

# Maud Frieden

## List of Publications by Year in descending order

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42  
papers

2,675  
citations

186265

28  
h-index

276875

41  
g-index

46  
all docs

46  
docs citations

46  
times ranked

3568  
citing authors

#	ARTICLE	IF	CITATIONS
1	mTOR complex 2-Akt signaling at mitochondria-associated endoplasmic reticulum membranes (MAM) regulates mitochondrial physiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12526-12534.	7.1	435
2	Ca <sup>2+</sup> Homeostasis during Mitochondrial Fragmentation and Perinuclear Clustering Induced by hFis1. <i>Journal of Biological Chemistry</i> , 2004, 279, 22704-22714.	3.4	183
3	Sustained Ca <sup>2+</sup> Transfer across Mitochondria Is Essential for Mitochondrial Ca <sup>2+</sup> Buffering, Store-operated Ca <sup>2+</sup> Entry, and Ca <sup>2+</sup> Store Refilling. <i>Journal of Biological Chemistry</i> , 2003, 278, 44769-44779.	3.4	170
4	Calreticulin Differentially Modulates Calcium Uptake and Release in the Endoplasmic Reticulum and Mitochondria. <i>Journal of Biological Chemistry</i> , 2002, 277, 46696-46705.	3.4	141
5	The Role of Mitochondria for Ca <sup>2+</sup> Refilling of the Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2005, 280, 12114-12122.	3.4	139
6	STIM1 Knockdown Reveals That Store-operated Ca <sup>2+</sup> Channels Located Close to Sarco/Endoplasmic Ca <sup>2+</sup> ATPases (SERCA) Pumps Silently Refill the Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2007, 282, 11456-11464.	3.4	128
7	Mitochondria and Ca <sup>2+</sup> signaling: old guests, new functions. <i>Pflügers Archiv European Journal of Physiology</i> , 2007, 455, 375-396.	2.8	127
8	Measurements of the free luminal ER Ca <sup>2+</sup> concentration with targeted "cameleon" fluorescent proteins. <i>Cell Calcium</i> , 2003, 34, 109-119.	2.4	113
9	Regulation of plasma membrane calcium fluxes by mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 1383-1394.	1.0	107
10	Transient Receptor Potential Canonical Channels Are Required for in Vitro Endothelial Tube Formation. <i>Journal of Biological Chemistry</i> , 2012, 287, 5917-5927.	3.4	85
11	Mitochondria Efficiently Buffer Subplasmalemmal Ca <sup>2+</sup> Elevation during Agonist Stimulation. <i>Journal of Biological Chemistry</i> , 2003, 278, 10807-10815.	3.4	84
12	Histamine-induced Ca <sup>2+</sup> oscillations in a human endothelial cell line depend on transmembrane ion flux, ryanodine receptors and endoplasmic reticulum Ca <sup>2+</sup> -ATPase. <i>Journal of Physiology</i> , 2000, 524, 701-713.	2.9	73
13	Subplasmalemmal Mitochondria Modulate the Activity of Plasma Membrane Ca <sup>2+</sup> -ATPases. <i>Journal of Biological Chemistry</i> , 2005, 280, 43198-43208.	3.4	67
14	Thapsigargin activates Ca <sup>2+</sup> entry both by store-dependent, STIM1/Orai1-mediated, and store-independent, TRPC3/PLC/PKC-mediated pathways in human endothelial cells. <i>Cell Calcium</i> , 2011, 49, 115-127.	2.4	60
15	Remodelling of the endoplasmic reticulum during store-operated calcium entry. <i>Biology of the Cell</i> , 2011, 103, 365-380.	2.0	58
16	An intercellular regenerative calcium wave in porcine coronary artery endothelial cells in primary culture. <i>Journal of Physiology</i> , 1998, 513, 103-116.	2.9	52
17	Dysfunction of mitochondria Ca <sup>2+</sup> uptake in cystic fibrosis airway epithelial cells. <i>Mitochondrion</i> , 2009, 9, 232-241.	3.4	50
18	During post-natal human myogenesis, normal myotube size requires TRPC1 and TRPC4 mediated Ca <sup>2+</sup> entry. <i>Journal of Cell Science</i> , 2013, 126, 2525-33.	2.0	44

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19	Nicotine mediates oxidative stress and apoptosis through cross talk between NOX1 and Bcl-2 in lung epithelial cells. <i>Free Radical Biology and Medicine</i> , 2014, 76, 173-184.	2.9	44
20	STIM1L traps and gates Orai1 channels without remodeling the cortical ER. <i>Journal of Cell Science</i> , 2015, 128, 1568-79.	2.0	44
21	Twenty Years of Calcium Imaging: Cell Physiology to Dye For. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2005, 5, 112-127.	3.4	42
22	TRPC1 and TRPC4 channels functionally interact with STIM1L to promote myogenesis and maintain fast repetitive Ca <sup>2+</sup> release in human myotubes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017, 1864, 806-813.	4.1	41
23	Subplasmalemmal endoplasmic reticulum controls KCa channel activity upon stimulation with a moderate histamine concentration in a human umbilical vein endothelial cell line. <i>Journal of Physiology</i> , 2002, 540, 73-84.	2.9	37
24	Local Cytosolic Ca <sup>2+</sup> Elevations Are Required for Stromal Interaction Molecule 1 (STIM1) De-oligomerization and Termination of Store-operated Ca <sup>2+</sup> Entry. <i>Journal of Biological Chemistry</i> , 2011, 286, 36448-36459.	3.4	37
25	Airway Epithelial Cell Integrity Protects from Cytotoxicity of <i>Pseudomonas aeruginosa</i> Quorum-Sensing Signals. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015, 53, 265-275.	2.9	36
26	SLP-2 negatively modulates mitochondrial sodium-calcium exchange. <i>Cell Calcium</i> , 2010, 47, 11-18.	2.4	35
27	Subplasmalemmal ryanodine-sensitive Ca <sup>2+</sup> release contributes to Ca <sup>2+</sup> -dependent K <sup>+</sup> channel activation in a human umbilical vein endothelial cell line. <i>Journal of Physiology</i> , 2000, 524, 715-724.	2.9	30
28	Activation of Transient Receptor Potential Canonical 3 (TRPC3)-mediated Ca <sup>2+</sup> Entry by A1 Adenosine Receptor in Cardiomyocytes Disturbs Atrioventricular Conduction. <i>Journal of Biological Chemistry</i> , 2012, 287, 26688-26701.	3.4	28
29	Inositol 1,4,5 trisphosphate receptor 1 is a key player of human myoblast differentiation. <i>Cell Calcium</i> , 2014, 56, 513-521.	2.4	28
30	Tissue-specific expression of human lipoprotein lipase in the vascular system affects vascular reactivity in transgenic mice. <i>British Journal of Pharmacology</i> , 2002, 135, 143-154.	5.4	25
31	S-acylation by ZDHHC20 targets ORAI1 channels to lipid rafts for efficient Ca <sup>2+</sup> signaling by Jurkat T cell receptors at the immune synapse. <i>ELife</i> , 2021, 10, .	6.0	23
32	SERCA and PMCA pumps contribute to the deregulation of Ca <sup>2+</sup> homeostasis in human CF epithelial cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 892-903.	4.1	21
33	Electrophysiological characterization of store-operated and agonist-induced Ca <sup>2+</sup> entry pathways in endothelial cells. <i>Pflugers Archiv European Journal of Physiology</i> , 2010, 460, 109-120.	2.8	16
34	STIM1 long and STIM1 gate differently TRPC1 during store-operated calcium entry. <i>Cell Calcium</i> , 2020, 86, 102134.	2.4	15
35	Neurological and Motor Disorders: TRPC in the Skeletal Muscle. <i>Advances in Experimental Medicine and Biology</i> , 2017, 993, 557-575.	1.6	12
36	Calumenin contributes to ER-Ca <sup>2+</sup> homeostasis in bronchial epithelial cells expressing WT and F508del mutated CFTR and to F508del-CFTR retention. <i>Cell Calcium</i> , 2017, 62, 47-59.	2.4	11

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37	Distinct roles of NFATc1 and NFATc4 in human primary myoblast differentiation and in reserve cell maintenance. <i>Journal of Cell Science</i> , 2017, 130, 3083-3093.	2.0	9
38	Nanopattern surface improves cultured human myotube maturation. <i>Skeletal Muscle</i> , 2021, 11, 12.	4.2	9
39	Store-Operated Calcium Entry in Skeletal Muscle: What Makes It Different?. <i>Cells</i> , 2021, 10, 2356.	4.1	7
40	Isolation of Human Myoblasts, Assessment of Myogenic Differentiation, and Store-operated Calcium Entry Measurement. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	5
41	The p.E152K-STIM1 mutation deregulates Ca <sup>2+</sup> signaling contributing to chronic pancreatitis. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	4
42	Activation and Migration of Human Skeletal Muscle Stem Cells In Vitro Differently Rely on Calcium Signals. <i>Cells</i> , 2022, 11, 1689.	4.1	0