

Joseph R Hume

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11002922/publications.pdf>

Version: 2024-02-01

65
papers

3,601
citations

126907

33
h-index

168389

53
g-index

66
all docs

66
docs citations

66
times ranked

1914
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular identification of a volume-regulated chloride channel. <i>Nature</i> , 1997, 390, 417-421.	27.8	430
2	Anion Transport in Heart. <i>Physiological Reviews</i> , 2000, 80, 31-81.	28.8	208
3	Regulation of cardiac and smooth muscle Ca ²⁺ channels (Ca _v 1.2a,b) by protein kinases. <i>American Journal of Physiology - Cell Physiology</i> , 2001, 281, C1743-C1756.	4.6	198
4	[Ca ²⁺] _i Inhibition of K ⁺ Channels in Canine Pulmonary Artery. <i>Circulation Research</i> , 1995, 77, 131-139.	4.5	187
5	A Serine Residue in ClC-3 Links Phosphorylation–Dephosphorylation to Chloride Channel Regulation by Cell Volume. <i>Journal of General Physiology</i> , 1999, 113, 57-70.	1.9	152
6	Differential expression and alternative splicing of TRP channel genes in smooth muscles. <i>American Journal of Physiology - Cell Physiology</i> , 2001, 280, C1184-C1192.	4.6	133
7	Prominent role of intracellular Ca ²⁺ release in hypoxic vasoconstriction of canine pulmonary artery. <i>British Journal of Pharmacology</i> , 1997, 122, 21-30.	5.4	124
8	Functional and molecular expression of volume–regulated chloride channels in canine vascular smooth muscle cells. <i>Journal of Physiology</i> , 1998, 507, 729-736.	2.9	117
9	Heterogeneity of calcium stores and elementary release events in canine pulmonary arterial smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2001, 280, C22-C33.	4.6	109
10	ClC-3 Is a Fundamental Molecular Component of Volume-sensitive Outwardly Rectifying Cl ⁻ Channels and Volume Regulation in HeLa Cells and <i>Xenopus laevis</i> Oocytes. <i>Journal of Biological Chemistry</i> , 2002, 277, 40066-40074.	3.4	99
11	Modulation of Ca ²⁺ Channels by Cyclic Nucleotide Cross Activation of Opposing Protein Kinases in Rabbit Portal Vein. <i>Circulation Research</i> , 1998, 82, 557-565.	4.5	98
12	Unitary Cl ⁻ Channels Activated by Cytoplasmic Ca ²⁺ in Canine Ventricular Myocytes. <i>Circulation Research</i> , 1996, 78, 936-944.	4.5	92
13	TRPC1 and STIM1 mediate capacitative Ca ²⁺ entry in mouse pulmonary arterial smooth muscle cells. <i>Journal of Physiology</i> , 2009, 587, 2429-2442.	2.9	91
14	Altered properties of volume–sensitive osmolyte and anion channels (VSOACs) and membrane protein expression in cardiac and smooth muscle myocytes from <i>Clcn3</i> ^{-/-} mice. <i>Journal of Physiology</i> , 2004, 557, 439-456.	2.9	87
15	Inhibitory Effects of Glibenclamide on Cystic Fibrosis Transmembrane Regulator, Swelling-Activated, and Ca ²⁺ -Activated Cl ⁻ Channels in Mammalian Cardiac Myocytes. <i>Circulation Research</i> , 1997, 81, 101-109.	4.5	85
16	Functional inhibition of native volume–sensitive outwardly rectifying anion channels in muscle cells and <i>Xenopus</i> oocytes by anti-ClC-3 antibody. <i>Journal of Physiology</i> , 2001, 531, 437-444.	2.9	77
17	Functional effects of novel anti-ClC-3 antibodies on native volume-sensitive osmolyte and anion channels in cardiac and smooth muscle cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H1453-H1463.	3.2	73
18	[Ca ²⁺] _i Inhibition of K ⁺ Channels in Canine Renal Artery. <i>Circulation Research</i> , 1995, 77, 121-130.	4.5	68

#	ARTICLE	IF	CITATIONS
19	Functional role of anion channels in cardiac diseases1. <i>Acta Pharmacologica Sinica</i> , 2005, 26, 265-278.	6.1	65
20	Evidence That Outwardly Rectifying Cl ⁻ Channels Underlie Volume-Regulated Cl ⁻ Currents in Heart. <i>Circulation Research</i> , 1997, 80, 103-113.	4.5	65
21	ClC ϵ chloride channel is upregulated by hypertrophy and inflammation in rat and canine pulmonary artery. <i>British Journal of Pharmacology</i> , 2005, 145, 5-14.	5.4	64
22	Mobilization of sarcoplasmic reticulum stores by hypoxia leads to consequent activation of capacitative Ca ²⁺ entry in isolated canine pulmonary arterial smooth muscle cells. <i>Journal of Physiology</i> , 2005, 563, 409-419.	2.9	63
23	A Novel Anionic Inward Rectifier in Native Cardiac Myocytes. <i>Circulation Research</i> , 2000, 86, .	4.5	58
24	Functional and molecular identification of a novel chloride conductance in canine colonic smooth muscle. <i>American Journal of Physiology - Cell Physiology</i> , 1998, 275, C940-C950.	4.6	54
25	Molecular distribution of volume-regulated chloride channels (ClC-2 and ClC-3) in cardiac tissues. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 279, H2225-H2233.	3.2	47
26	Comparative Capacitative Calcium Entry Mechanisms in Canine Pulmonary and Renal Arterial Smooth Muscle Cells. <i>Journal of Physiology</i> , 2002, 543, 917-931.	2.9	47
27	Orai1 interacts with STIM1 and mediates capacitative Ca ²⁺ entry in mouse pulmonary arterial smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 299, C1079-C1090.	4.6	44
28	Cardiac-specific, inducible ClC-3 gene deletion eliminates native volume-sensitive chloride channels and produces myocardial hypertrophy in adult mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 211-219.	1.9	43
29	Unitary Chloride Channels Activated by Protein Kinase C in Guinea Pig Ventricular Myocytes. <i>Circulation Research</i> , 1995, 76, 317-324.	4.5	42
30	TRPC1 and Orai1 interact with STIM1 and mediate capacitative Ca ²⁺ entry caused by acute hypoxia in mouse pulmonary arterial smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 303, C1156-C1172.	4.6	41
31	Purinoreceptor-coupled Cl ⁻ channels in mouse heart: a novel, alternative pathway for CFTR regulation. <i>Journal of Physiology</i> , 1999, 521, 43-56.	2.9	40
32	Intracellular cyclic AMP inhibits native and recombinant volume-regulated chloride channels from mammalian heart. <i>Journal of Physiology</i> , 2000, 523, 705-717.	2.9	37
33	Cell culture alters Ca ²⁺ entry pathways activated by store-depletion or hypoxia in canine pulmonary arterial smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 294, C313-C323.	4.6	36
34	Regulation of Recombinant Cardiac Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channels by Protein Kinase C. <i>Biophysical Journal</i> , 1999, 76, 1972-1987.	0.5	32
35	Regulation of volume-sensitive outwardly rectifying anion channels in pulmonary arterial smooth muscle cells by PKC. <i>American Journal of Physiology - Cell Physiology</i> , 2002, 283, C1627-C1636.	4.6	31
36	Histamine Activates the Chloride Current in Cardiac Ventricular Myocytes. <i>Journal of Cardiovascular Electrophysiology</i> , 1990, 1, 309-317.	1.7	30

#	ARTICLE	IF	CITATIONS
37	Regulation of L-type Ca ²⁺ channels in rabbit portal vein by G protein $\hat{\alpha}$ and $\hat{\beta}$ subunits. Journal of Physiology, 1999, 517, 109-120.	2.9	29
38	Role of basal extracellular Ca ²⁺ entry during 5-HT-induced vasoconstriction of canine pulmonary arteries. British Journal of Pharmacology, 2005, 144, 252-264.	5.4	29
39	Hypotonic activation of volume-sensitive outwardly rectifying chloride channels in cultured PSMCs is modulated by SGK. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H533-H544.	3.2	28
40	$\hat{\alpha}$ Adrenergic receptor stimulation of L-type Ca ²⁺ channels in rabbit portal vein myocytes involves both $\hat{\alpha}$ and $\hat{\beta}$ G protein subunits. Journal of Physiology, 2001, 531, 105-115.	2.9	27
41	Anchoring protein is required for cAMP-dependent stimulation of L-type Ca ²⁺ channels in rabbit portal vein. American Journal of Physiology - Cell Physiology, 1999, 277, C840-C844.	4.6	25
42	A Plethora of Cardiac Chloride Conductances: Molecular Diversity or a Related Gene Family. Journal of Cardiovascular Electrophysiology, 1995, 6, 325-331.	1.7	24
43	P2Y purinergic receptor regulation of CFTR chloride channels in mouse cardiac myocytes. Journal of Physiology, 2004, 556, 727-737.	2.9	24
44	Molecular mechanisms of regulation of fast-inactivating voltage-dependent transient outward K ⁺ current in mouse heart by cell volume changes. Journal of Physiology, 2005, 568, 423-443.	2.9	22
45	Hypotonic Activation of Short CLC3 Isoform Is Modulated by Direct Interaction between Its Cytosolic C-terminal Tail and Subcortical Actin Filaments. Journal of Biological Chemistry, 2007, 282, 16871-16877.	3.4	22
46	Functional Characterization of Novel Alternatively Spliced CLC-2 Chloride Channel Variants in the Heart. Journal of Biological Chemistry, 2005, 280, 25871-25880.	3.4	20
47	The Contribution of TRPC1 and STIM1 to Capacitative Ca ²⁺ Entry in Pulmonary Artery. Advances in Experimental Medicine and Biology, 2010, 661, 123-135.	1.6	18
48	Low osmolarity transforms ventricular fibrillation from complex to highly organized, with a dominant high-frequency source. Heart Rhythm, 2006, 3, 1210-1220.	0.7	17
49	CARDIAC-SPECIFIC OVEREXPRESSION OF THE HUMAN SHORT CLC-3 CHLORIDE CHANNEL ISOFORM IN MICE. Clinical and Experimental Pharmacology and Physiology, 2009, 36, 386-393.	1.9	15
50	Caffeine inhibits InsP3 responses and capacitative calcium entry in canine pulmonary arterial smooth muscle cells. Vascular Pharmacology, 2009, 50, 89-97.	2.1	13
51	CLC-3 Chloride Channels in the Pulmonary Vasculature. Advances in Experimental Medicine and Biology, 2010, 661, 237-247.	1.6	10
52	Inhibition of Ryanodine Receptors by 4-(2-Aminopropyl)-3,5-dichloro-N,N-dimethylaniline (FLA 365) in Canine Pulmonary Arterial Smooth Muscle Cells. Journal of Pharmacology and Experimental Therapeutics, 2007, 323, 381-390.	2.5	7
53	Response : Sodium-Calcium Exchange. Science, 1991, 251, 1370-1371.	12.6	3
54	Regulation of the cAMP-Dependent Chloride Current in Cardiac Ventricular Myocytes. , 1992, , 221-229.		1

#	ARTICLE	IF	CITATIONS
55	Chloride Channels in Heart. , 2001, , 373-388.		0
56	Actin Filaments Interact with the Cytosolic Tails and Regulate Hypotonic Activation of ClC <i>ε</i> . FASEB Journal, 2007, 21, A963.	0.5	0
57	Reorganization of Intracellular Ca ²⁺ Stores Caused by Cell Culture Does Not Prevent Hypoxic-Induced Rise in [Ca ²⁺] _i in Canine Pulmonary Arterial Smooth Muscle Cells. FASEB Journal, 2007, 21, A923.	0.5	0
58	Altered Properties of Volume-Sensitive Outwardly Rectifying Chloride Currents in Atrial Myocytes from Heart Specific ClC <i>ε</i> Knockout Mice. FASEB Journal, 2007, 21, A963.	0.5	0
59	TRPC1 and STIM1 Mediate Capacitative Calcium Entry in Mouse Pulmonary Arterial Smooth Muscle Cells. FASEB Journal, 2008, 22, 965.23.	0.5	0
60	Disruption of the Actin Assembly and Microtubules Induces Export Trafficking and Activation of Human Short ClC <i>ε</i> in Cos <i>7</i> Cells. FASEB Journal, 2008, 22, 933.8.	0.5	0
61	TRPC1 Mediates Capacitative Calcium Entry through Activation of STIM1 in Mouse Pulmonary Arterial Smooth Muscle Cells. FASEB Journal, 2009, 23, 999.10.	0.5	0
62	TRPC1, STIM1 and Orai1 Mediate Capacitative Calcium Entry Activated by Acute Hypoxia in Mouse Pulmonary Arterial Smooth Muscle Cells. FASEB Journal, 2011, 25, 1102.6.	0.5	0
63	TRPC1 and Orai1 interact with STIM1 and Mediate Capacitative Calcium Entry Activated by Acute Hypoxia in Mouse Pulmonary Arterial Smooth Muscle Cells. FASEB Journal, 2012, 26, 700.5.	0.5	0
64	<i>Response</i> : Sodium-Calcium Exchange. Science, 1991, 251, 1370-1371.	12.6	0
65	Chloride channels in heart. Developments in Cardiovascular Medicine, 1996, , 187-196.	0.1	0