Diego De Stefani

List of Publications by Year in Descending Order

55 papers	8,255 citations	32 h-index	69 g-index
69 ext. papers	9,749 ext. citations	10.4 avg, IF	6.03 L-index

#	Paper	IF	Citations
55	A Novel Loss of Function Melanocortin-4-Receptor Mutation (MC4R-F313Sfs*29) in Morbid Obesity. *Journal of Clinical Endocrinology and Metabolism*, **2021**, 106, 736-749	5.6	2
54	Mitochondrial K channels and their implications for disease mechanisms. *Pharmacology & Therapeutics*, **2021**, 227, 107874	13.9	7
53	Astroglial ER-mitochondria calcium transfer mediates endocannabinoid-dependent synaptic integration.. *Cell Reports*, **2021**, 37, 110133	10.6	5
52	Mitochondrial ion channels as targets for cardioprotection. *Journal of Cellular and Molecular Medicine*, **2020**, 24, 7102-7114	5.6	27
51	Polyphenols as Caloric Restriction Mimetics Regulating Mitochondrial Biogenesis and Mitophagy. *Trends in Endocrinology and Metabolism*, **2020**, 31, 536-550	8.8	31
50	A High-Throughput Screening Identifies MICU1 Targeting Compounds. *Cell Reports*, **2020**, 30, 2321-2331.e6	8.66	25
49	Biosensors for detection of calcium. *Methods in Cell Biology*, **2020**, 155, 337-368	1.8	5
48	A new target for an old DUB: UCH-L1 regulates mitofusin-2 levels, altering mitochondrial morphology, function and calcium uptake. *Redox Biology*, **2020**, 37, 101676	11.3	3
47	Altered MICOS Morphology and Mitochondrial Ion Homeostasis Contribute to Poly(GR) Toxicity Associated with C9-ALS/FTD. *Cell Reports*, **2020**, 32, 107989	10.6	12
46	Modulation of TRPV-1 by prostaglandin-E and bradykinin changes cough sensitivity and autonomic regulation of cardiac rhythm in healthy subjects. *Scientific Reports*, **2020**, 10, 15163	4.9	2
45	Identification of an ATP-sensitive potassium channel in mitochondria. *Nature*, **2019**, 572, 609-613	50.4	94
44	DRP1-mediated mitochondrial shape controls calcium homeostasis and muscle mass. *Nature Communications*, **2019**, 10, 2576	17.4	158
43	MICU3 is a tissue-specific enhancer of mitochondrial calcium uptake. *Cell Death and Differentiation*, **2019**, 26, 179-195	12.7	97
42	Overexpression of Mitochondrial Calcium Uniporter Causes Neuronal Death. *Oxidative Medicine and Cellular Longevity*, **2019**, 2019, 1681254	6.7	28
41	MFN2 mutations in Charcot-Marie-Tooth disease alter mitochondria-associated ER membrane function but do not impair bioenergetics. *Human Molecular Genetics*, **2019**, 28, 1782-1800	5.6	51
40	Loss of mitochondrial calcium uniporter rewires skeletal muscle metabolism and substrate preference. *Cell Death and Differentiation*, **2019**, 26, 362-381	12.7	28
39	The MCU complex in cell death. *Cell Calcium*, **2018**, 69, 73-80	4	51

38	Mitochondrial Calcium Increase Induced by RyR1 and IP3R Channel Activation After Membrane Depolarization Regulates Skeletal Muscle Metabolism. *Frontiers in Physiology*, **2018**, 9, 791	4.6	31
37	Tau localises within mitochondrial sub-compartments and its caspase cleavage affects ER-mitochondria interactions and cellular Ca handling. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2018**, 1864, 3247-3256	6.9	58
36	Loss of EMILIN-1 Enhances Arteriolar Myogenic Tone Through TGF-β (Transforming Growth Factor-β)-Dependent Transactivation of EGFR (Epidermal Growth Factor Receptor) and Is Relevant for Hypertension in Mice and Humans. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 2484-2497	9.4	15
35	Molecular Players of Mitochondrial Calcium Signaling: Similarities and Different Aspects in Various Organisms **2017**, 41-65		
34	Mitochondrial Calcium Handling in Physiology and Disease. *Advances in Experimental Medicine and Biology*, **2017**, 982, 25-47	3.6	47
33	Reply to Filadi et al.: Does Mitofusin 2 tether or separate endoplasmic reticulum and mitochondria?. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E2268-E2269	11.5	19
32	Content of mitochondrial calcium uniporter (MCU) in cardiomyocytes is regulated by microRNA-1 in physiologic and pathologic hypertrophy. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E9006-E9015	11.5	55
31	LETM1-Mediated K and Na Homeostasis Regulates Mitochondrial Ca Efflux. *Frontiers in Physiology*, **2017**, 8, 839	4.6	38
30	Reduced mitochondrial Ca(2+) transients stimulate autophagy in human fibroblasts carrying the 13514A>G mutation of the ND5 subunit of NADH dehydrogenase. *Cell Death and Differentiation*, **2016**, 23, 231-41	12.7	39
29	The m-AAA Protease Associated with Neurodegeneration Limits MCU Activity in Mitochondria. *Molecular Cell*, **2016**, 64, 148-162	17.6	100
28	Enjoy the Trip: Calcium in Mitochondria Back and Forth. *Annual Review of Biochemistry*, **2016**, 85, 161-92	29.1	254
27	Electrophysiological characterization of an ATP-sensitive mitochondrial potassium channel. *Biochimica Et Biophysica Acta - Bioenergetics*, **2016**, 1857, e62-e63	4.6	
26	Critical reappraisal confirms that Mitofusin 2 is an endoplasmic reticulum-mitochondria tether. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 11249-11254	11.5	286
25	Lysosomal calcium signalling regulates autophagy through calcineurin and TFEB. *Nature Cell Biology*, **2015**, 17, 288-99	23.4	716
24	Structure and function of the mitochondrial calcium uniporter complex. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2015**, 1853, 2006-11	4.9	122
23	The mitochondrial calcium uniporter controls skeletal muscle trophism in vivo. *Cell Reports*, **2015**, 10, 1269-79	10.6	122
22	Breast Tissue Engineering. *Plastic and Reconstructive Surgery*, **2015**, 136, 35	2.7	3
21	Loss-of-function mutations in MICU1 cause a brain and muscle disorder linked to primary alterations in mitochondrial calcium signaling. *Nature Genetics*, **2014**, 46, 188-93	36.3	242

20	Molecular control of mitochondrial calcium uptake. *Biochemical and Biophysical Research Communications*, **2014**, 449, 373-6	3.4	27
19	Human white adipocytes express the cold receptor TRPM8 which activation induces UCP1 expression, mitochondrial activation and heat production. *Molecular and Cellular Endocrinology*, **2014**, 383, 137-46	4.4	74
18	MICU1 and MICU2 finely tune the mitochondrial Ca2+ uniporter by exerting opposite effects on MCU activity. *Molecular Cell*, **2014**, 53, 726-37	17.6	351
17	Measuring baseline Ca(2+) levels in subcellular compartments using genetically engineered fluorescent indicators. *Methods in Enzymology*, **2014**, 543, 47-72	1.7	15
16	The mitochondrial calcium uniporter is a multimer that can include a dominant-negative pore-forming subunit. *EMBO Journal*, **2013**, 32, 2362-76	13	326
15	The mitochondrial calcium uniporter (MCU): molecular identity and physiological roles. *Journal of Biological Chemistry*, **2013**, 288, 10750-8	5.4	107
14	VDAC1 selectively transfers apoptotic Ca2+ signals to mitochondria. *Cell Death and Differentiation*, **2012**, 19, 267-73	12.7	218
13	Mitochondria as sensors and regulators of calcium signalling. *Nature Reviews Molecular Cell Biology*, **2012**, 13, 566-78	48.7	1063
12	The mitochondrial Ca(2+) uniporter. *Cell Calcium*, **2012**, 52, 16-21	4	51
11	Respiratory dysfunction by AFG3L2 deficiency causes decreased mitochondrial calcium uptake via organellar network fragmentation. *Human Molecular Genetics*, **2012**, 21, 3858-70	5.6	44
10	Mitochondrial Ca2+ uptake contributes to buffering cytoplasmic Ca2+ peaks in cardiomyocytes. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 12986-91	11.5	150
9	A forty-kilodalton protein of the inner membrane is the mitochondrial calcium uniporter. *Nature*, **2011**, 476, 336-40	50.4	1318
8	Mitochondria, calcium signaling and cell death by apoptosis and autophagy. *Biochimica Et Biophysica Acta - Bioenergetics*, **2010**, 1797, 4	4.6	2
7	Ca(2+) transfer from the ER to mitochondria: when, how and why. *Biochimica Et Biophysica Acta - Bioenergetics*, **2009**, 1787, 1342-51	4.6	342
6	Structural and functional link between the mitochondrial network and the endoplasmic reticulum. *International Journal of Biochemistry and Cell Biology*, **2009**, 41, 1817-27	5.6	294
5	Loss-of-function mutation of the GPR40 gene associates with abnormal stimulated insulin secretion by acting on intracellular calcium mobilization. *Journal of Clinical Endocrinology and Metabolism*, **2008**, 93, 3541-50	5.6	52
4	Mitochondria in Cell Life and Death **2007**, 145-158		
3	Chaperone-mediated coupling of endoplasmic reticulum and mitochondrial Ca2+ channels. *Journal of Cell Biology*, **2006**, 175, 901-11	7.3	888

2	Mitochondrial dynamics and Ca2+ signaling. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2006**, 1763, 442-9	4.9	146
1	Endoplasmic Reticulum/Mitochondria Calcium Cross-Talk. *Novartis Foundation Symposium*,122-139		12