Nicolas Demaurex

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7149431/publications.pdf Version: 2024-02-01



12

#	Article	IF	CITATIONS
1	The mammalian trafficking chaperone protein UNC93B1 maintains the ER calcium sensor STIM1 in a dimeric state primed for translocation to the ER cortex. Journal of Biological Chemistry, 2022, 298, 101607.	3.4	3
2	Enforced tethering elongates the cortical endoplasmic reticulum and limits store-operated Ca2+ entry. Journal of Cell Science, 2022, 135, .	2.0	7
3	The TAM-associated STIM1I484R mutation increases ORAI1 channel function due to a reduced STIM1 inactivation break and an absence of microtubule trapping. Cell Calcium, 2022, 105, 102615.	2.4	8
4	Simultaneous determination of intraluminal lysosomal calcium and pH by dextran-conjugated fluorescent dyes. Methods in Cell Biology, 2021, 165, 199-208.	1.1	6
5	Proteins Interacting with STIM1 and Store-Operated Ca2+ Entry. Progress in Molecular and Subcellular Biology, 2021, 59, 51-97.	1.6	6
6	Control of lysosomal-mediated cell death by the pH-dependent calcium channel RECS1. Science Advances, 2021, 7, eabe5469.	10.3	14
7	S-acylation by ZDHHC20 targets ORAI1 channels to lipid rafts for efficient Ca2+ signaling by Jurkat T cell receptors at the immune synapse. ELife, 2021, 10, .	6.0	23
8	Molecular Mechanisms of Calcium Signaling During Phagocytosis. Advances in Experimental Medicine and Biology, 2020, 1246, 103-128.	1.6	8
9	Signaling and functional competency of neutrophils derived from bone-marrow cells expressing the ER-HOXB8 oncoprotein. Journal of Leukocyte Biology, 2019, 106, 1101-1115.	3.3	19
10	ORAI1 channel gating and selectivity is differentially altered by natural mutations in the first or third transmembrane domain. Journal of Physiology, 2019, 597, 561-582.	2.9	37
11	The role of STIM proteins in neutrophil functions. Journal of Physiology, 2018, 596, 2699-2708.	2.9	21
12	Ultrastructural Characterization of Flashing Mitochondria. Contact (Thousand Oaks (Ventura) Tj ETQq0 0 0 rgBT	/Overlock 1.3	19 Tf 50 30
13	GRAM marks the spot for STIM. Commentary on "GRAM domain proteins specialize functionally distinct ER-PM contact sites in human cells― Cell Calcium, 2018, 73, 70-71.	2.4	3
14	The Bicarbonate Transporter SLC4A7 Plays a Key Role in Macrophage Phagosome Acidification. Cell Host and Microbe, 2018, 23, 766-774.e5.	11.0	65
15	ORAI1 Mutations with Distinct Channel Gating Defects in Tubular Aggregate Myopathy. Human Mutation, 2017, 38, 426-438.	2.5	75
16	The ER phagosome connection in the era of membrane contact sites. Biochimica Et Biophysica Acta - Molecular Cell Research, 2017, 1864, 1513-1524.	4.1	29

17L― <scp>OPA</scp> 1 regulates mitoflash biogenesis independently from membrane fusion. EMBO Reports, 2017, 18, 451-463.4.5	27
---	----

18Redox Control of Mitochondrial Calcium Uptake. Molecular Cell, 2017, 65, 961-962.9.7

#	Article	IF	CITATIONS
19	The Role of Mitochondria in the Activation/Maintenance of SOCE: Membrane Contact Sites as Signaling Hubs Sustaining Store-Operated Ca2+ Entry. Advances in Experimental Medicine and Biology, 2017, 993, 277-296.	1.6	9
20	MitoNEET-dependent formation of intermitochondrial junctions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8277-8282.	7.1	49
21	STIM1 promotes migration, phagosomal maturation and antigen cross-presentation in dendritic cells. Nature Communications, 2017, 8, 1852.	12.8	52
22	UNC93B1 interacts with the calcium sensor STIM1 for efficient antigen cross-presentation in dendritic cells. Nature Communications, 2017, 8, 1640.	12.8	34
23	Illuminating redox biology using NADH- and NADPH-specific sensors. Nature Methods, 2017, 14, 671-672.	19.0	17
24	The antidepressant fluoxetine induces necrosis by energy depletion and mitochondrial calcium overload. Oncotarget, 2017, 8, 3181-3196.	1.8	39
25	Neutrophils: Their Role in Innate and Adaptive Immunity. Journal of Immunology Research, 2016, 2016, 1-2.	2.2	107
26	Redox modulation of STIM-ORAI signaling. Cell Calcium, 2016, 60, 142-152.	2.4	41
27	The role of STIM and ORAI proteins in phagocytic immune cells. American Journal of Physiology - Cell Physiology, 2016, 310, C496-C508.	4.6	57
28	Mitochondrial Flashes: Dump Superoxide and Dance with Protons Now. Antioxidants and Redox Signaling, 2016, 25, 550-551.	5.4	11
29	Measuring Phagosome pH by Ratiometric Fluorescence Microscopy. Journal of Visualized Experiments, 2015, , e53402.	0.3	19
30	STIM1L traps and gates Orai1 channels without remodeling the cortical ER. Journal of Cell Science, 2015, 128, 1568-79.	2.0	44
31	Junctate boosts phagocytosis by recruiting endoplasmic reticulum Ca2+ stores near phagosomes. Journal of Cell Science, 2015, 128, 4074-82.	2.0	31
32	Voltage-Gated Proton Channels as Novel Drug Targets: From NADPH Oxidase Regulation to Sperm Biology. Antioxidants and Redox Signaling, 2015, 23, 490-513.	5.4	49
33	Hv1 proton channels differentially regulate the pH of neutrophil and macrophage phagosomes by sustaining the production of phagosomal ROS that inhibit the delivery of vacuolar ATPases. Journal of Leukocyte Biology, 2014, 95, 827-839.	3.3	58
34	NCLX Protein, but Not LETM1, Mediates Mitochondrial Ca2+ Extrusion, Thereby Limiting Ca2+-induced NAD(P)H Production and Modulating Matrix Redox State. Journal of Biological Chemistry, 2014, 289, 20377-20385.	3.4	102
35	The â€~mitoflash' probe cpYFP does not respond to superoxide. Nature, 2014, 514, E12-E14.	27.8	109
36	Redox Regulation of Store-Operated Ca ²⁺ Entry. Antioxidants and Redox Signaling, 2014, 21, 915-932.	5.4	56

#	Article	IF	CITATIONS
37	OPA1 promotes pH flashes that spread between contiguous mitochondria without matrix protein exchange. EMBO Journal, 2013, 32, 1927-1940.	7.8	95
38	Regulation of the NADPH Oxidase and Associated Ion Fluxes During Phagocytosis. Traffic, 2013, 14, 1118-1131.	2.7	143
39	Mitochondrial Ca2+ Uptake from Plasma Membrane Cav3.2 Protein Channels Contributes to Ischemic Toxicity in PC12 Cells. Journal of Biological Chemistry, 2013, 288, 12459-12468.	3.4	25
40	mTOR complex 2-Akt signaling at mitochondria-associated endoplasmic reticulum membranes (MAM) regulates mitochondrial physiology. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12526-12534.	7.1	435
41	The Hv1 voltageâ€gated proton channel regulates the pH of neutrophil but not macrophage phagosomes. FASEB Journal, 2013, 27, 913.44.	0.5	0
42	The renaissance of mitochondrial pH. Journal of General Physiology, 2012, 139, 415-423.	1.9	172
43	Morphological and functional aspects of STIM1-dependent assembly and disassembly of store-operated calcium entry complexes. Biochemical Society Transactions, 2012, 40, 112-118.	3.4	10
44	STIM1 Juxtaposes ER to Phagosomes, Generating Ca2+ Hotspots that Boost Phagocytosis. Current Biology, 2012, 22, 1990-1997.	3.9	89
45	Functions of proton channels in phagocytes. Environmental Sciences Europe, 2012, 1, 3-15.	5.5	8
46	Regulation of the mitochondrial proton gradient by cytosolic Ca2+ signals. Pflugers Archiv European Journal of Physiology, 2012, 464, 19-26.	2.8	31
47	Do Hv1 proton channels regulate the ionic and redox homeostasis of phagosomes?. Molecular and Cellular Endocrinology, 2012, 353, 82-87.	3.2	18
48	Remodelling of the endoplasmic reticulum during storeâ€operated calcium entry. Biology of the Cell, 2011, 103, 365-380.	2.0	58
49	Mitochondrial calcium handling during ischemia-induced cell death in neurons. Biochimie, 2011, 93, 2060-2067.	2.6	57
50	Securin and Separase Modulate Membrane Traffic by Affecting Endosomal Acidification. Traffic, 2011, 12, 615-626.	2.7	24
51	The potential role of cobalt ions released from metal prosthesis on the inhibition of Hv1 proton channels and the decrease in Staphyloccocus epidermidis killing by human neutrophils. Biomaterials, 2011, 32, 1769-1777.	11.4	32
52	Uncoupling Protein 3 (UCP3) Modulates the Activity of Sarco/Endoplasmic Reticulum Ca2+-ATPase (SERCA) by Decreasing Mitochondrial ATP Production. Journal of Biological Chemistry, 2011, 286, 32533-32541.	3.4	69
53	Dynamic Regulation of the Mitochondrial Proton Gradient during Cytosolic Calcium Elevations. Journal of Biological Chemistry, 2011, 286, 11672-11684.	3.4	263
54	Glutamate Transport Decreases Mitochondrial pH and Modulates Oxidative Metabolism in Astrocytes. Journal of Neuroscience, 2011, 31, 3550-3559.	3.6	93

#	Article	IF	CITATIONS
55	Local Cytosolic Ca2+ Elevations Are Required for Stromal Interaction Molecule 1 (STIM1) De-oligomerization and Termination of Store-operated Ca2+ Entry. Journal of Biological Chemistry, 2011, 286, 36448-36459.	3.4	37
56	Calcium uptake mechanisms of mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 907-912.	1.0	257
57	SLP-2 negatively modulates mitochondrial sodium–calcium exchange. Cell Calcium, 2010, 47, 11-18.	2.4	35
58	Physiological roles of voltage-gated proton channels in leukocytes. Journal of Physiology, 2010, 588, 4659-4665.	2.9	30
59	VSOP/Hv1 proton channels sustain calcium entry, neutrophil migration, and superoxide production by limiting cell depolarization and acidification. Journal of Experimental Medicine, 2010, 207, 129-139.	8.5	166
60	The role of calcium signaling in phagocytosis. Journal of Leukocyte Biology, 2010, 88, 57-68.	3.3	211
61	STIM1-induced precortical and cortical subdomains of the endoplasmic reticulum. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19358-19362.	7.1	190
62	STIM1- and Orai1-dependent Store-operated Calcium Entry Regulates Human Myoblast Differentiation. Journal of Biological Chemistry, 2009, 284, 5370-5380.	3.4	132
63	A Revolving Door for Calcium. Science, 2009, 326, 57-58.	12.6	10
64	Mitochondrial Regulation of Sarcoplasmic Reticulum Ca ²⁺ Content in Vascular Smooth Muscle Cells. Circulation Research, 2009, 104, 104-112.	4.5	65
65	Regulation of plasma membrane calcium fluxes by mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 1383-1394.	1.0	107
66	Local and global calcium signals associated with the opening of neuronal α7 nicotinic acetylcholine receptors. Cell Calcium, 2009, 45, 198-207.	2.4	29
67	Matrix alkalinization: a novel mitochondrial signal for sustained pancreatic β-cell activation. EMBO Journal, 2009, 28, 417-428.	7.8	66
68	Reactive oxygen species are NOXious for neurons. Nature Neuroscience, 2009, 12, 819-820.	14.8	33
69	Amiloride derivatives induce apoptosis by depleting ER Ca ²⁺ stores in vascular endothelial cells. British Journal of Pharmacology, 2009, 156, 1296-1304.	5.4	30
70	VSOP/Hv1 proton channels sustain calcium entry, neutrophil migration, and superoxide production by limiting cell depolarization and acidification. Journal of Cell Biology, 2009, 187, i16-i16.	5.2	0
71	Evidence for a receptor-activated Ca2+ entry pathway independent from Ca2+ store depletion in endothelial cells. Cell Calcium, 2008, 43, 83-94.	2.4	23
72	Selective Actions of Mitochondrial Fission/Fusion Genes on Metabolism-Secretion Coupling in Insulin-releasing Cells. Journal of Biological Chemistry, 2008, 283, 33347-33356.	3.4	111

#	Article	IF	CITATIONS
73	Dual Effect of Cell-Cell Contact Disruption on Cytosolic Calcium and Insulin Secretion. Endocrinology, 2008, 149, 2494-2505.	2.8	84
74	STIM1 Knockdown Reveals That Store-operated Ca2+ Channels Located Close to Sarco/Endoplasmic Ca2+ ATPases (SERCA) Pumps Silently Refill the Endoplasmic Reticulum. Journal of Biological Chemistry, 2007, 282, 11456-11464.	3.4	128
75	NOX5 is expressed at the plasma membrane and generates superoxide in response to protein kinase C activation. Biochimie, 2007, 89, 1159-1167.	2.6	132
76	Role of nucleotides and phosphoinositides in the stability of electron and proton currents associated with the phagocytic NADPH oxidase. Biochemical Journal, 2006, 400, 431-438.	3.7	7
77	GABA Regulates Dendritic Growth by Stabilizing Lamellipodia in Newly Generated Interneurons of the Olfactory Bulb. Journal of Neuroscience, 2006, 26, 12956-12966.	3.6	81
78	Voltage- and NADPH-dependence of electron currents generated by the phagocytic NADPH oxidase. Biochemical Journal, 2005, 388, 485-491.	3.7	39
79	Endosome-to-cytosol transport of viral nucleocapsids. Nature Cell Biology, 2005, 7, 653-664.	10.3	290
80	HIV-1 Trafficking to the Dendritic Cell-T-Cell Infectious Synapse Uses a Pathway of Tetraspanin Sorting to the Immunological Synapse. Traffic, 2005, 6, 488-501.	2.7	219
81	Calcium measurements in organelles with Ca2+-sensitive fluorescent proteins. Cell Calcium, 2005, 38, 213-222.	2.4	45
82	Electron and proton transport by NADPH oxidases. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 2315-2325.	4.0	57
83	Subplasmalemmal Mitochondria Modulate the Activity of Plasma Membrane Ca2+-ATPases. Journal of Biological Chemistry, 2005, 280, 43198-43208.	3.4	67
84	Gelsolin mediates calcium-dependent disassembly of Listeria actin tails. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1921-1926.	7.1	32
85	Ca2+ Homeostasis during Mitochondrial Fragmentation and Perinuclear Clustering Induced by hFis1. Journal of Biological Chemistry, 2004, 279, 22704-22714.	3.4	183
86	ARF1 Regulates Nef-Induced CD4 Degradation. Current Biology, 2004, 14, 1056-1064.	3.9	45
87	Measurements of the free luminal ER Ca 2+ concentration with targeted "cameleon―fluorescent proteins. Cell Calcium, 2003, 34, 109-119.	2.4	113
88	Apoptosisthe Calcium Connection. Science, 2003, 300, 65-67.	12.6	304
89	A tyrosine-based sorting signal is involved in connexin43 stability and gap junction turnover. Journal of Cell Science, 2003, 116, 2213-2222.	2.0	78
90	Interactions between Electron and Proton Currents in Excised Patches from Human Eosinophils. Journal of General Physiology, 2003, 122, 713-726.	1.9	26

#	Article	IF	CITATIONS
91	Sustained Ca2+ Transfer across Mitochondria Is Essential for Mitochondrial Ca2+ Buffering, Store-operated Ca2+ Entry, and Ca2+ Store Refilling. Journal of Biological Chemistry, 2003, 278, 44769-44779.	3.4	170
92	ER Calcium and ER Chaperones: New Players in Apoptosis?. Molecular Biology Intelligence Unit, 2003, , 133-141.	0.2	3
93	NOX Family NADPH Oxidases. Journal of General Physiology, 2002, 120, 781-786.	1.9	27
94	Calreticulin Differentially Modulates Calcium Uptake and Release in the Endoplasmic Reticulum and Mitochondria. Journal of Biological Chemistry, 2002, 277, 46696-46705.	3.4	141
95	The Dendritic Cell-Specific Adhesion Receptor DC-SIGN Internalizes Antigen for Presentation to T Cells. Journal of Immunology, 2002, 168, 2118-2126.	0.8	568
96	Measurement of Intracellular Ca2+ Concentration. Methods in Cell Biology, 2002, 70, 453-474.	1.1	5
97	Molecular and functional characterization of a new X-linked chronic granulomatous disease variant (X91+) case with a double missense mutation in the cytosolic gp91phox C-terminal tail. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2002, 1586, 316-330.	3.8	31
98	pH Homeostasis of Cellular Organelles. Physiology, 2002, 17, 1-5.	3.1	153
99	Subplasmalemmal endoplasmic reticulum controls KCachannel activity upon stimulation with a moderate histamine concentration in a human umbilical vein endothelial cell line. Journal of Physiology, 2002, 540, 73-84.	2.9	37
100	Heme Histidine Ligands within gp91 Modulate Proton Conduction by the Phagocyte NADPH Oxidase. Journal of Biological Chemistry, 2001, 276, 30277-30284.	3.4	55
101	A Ca2+-activated NADPH Oxidase in Testis, Spleen, and Lymph Nodes. Journal of Biological Chemistry, 2001, 276, 37594-37601.	3.4	526
102	Functional specialization of calreticulin domains. Journal of Cell Biology, 2001, 154, 961-972.	5.2	265
103	Mitochondria Recycle Ca2+ to the Endoplasmic Reticulum and Prevent the Depletion of Neighboring Endoplasmic Reticulum Regions. Journal of Biological Chemistry, 2001, 276, 29430-29439.	3.4	240
104	Angiotensin II Promotes Selective Uptake of High Density Lipoprotein Cholesterol Esters in Bovine Adrenal Glomerulosa and Human Adrenocortical Carcinoma Cells Through Induction of Scavenger Receptor Class B Type I. Endocrinology, 2001, 142, 4540-4549.	2.8	17
105	HIV-1 Nef protein binds to the cellular protein PACS-1 to downregulate class I major histocompatibility complexes. Nature Cell Biology, 2000, 2, 163-167.	10.3	358
106	Bcl-2 decreases the free Ca2+ concentration within the endoplasmic reticulum. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 5723-5728.	7.1	402
107	The Recycling Endosome of Madin-Darby Canine Kidney Cells Is a Mildly Acidic Compartment Rich in Raft Components. Molecular Biology of the Cell, 2000, 11, 2775-2791.	2.1	287
108	A Mammalian H ⁺ Channel Generated Through Alternative Splicing of the NADPH Oxidase Homolog <i>NOH-1</i> . Science, 2000, 287, 138-142.	12.6	276

#	Article	IF	CITATIONS
109	ATP dependence is not an intrinsic property of Na+/H+exchanger NHE1: requirement for an ancillary factor. American Journal of Physiology - Cell Physiology, 1999, 276, C1303-C1311.	4.6	35
110	A Novel H+ Conductance in Eosinophils. Journal of Experimental Medicine, 1999, 190, 183-194.	8.5	122
111	Proline-rich Motifs of the Na+/H+Exchanger 2 Isoform. Journal of Biological Chemistry, 1999, 274, 10481-10488.	3.4	25
112	Alternative Mechanisms of Vacuolar Acidification in H+-ATPase-deficient Yeast. Journal of Biological Chemistry, 1999, 274, 37270-37279.	3.4	90
113	Angiotensin II Negatively Modulates L-type Calcium Channels through a Pertussis Toxin-sensitive G Protein in Adrenal Glomerulosa Cells. Journal of Biological Chemistry, 1999, 274, 19943-19948.	3.4	31
114	Nef-Induced CD4 Degradation. Cell, 1999, 97, 63-73.	28.9	271
115	Electron currents generated by the human phagocyte NADPH oxidase. Nature, 1998, 392, 734-737.	27.8	184
116	Mechanism of Acidification of the trans-Golgi Network (TGN). Journal of Biological Chemistry, 1998, 273, 2044-2051.	3.4	179
117	ATP Dependence of Na+/H+ Exchange. Journal of General Physiology, 1997, 109, 117-128.	1.9	61
118	Caffeine and Halothane Sensitivity of Intracellular Ca2+ Release Is Altered by 15 Calcium Release Channel (Ryanodine Receptor) Mutations Associated with Malignant Hyperthermia and/or Central Core Disease. Journal of Biological Chemistry, 1997, 272, 26332-26339.	3.4	225
119	Regulation of Phagosomal Acidification. Journal of Biological Chemistry, 1997, 272, 29810-29820.	3.4	139
120	Calreticulin is essential for integrin-mediated calcium signalling and cell adhesion. Nature, 1997, 386, 843-847.	27.8	382
121	Chapter 20 Intracellular pH: Measurement, manipulation and physiological regulation. Handbook of Biological Physics, 1996, 2, 447-472.	0.8	2
122	Intracellular pH regulation during spreading of human neutrophils Journal of Cell Biology, 1996, 133, 1391-1402.	5.2	127
123	Ion transport and the function of phagocytic cells. Current Opinion in Hematology, 1995, 2, 89-95.	2.5	5
124	The mammalian Na+/H+ antiporters NHE-1, NHE-2, and NHE-3 are electroneutral and voltage independent, but can couple to an H+ conductance Journal of General Physiology, 1995, 106, 85-111.	1.9	53
125	Highly cooperative Ca2+ elevations in response to Ins(1,4,5)P3 microperfusion through a patch-clamp pipette. Biophysical Journal, 1995, 69, 2378-2391.	0.5	10
126	Characterization of receptor-mediated and store-regulated Ca2+ influx in human neutrophils. Biochemical Journal, 1994, 297, 595-601.	3.7	88

#	Article	IF	CITATIONS
127	[26] Combination of microfluorimetric monitoring of cytosolic calcium and pH with patch clamp electrophysiological recordings in neutrophil granulocytes. Methods in Enzymology, 1994, 238, 308-320.	1.0	4
128	Na+/H+ Antiport: Modulation by Atp and Role in Cell Volume Regulation. Journal of Experimental Biology, 1994, 196, 389-404.	1.7	86
129	Na+/H+ antiport: modulation by ATP and role in cell volume regulation. Journal of Experimental Biology, 1994, 196, 389-404.	1.7	72
130	Pituitary adenylate cyclase-activating polypeptide increases [Ca2]i in rat gonadotrophs through an inositol trisphosphate-dependent mechanism. Journal of Biological Chemistry, 1994, 269, 5680-6.	3.4	53
131	Highly co-operative Ca2+ activation of intermediate-conductance K+ channels in granulocytes from a human cell line Journal of Physiology, 1993, 472, 373-390.	2.9	22
132	Proton channels, plasma membrane potential, and respiratory burst in human neutrophils. European Journal of Haematology, 1993, 51, 309-312.	2.2	27
133	Proton currents in human granulocytes: regulation by membrane potential and intracellular pH. Journal of Physiology, 1993, 466, 329-44.	2.9	92
134	Spontaneous Intracellular Calcium Oscillations and Gs? Subunit Expression are Inversely Correlated with Secretory Granule Content in Pituitary Cells. Journal of Neuroendocrinology, 1992, 4, 473-481.	2.6	4
135	Regulation of Ca2+ influx in myeloid cells. Role of plasma membrane potential, inositol phosphates, cytosolic free [Ca2+], and filling state of intracellular Ca2+ stores Journal of Clinical Investigation, 1992, 90, 830-839.	8.2	41
136	Cyclopiazonic acid depletes intracellular Ca2+ stores and activates an influx pathway for divalent cations in HL-60 cells. Journal of Biological Chemistry, 1992, 267, 2318-24.	3.4	223