

# Diego De Stefani

## List of Publications by Citations

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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 forty-kilodalton protein of the inner membrane is the mitochondrial calcium uniporter. <i>Nature</i> , <b>2011</b> , 476, 336-40	50.4	1318
54	Mitochondria as sensors and regulators of calcium signalling. <i>Nature Reviews Molecular Cell Biology</i> , <b>2012</b> , 13, 566-78	48.7	1063
53	Chaperone-mediated coupling of endoplasmic reticulum and mitochondrial Ca <sup>2+</sup> channels. <i>Journal of Cell Biology</i> , <b>2006</b> , 175, 901-11	7.3	888
52	Lysosomal calcium signalling regulates autophagy through calcineurin and TFEB. <i>Nature Cell Biology</i> , <b>2015</b> , 17, 288-99	23.4	716
51	MICU1 and MICU2 finely tune the mitochondrial Ca <sup>2+</sup> uniporter by exerting opposite effects on MCU activity. <i>Molecular Cell</i> , <b>2014</b> , 53, 726-37	17.6	351
50	Ca(2+) transfer from the ER to mitochondria: when, how and why. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2009</b> , 1787, 1342-51	4.6	342
49	The mitochondrial calcium uniporter is a multimer that can include a dominant-negative pore-forming subunit. <i>EMBO Journal</i> , <b>2013</b> , 32, 2362-76	13	326
48	Structural and functional link between the mitochondrial network and the endoplasmic reticulum. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2009</b> , 41, 1817-27	5.6	294
47	Critical reappraisal confirms that Mitofusin 2 is an endoplasmic reticulum-mitochondria tether. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 11249-11254	11.5	286
46	Enjoy the Trip: Calcium in Mitochondria Back and Forth. <i>Annual Review of Biochemistry</i> , <b>2016</b> , 85, 161-92	29.1	254
45	Loss-of-function mutations in MICU1 cause a brain and muscle disorder linked to primary alterations in mitochondrial calcium signaling. <i>Nature Genetics</i> , <b>2014</b> , 46, 188-93	36.3	242
44	VDAC1 selectively transfers apoptotic Ca <sup>2+</sup> signals to mitochondria. <i>Cell Death and Differentiation</i> , <b>2012</b> , 19, 267-73	12.7	218
43	DRP1-mediated mitochondrial shape controls calcium homeostasis and muscle mass. <i>Nature Communications</i> , <b>2019</b> , 10, 2576	17.4	158
42	Mitochondrial Ca <sup>2+</sup> uptake contributes to buffering cytoplasmic Ca <sup>2+</sup> peaks in cardiomyocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 12986-91	11.5	150
41	Mitochondrial dynamics and Ca <sup>2+</sup> signaling. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2006</b> , 1763, 442-9	4.9	146
40	Structure and function of the mitochondrial calcium uniporter complex. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2015</b> , 1853, 2006-11	4.9	122
39	The mitochondrial calcium uniporter controls skeletal muscle trophism in vivo. <i>Cell Reports</i> , <b>2015</b> , 10, 1269-79	10.6	122

38	The mitochondrial calcium uniporter (MCU): molecular identity and physiological roles. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 10750-8	5.4	107
37	The m-AAA Protease Associated with Neurodegeneration Limits MCU Activity in Mitochondria. <i>Molecular Cell</i> , <b>2016</b> , 64, 148-162	17.6	100
36	MICU3 is a tissue-specific enhancer of mitochondrial calcium uptake. <i>Cell Death and Differentiation</i> , <b>2019</b> , 26, 179-195	12.7	97
35	Identification of an ATP-sensitive potassium channel in mitochondria. <i>Nature</i> , <b>2019</b> , 572, 609-613	50.4	94
34	Human white adipocytes express the cold receptor TRPM8 which activation induces UCP1 expression, mitochondrial activation and heat production. <i>Molecular and Cellular Endocrinology</i> , <b>2014</b> , 383, 137-46	4.4	74
33	Tau localises within mitochondrial sub-compartments and its caspase cleavage affects ER-mitochondria interactions and cellular Ca handling. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2018</b> , 1864, 3247-3256	6.9	58
32	Content of mitochondrial calcium uniporter (MCU) in cardiomyocytes is regulated by microRNA-1 in physiologic and pathologic hypertrophy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E9006-E9015	11.5	55
31	Loss-of-function mutation of the GPR40 gene associates with abnormal stimulated insulin secretion by acting on intracellular calcium mobilization. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2008</b> , 93, 3541-50	5.6	52
30	The MCU complex in cell death. <i>Cell Calcium</i> , <b>2018</b> , 69, 73-80	4	51
29	The mitochondrial Ca(2+) uniporter. <i>Cell Calcium</i> , <b>2012</b> , 52, 16-21	4	51
28	MFN2 mutations in Charcot-Marie-Tooth disease alter mitochondria-associated ER membrane function but do not impair bioenergetics. <i>Human Molecular Genetics</i> , <b>2019</b> , 28, 1782-1800	5.6	51
27	Mitochondrial Calcium Handling in Physiology and Disease. <i>Advances in Experimental Medicine and Biology</i> , <b>2017</b> , 982, 25-47	3.6	47
26	Respiratory dysfunction by AFG3L2 deficiency causes decreased mitochondrial calcium uptake via organellar network fragmentation. <i>Human Molecular Genetics</i> , <b>2012</b> , 21, 3858-70	5.6	44
25	Reduced mitochondrial Ca(2+) transients stimulate autophagy in human fibroblasts carrying the 13514A>G mutation of the ND5 subunit of NADH dehydrogenase. <i>Cell Death and Differentiation</i> , <b>2016</b> , 23, 231-41	12.7	39
24	LETM1-Mediated K and Na Homeostasis Regulates Mitochondrial Ca Efflux. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 839	4.6	38
23	Polyphenols as Caloric Restriction Mimetics Regulating Mitochondrial Biogenesis and Mitophagy. <i>Trends in Endocrinology and Metabolism</i> , <b>2020</b> , 31, 536-550	8.8	31
22	Mitochondrial Calcium Increase Induced by RyR1 and IP3R Channel Activation After Membrane Depolarization Regulates Skeletal Muscle Metabolism. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 791	4.6	31
21	Overexpression of Mitochondrial Calcium Uniporter Causes Neuronal Death. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2019</b> , 2019, 1681254	6.7	28

20	Loss of mitochondrial calcium uniporter rewires skeletal muscle metabolism and substrate preference. <i>Cell Death and Differentiation</i> , <b>2019</b> , 26, 362-381	12.7	28
19	Mitochondrial ion channels as targets for cardioprotection. <i>Journal of Cellular and Molecular Medicine</i> , <b>2020</b> , 24, 7102-7114	5.6	27
18	Molecular control of mitochondrial calcium uptake. <i>Biochemical and Biophysical Research Communications</i> , <b>2014</b> , 449, 373-6	3.4	27
17	A High-Throughput Screening Identifies MICU1 Targeting Compounds. <i>Cell Reports</i> , <b>2020</b> , 30, 2321-2331	11.6	25
16	Reply to Filadi et al.: Does Mitofusin 2 tether or separate endoplasmic reticulum and mitochondria?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E2268-E2269	11.5	19
15	Measuring baseline Ca(2+) levels in subcellular compartments using genetically engineered fluorescent indicators. <i>Methods in Enzymology</i> , <b>2014</b> , 543, 47-72	1.7	15
14	Loss of EMILIN-1 Enhances Arteriolar Myogenic Tone Through TGF- $\beta$ -(Transforming Growth Factor- $\beta$ )-Dependent Transactivation of EGFR (Epidermal Growth Factor Receptor) and Is Relevant for Hypertension in Mice and Humans. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2018</b> , 38, 2484-2497	9.4	15
13	Altered MICOS Morphology and Mitochondrial Ion Homeostasis Contribute to Poly(GR) Toxicity Associated with C9-ALS/FTD. <i>Cell Reports</i> , <b>2020</b> , 32, 107989	10.6	12
12	Endoplasmic Reticulum/Mitochondria Calcium Cross-Talk. <i>Novartis Foundation Symposium</i> , 122-139		12
11	Mitochondrial K channels and their implications for disease mechanisms. <i>Pharmacology &amp; Therapeutics</i> , <b>2021</b> , 227, 107874	13.9	7
10	Biosensors for detection of calcium. <i>Methods in Cell Biology</i> , <b>2020</b> , 155, 337-368	1.8	5
9	Astroglial ER-mitochondria calcium transfer mediates endocannabinoid-dependent synaptic integration.. <i>Cell Reports</i> , <b>2021</b> , 37, 110133	10.6	5
8	Breast Tissue Engineering. <i>Plastic and Reconstructive Surgery</i> , <b>2015</b> , 136, 35	2.7	3
7	A new target for an old DUB: UCH-L1 regulates mitofusin-2 levels, altering mitochondrial morphology, function and calcium uptake. <i>Redox Biology</i> , <b>2020</b> , 37, 101676	11.3	3
6	Mitochondria, calcium signaling and cell death by apoptosis and autophagy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2010</b> , 1797, 4	4.6	2
5	Modulation of TRPV-1 by prostaglandin-E and bradykinin changes cough sensitivity and autonomic regulation of cardiac rhythm in healthy subjects. <i>Scientific Reports</i> , <b>2020</b> , 10, 15163	4.9	2
4	A Novel Loss of Function Melanocortin-4-Receptor Mutation (MC4R-F313Sfs*29) in Morbid Obesity. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2021</b> , 106, 736-749	5.6	2
3	Molecular Players of Mitochondrial Calcium Signaling: Similarities and Different Aspects in Various Organisms <b>2017</b> , 41-65		

2 Mitochondria in Cell Life and Death **2007**, 145-158

1 Electrophysiological characterization of an ATP-sensitive mitochondrial potassium channel.  
*Biochimica Et Biophysica Acta - Bioenergetics*, **2016**, 1857, e62-e63

4.6