Cristina Mammucari

List of Publications by Year
in descending order

33	7,586	279798	395702
papers	citations	23 h-index	33 g-index

33	33	33	12704
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	FoxO3 Controls Autophagy in Skeletal Muscle In Vivo. Cell Metabolism, 2007, 6, 458-471.	16.2	1,614
2	Autophagy Is Required to Maintain Muscle Mass. Cell Metabolism, 2009, 10, 507-515.	16.2	1,554
3	Mitochondria as sensors and regulators of calcium signalling. Nature Reviews Molecular Cell Biology, 2012, 13, 566-578.	37.0	1,369
4	Regulation of skeletal muscle growth by the IGF1-Akt/PKB pathway: insights from genetic models. Skeletal Muscle, 2011, 1, 4.	4.2	558
5	Calcium at the Center of Cell Signaling: Interplay between Endoplasmic Reticulum, Mitochondria, and Lysosomes. Trends in Biochemical Sciences, 2016, 41, 1035-1049.	7.5	382
6	DRP1-mediated mitochondrial shape controls calcium homeostasis and muscle mass. Nature Communications, 2019, 10, 2576.	12.8	274
7	Downstream of Akt: FoxO3 and mTOR in the regulation of autophagy in skeletal muscle. Autophagy, 2008, 4, 524-526.	9.1	244
8	Signaling pathways in mitochondrial dysfunction and aging. Mechanisms of Ageing and Development, 2010, 131, 536-543.	4.6	211
9	Inducible activation of Akt increases skeletal muscle mass and force without satellite cell activation. FASEB Journal, 2009, 23, 3896-3905.	0.5	196
10	The mitochondrial calcium uniporter regulates breast cancer progression via <scp>HIF</scp> â€1Î±. EMBO Molecular Medicine, 2016, 8, 569-585.	6.9	195
11	The Mitochondrial Calcium Uniporter Controls Skeletal Muscle Trophism InÂVivo. Cell Reports, 2015, 10, 1269-1279.	6.4	170
12	Mitochondrial calcium uptake in organ physiology: from molecular mechanism to animal models. Pflugers Archiv European Journal of Physiology, 2018, 470, 1165-1179.	2.8	119
13	Structure, Activity Regulation, and Role of the Mitochondrial Calcium Uniporter in Health and Disease. Frontiers in Oncology, 2017, 7, 139.	2.8	80
14	PSEN2 (presenilin 2) mutants linked to familial Alzheimer disease impair autophagy by altering Ca²⁺ homeostasis. Autophagy, 2019, 15, 2044-2062.	9.1	78
15	Physical exercise in aging human skeletal muscle increases mitochondrial calcium uniporter expression levels and affects mitochondria dynamics. Physiological Reports, 2016, 4, e13005.	1.7	71
16	Molecular structure and pathophysiological roles of the Mitochondrial Calcium Uniporter. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 2457-2464.	4.1	62
17	The Mitochondrial Ca2+ Uptake and the Fine-Tuning of Aerobic Metabolism. Frontiers in Physiology, 2020, 11, 554904.	2.8	60
18	A High-Throughput Screening Identifies MICU1 Targeting Compounds. Cell Reports, 2020, 30, 2321-2331.e6.	6.4	54

#	Article	IF	Citations
19	Loss of mitochondrial calcium uniporter rewires skeletal muscle metabolism and substrate preference. Cell Death and Differentiation, 2019, 26, 362-381.	11.2	53
20	Mitochondrial Calcium Increase Induced by RyR1 and IP3R Channel Activation After Membrane Depolarization Regulates Skeletal Muscle Metabolism. Frontiers in Physiology, 2018, 9, 791.	2.8	51
21	A Synthetic Fluorescent Mitochondriaâ€Targeted Sensor for Ratiometric Imaging of Calcium in Live Cells. Angewandte Chemie - International Edition, 2019, 58, 9917-9922.	13.8	39
22	Identification and functional validation of FDA-approved positive and negative modulators of the mitochondrial calcium uniporter. Cell Reports, 2021, 35, 109275.	6.4	28
23	Muscle activity prevents the uncoupling of mitochondria from Ca2+ Release Units induced by ageing and disuse. Archives of Biochemistry and Biophysics, 2019, 663, 22-33.	3.0	26
24	Increased mitochondrial calcium uniporter in adipocytes underlies mitochondrial alterations associated with insulin resistance. American Journal of Physiology - Endocrinology and Metabolism, 2017, 313, E641-E650.	3.5	25
25	Skeletal muscle mitochondria in health and disease. Cell Calcium, 2021, 94, 102357.	2.4	21
26	Gene expression changes of single skeletal muscle fibers in response to modulation of the mitochondrial calcium uniporter (MCU). Genomics Data, 2015, 5, 64-67.	1.3	15
27	Role of p66shc in skeletal muscle function. Scientific Reports, 2017, 7, 6283.	3.3	11
28	Crosstalk between Mitochondrial Ca²⁺ Uptake and Autophagy in Skeletal Muscle. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-10.	4.0	8
29	The mitochondrial calcium homeostasis orchestra plays its symphony: Skeletal muscle is the guest of honor. International Review of Cell and Molecular Biology, 2021, 362, 209-259.	3.2	7
30	Ca2+ Measurements in Mammalian Cells with Aequorin-based Probes. Bio-protocol, 2017, 7, .	0.4	5
31	In the right place at the right time: ROS and Ca2+ are allies in the battle for survival. Cell Calcium, 2021, 95, 102354.	2.4	3
32	A Synthetic Fluorescent Mitochondriaâ€Targeted Sensor for Ratiometric Imaging of Calcium in Live Cells. Angewandte Chemie, 2019, 131, 10022-10027.	2.0	2
33	Ex Vivo Measurements of Ca2+ Transients in Intracellular Compartments of Skeletal Muscle Fibers by Means of Genetically Encoded Probes. Methods in Molecular Biology, 2019, 1925, 103-109.	0.9	1