

Anna Raffaello

List of Publications by Year in descending order

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33
papers

6,547
citations

236925

25
h-index

414414

32
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33
all docs

33
docs citations

33
times ranked

7604
citing authors

#	ARTICLE	IF	CITATIONS
1	A forty-kilodalton protein of the inner membrane is the mitochondrial calcium uniporter. <i>Nature</i> , 2011, 476, 336-340.	27.8	1,622
2	Mitochondria as sensors and regulators of calcium signalling. <i>Nature Reviews Molecular Cell Biology</i> , 2012, 13, 566-578.	37.0	1,369
3	Rapid disuse and denervation atrophy involve transcriptional changes similar to those of muscle wasting during systemic diseases. <i>FASEB Journal</i> , 2007, 21, 140-155.	0.5	495
4	MICU1 and MICU2 Finely Tune the Mitochondrial Ca ²⁺ Uniporter by Exerting Opposite Effects on MCU Activity. <i>Molecular Cell</i> , 2014, 53, 726-737.	9.7	441
5	The mitochondrial calcium uniporter is a multimer that can include a dominant-negative pore-forming subunit. <i>EMBO Journal</i> , 2013, 32, 2362-2376.	7.8	408
6	Calcium at the Center of Cell Signaling: Interplay between Endoplasmic Reticulum, Mitochondria, and Lysosomes. <i>Trends in Biochemical Sciences</i> , 2016, 41, 1035-1049.	7.5	382
7	Loss-of-function mutations in MICU1 cause a brain and muscle disorder linked to primary alterations in mitochondrial calcium signaling. <i>Nature Genetics</i> , 2014, 46, 188-193.	21.4	311
8	The Mitochondrial Calcium Uniporter Controls Skeletal Muscle Trophism In Vivo. <i>Cell Reports</i> , 2015, 10, 1269-1279.	6.4	170
9	The Mitochondrial Calcium Uniporter (MCU): Molecular Identity and Physiological Roles. <i>Journal of Biological Chemistry</i> , 2013, 288, 10750-10758.	3.4	131
10	JunB transcription factor maintains skeletal muscle mass and promotes hypertrophy. <i>Journal of Cell Biology</i> , 2010, 191, 101-113.	5.2	127
11	Mitochondrial calcium uptake in organ physiology: from molecular mechanism to animal models. <i>Pflügers Archiv European Journal of Physiology</i> , 2018, 470, 1165-1179.	2.8	119
12	Crosstalk between Calcium and ROS in Pathophysiological Conditions. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-18.	4.0	115
13	A MICU1 Splice Variant Confers High Sensitivity to the Mitochondrial Ca ²⁺ Uptake Machinery of Skeletal Muscle. <i>Molecular Cell</i> , 2016, 64, 760-773.	9.7	97
14	Mitochondrial longevity pathways. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2011, 1813, 260-268.	4.1	71
15	Denervation in murine fast-twitch muscle: short-term physiological changes and temporal expression profiling. <i>Physiological Genomics</i> , 2006, 25, 60-74.	2.3	70
16	Adrenergic Signaling Regulates Mitochondrial Ca ²⁺ Uptake Through Pyk2-Dependent Tyrosine Phosphorylation of the Mitochondrial Ca ²⁺ Uniporter. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 863-879.	5.4	69
17	Human MYO18B, a Novel Unconventional Myosin Heavy Chain Expressed in Striated Muscles Moves into the Myonuclei upon Differentiation. <i>Journal of Molecular Biology</i> , 2003, 326, 137-149.	4.2	66
18	Molecular structure and pathophysiological roles of the Mitochondrial Calcium Uniporter. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 2457-2464.	4.1	62

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19	The mitochondrial Ca ²⁺ uniporter. <i>Cell Calcium</i> , 2012, 52, 16-21.	2.4	61
20	Meta-analysis of expression signatures of muscle atrophy: gene interaction networks in early and late stages. <i>BMC Genomics</i> , 2008, 9, 630.	2.8	55
21	Physiological Characterization of a Plant Mitochondrial Calcium Uniporter in Vitro and in Vivo. <i>Plant Physiology</i> , 2017, 173, 1355-1370.	4.8	54
22	Overexpression of Mitochondrial Calcium Uniporter Causes Neuronal Death. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-15.	4.0	42
23	Parkin-dependent regulation of the MCU complex component MICU1. <i>Scientific Reports</i> , 2018, 8, 14199.	3.3	31
24	The Ankrd2, Cdkn1c and Calcyclin Genes are Under the Control of MyoD During Myogenic Differentiation. <i>Journal of Molecular Biology</i> , 2005, 349, 349-366.	4.2	30
25	The molecular complexity of the Mitochondrial Calcium Uniporter. <i>Cell Calcium</i> , 2021, 93, 102322.	2.4	29
26	Increased mitochondrial calcium uniporter in adipocytes underlies mitochondrial alterations associated with insulin resistance. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2017, 313, E641-E650.	3.5	25
27	Melatonin activates <i>FIS</i> , <i>DYN</i> ¹ , and <i>DYN</i> ² in <i>Plasmodium falciparum</i> related genes for mitochondria fission: Mitoemerald-GFP as a tool to visualize mitochondria structure. <i>Journal of Pineal Research</i> , 2019, 66, e12484.	7.4	25
28	The ER-mitochondria tether at the hub of Ca ²⁺ signaling. <i>Current Opinion in Physiology</i> , 2020, 17, 261-268.	1.8	21
29	The dominant-negative mitochondrial calcium uniporter subunit MCUb drives macrophage polarization during skeletal muscle regeneration. <i>Science Signaling</i> , 2021, 14, eabf3838.	3.6	17
30	Parvalbumin affects skeletal muscle trophism through modulation of mitochondrial calcium uptake. <i>Cell Reports</i> , 2021, 35, 109087.	6.4	16
31	Excessive Accumulation of Ca ²⁺ in Mitochondria of Y522S-RYR1 Knock-in Mice: A Link Between Leak From the Sarcoplasmic Reticulum and Altered Redox State. <i>Frontiers in Physiology</i> , 2019, 10, 1142.	2.8	14
32	The Splicing of the Mitochondrial Calcium Uniporter Genuine Activator MICU1 Is Driven by RBFOX2 Splicing Factor during Myogenic Differentiation. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2517.	4.1	2
33	Molecular Players of Mitochondrial Calcium Signaling: Similarities and Different Aspects in Various Organisms. <i>Biological and Medical Physics Series</i> , 2017, , 41-65.	0.4	0