticulum calcium ATPases (SERCA) by polycyclic aromatic hydrocarbons in HPB-ALL human T cells and other tissues. <i>Toxicology and Applied Pharmacology</i> , 1995 , 133, 102-8	4.6	41
39	Determination of apparent calcium affinity for endogenously expressed human sarco(endo)plasmic reticulum calcium-ATPase isoform SERCA3. <i>American Journal of Physiology - Cell Physiology</i> , 2009 , 296, C1105-14	5.4	40
38	Novel role for K+-dependent Na+/Ca ²⁺ exchangers in regulation of cytoplasmic free Ca ²⁺ and contractility in arterial smooth muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 291, H1226-35	5.2	39
37	The molecular determinants of ionic regulatory differences between brain and kidney Na+/Ca ²⁺ exchanger (NCX1) isoforms. <i>Journal of Biological Chemistry</i> , 2002 , 277, 33957-62	5.4	38
36	Exchangers NCKX2, NCKX3, and NCKX4: identification of Thr-551 as a key residue in defining the apparent K(+) affinity of NCKX2. <i>Journal of Biological Chemistry</i> , 2007 , 282, 4453-4462	5.4	35
35	A critical role for the potassium-dependent sodium-calcium exchanger NCKX2 in protection against focal ischemic brain damage. <i>Journal of Neuroscience</i> , 2008 , 28, 2053-63	6.6	32

34	Upregulation of atrial natriuretic peptide gene expression in remnant kidney of rats with reduced renal mass. <i>Journal of the American Society of Nephrology: JASN</i> , 1998 , 9, 1613-9	12.7	31
33	Functional characterization and m-RNA expression of 5-HT receptors mediating contraction in human umbilical artery. <i>British Journal of Pharmacology</i> , 1999 , 127, 1247-55	8.6	30
32	An essential role for the K ⁺ -dependent Na ⁺ /Ca ²⁺ -exchanger, NCKX4, in melanocortin-4-receptor-dependent satiety. <i>Journal of Biological Chemistry</i> , 2014 , 289, 25445-59	5.4	29
31	Alternatively spliced isoforms of the rat eye sodium/calcium+potassium exchanger NCKX1. <i>American Journal of Physiology - Cell Physiology</i> , 2000 , 278, C651-60	5.4	29
30	KIF21A-mediated axonal transport and selective endocytosis underlie the polarized targeting of NCKX2. <i>Journal of Neuroscience</i> , 2012 , 32, 4102-17	6.6	28
29	The kidney sodium-calcium exchanger. <i>Annals of the New York Academy of Sciences</i> , 1996 , 779, 58-72	6.5	28
28	A novel topology and redox regulation of the rat brain K ⁺ -dependent Na ⁺ /Ca ²⁺ exchanger, NCKX2. <i>Journal of Biological Chemistry</i> , 2002 , 277, 48923-30	5.4	25
27	K ⁺ -dependent Na ⁺ /Ca ²⁺ exchangers: key contributors to Ca ²⁺ signaling. <i>Physiology</i> , 2007 , 22, 185-92	9.8	22
26	Preferential expression of plasmalemmal K-dependent Na ⁺ /Ca ²⁺ exchangers in neurons versus astrocytes. <i>NeuroReport</i> , 2002 , 13, 1529-32	1.7	21
25	Alternative promoters and cardiac muscle cell-specific expression of the Na ⁺ /Ca ²⁺ exchanger gene. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998 , 274, H217-32	5.2	19
24	Physiological and molecular characterization of the Na ⁺ /Ca ²⁺ exchanger in human platelets. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 277, H911-7	5.2	18
23	Inhibition of human SERCA3 by PL/IM430. Molecular analysis of the interaction. <i>Journal of Biological Chemistry</i> , 2003 , 278, 12482-8	5.4	17
22	Efflux of beta-galactosidase products from Escherichia coli. <i>Journal of Bacteriology</i> , 1980 , 141, 528-33	3.5	17
21	Protein kinase C-dependent enhancement of activity of rat brain NCKX2 heterologously expressed in HEK293 cells. <i>Journal of Biological Chemistry</i> , 2006 , 281, 39205-16	5.4	16
20	Differences in the subcellular localization of calreticulin and organellar Ca(2+)-ATPase in neurons. <i>Molecular Brain Research</i> , 1993 , 17, 9-16		16
19	Inhibition of sarco-endoplasmic reticulum calcium ATPases (SERCA) by polycyclic aromatic hydrocarbons: lack of evidence for direct effects on cloned rat enzymes. <i>International Journal of Immunopharmacology</i> , 1996 , 18, 589-98		12
18	Reduced Protein Expression of the Na/Ca+K-Exchanger (SLC24A4) in Apical Plasma Membranes of Maturation Ameloblasts of Fluorotic Mice. <i>Calcified Tissue International</i> , 2017 , 100, 80-86	3.9	11
17	Purinergic stimulation of K ⁺ -dependent Na ⁺ /Ca ²⁺ exchanger isoform 4 requires dual activation by PKC and CaMKII. <i>Bioscience Reports</i> , 2013 , 33,	4.1	10

16	Differential expression of Na/Ca exchanger and Na/Ca + K exchanger transcripts in rat brain. <i>Annals of the New York Academy of Sciences</i> , 2002 , 976, 64-6	6.5	9
15	Ca ²⁺ in the dense tubules: a model of platelet Ca ²⁺ load. <i>Hypertension</i> , 1998 , 31, 595-602	8.5	9
14	Involvement of the potassium-dependent sodium/calcium exchanger gene product NCKX2 in the brain insult induced by permanent focal cerebral ischemia. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1099, 486-9	6.5	7
13	Potassium-dependent sodium-calcium exchanger (NCKX) isoforms and neuronal function. <i>Cell Calcium</i> , 2020 , 86, 102135	4	7
12	Topological studies of the rat brain K ⁺ -dependent Na ⁺ /Ca ²⁺ exchanger NCKX2. <i>Annals of the New York Academy of Sciences</i> , 2002 , 976, 90-3	6.5	4
11	Electrophysiological studies of the cloned rat cardiac NCX1.1 in transfected HEK cells: a focus on the stoichiometry. <i>Annals of the New York Academy of Sciences</i> , 2002 , 976, 159-65	6.5	4
10	Anatomical evidence for a non-synaptic influence of the K ⁺ -dependent Na ⁺ /Ca ²⁺ -exchanger, NCKX2, on hippocampal plasticity. <i>Neuroscience</i> , 2015 , 310, 372-88	3.9	3
9	Signal pathway analysis of selected obesity-associated melanocortin-4 receptor class V mutants. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020 , 1866, 165835	6.9	3
8	Rat heart NCX1.1 stoichiometry measured in a transfected cell system. <i>Annals of the New York Academy of Sciences</i> , 2002 , 976, 137-41	6.5	3
7	How many sodium ions does it take to turn an exchanger?. <i>Journal of Physiology</i> , 2002 , 545, 335	3.9	3
6	Studies on the oligomeric state of the sodium/calcium + potassium exchanger NCKX2. <i>Annals of the New York Academy of Sciences</i> , 2002 , 976, 94-6	6.5	2
5	Na ⁺ /Ca ²⁺ Exchangers and Ca ²⁺ Transport in Neurons 2007 , 225-241		2
4	Calmodulin binds and modulates K-dependent Na/Ca-exchanger isoform 4, NCKX4. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100092	5.4	0
3	Membrane Transporters: Na ⁺ /Ca ²⁺ Exchangers 2013 , 44-48		
2	The relationship between Ca ²⁺ -ATPase and freely exchangeable Ca ²⁺ in the dense tubules: a study in platelets from women. <i>American Journal of Hypertension</i> , 1999 , 12, 120-7	2.3	
1	Membrane Transport Membrane Transporters: Na ⁺ /Ca ²⁺ Exchangers 2021 , 966-977		