Saverio Marchi

List of Publications by Year
in descending order

81 papers	8,451 citations	66315 42 h-index	74108 75 g-index
82 all docs	82 docs citations	82 times ranked	11715 citing authors

#	Article	IF	Citations
1	The machineries, regulation and cellular functions of mitochondrial calcium. Nature Reviews Molecular Cell Biology, 2018, 19, 713-730.	16.1	516
2	Mitochondria-Ros Crosstalk in the Control of Cell Death and Aging. Journal of Signal Transduction, 2012, 2012, 1-17.	2.0	488
3	Protein Kinase C Â and Prolyl Isomerase 1 Regulate Mitochondrial Effects of the Life-Span Determinant p66Shc. Science, 2007, 315, 659-663.	6.0	448
4	Mitochondrial and endoplasmic reticulum calcium homeostasis and cell death. Cell Calcium, 2018, 69, 62-72.	1.1	435
5	Role of the c subunit of the F_OATP synthase in mitochondrial permeability transition. Cell Cycle, 2013, 12, 674-683.	1.3	416
6	Ca2+ transfer from the ER to mitochondria: When, how and why. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 1342-1351.	0.5	396
7	The endoplasmic reticulumâ€“mitochondria connection: One touch, multiple functions. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 461-469.	0.5	392
8	Mitochondrial Ca2+ and apoptosis. Cell Calcium, 2012, 52, 36-43.	1.1	361
9	ATP synthesis and storage. Purinergic Signalling, 2012, 8, 343-357.	1.1	340
10	Calcium signaling around Mitochondria Associated Membranes (MAMs). Cell Communication and Signaling, 2011, 9, 19.	2.7	304
11	The mitochondrial calcium uniporter complex: molecular components, structure and physiopathological implications. Journal of Physiology, 2014, 592, 829-839.	1.3	232
12	Protein Kinases and Phosphatases in the Control of Cell Fate. Enzyme Research, 2011, 2011, 1-26.	1.8	229
13	Mitochondria and Reactive Oxygen Species in Aging and Age-Related Diseases. International Review of Cell and Molecular Biology, 2018, 340, 209-344.	1.6	208
14	Identification of PTEN at the ER and MAMs and its regulation of Ca2+ signaling and apoptosis in a protein phosphatase-dependent manner. Cell Death and Differentiation, 2013, 20, 1631-1643.	5.0	204
15	Downregulation of the Mitochondrial Calcium Uniporter by Cancer-Related miR-25. Current Biology, 2013, 23, 58-63.	1.8	198
16	Mitochondrial calcium homeostasis as potential target for mitochondrial medicine. Mitochondrion, 2012, 12, 77-85.	1.6	158
17	Subcellular calcium measurements in mammalian cells using jellyfish photoprotein aequorin-based probes. Nature Protocols, 2013, 8, 2105-2118.	5.5	149
18	Use of luciferase probes to measure ATP in living cells and animals. Nature Protocols, 2017, 12, 1542-1562.	5.5	149

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19	Selective modulation of subtype III IP3R by Akt regulates ER Ca2+ release and apoptosis. Cell Death and Disease, 2012, 3, e304-e304.	2.7	145
20	Mitochondrial Ca2+-dependent NLRP3 activation exacerbates the Pseudomonas aeruginosa-driven inflammatory response in cystic fibrosis. Nature Communications, 2015, 6, 6201.	5.8	130
21	Ca2+ Fluxes and Cancer. Molecular Cell, 2020, 78, 1055-1069.	4.5	130
22	Redox Control of Protein Kinase C: Cell- and Disease-Specific Aspects. Antioxidants and Redox Signaling, 2010, 13, 1051-1085.	2.5	123
23	Mcl-1 involvement in mitochondrial dynamics is associated with apoptotic cell death. Molecular Biology of the Cell, 2016, 27, 20-34.	0.9	120
24	Akt kinase reducing endoplasmic reticulum Ca2+ release protects cells from Ca2+-dependent apoptotic stimuli. Biochemical and Biophysical Research Communications, 2008, 375, 501-505.	1.0	109
25	Defective autophagy is a key feature of cerebral cavernous malformations. EMBO Molecular Medicine, 2015, 7, 1403-1417.	3.3	109
26	Endoplasmic Reticulum-Mitochondria Communication Through Ca2+ Signaling: The Importance of Mitochondria-Associated Membranes (MAMs). Advances in Experimental Medicine and Biology, 2017, 997, 49-67.	0.8	107
27	KRIT1 Regulates the Homeostasis of Intracellular Reactive Oxygen Species. PLoS ONE, 2010, 5, e11786.	1.1	106
28	Transglutaminase Type 2 Regulates ER-Mitochondria Contact Sites by Interacting with GRP75. Cell Reports, 2018, 25, 3573-3581.e4.	2.9	101
29	Alterations of calcium homeostasis in cancer cells. Current Opinion in Pharmacology, 2016, 29, 1-6.	1.7	99
30	Tumor necrosis factor-Î± impairs oligodendroglial differentiation through a mitochondria-dependent process. Cell Death and Differentiation, 2014, 21, 1198-1208.	5.0	97
31	Role of Mitochondria-Associated ER Membranes in Calcium Regulation in Cancer-Specific Settings. Neoplasia, 2018, 20, 510-523.	2.3	96
32	Aktâ€mediated phosphorylation of <scp>MICU</scp> 1 regulates mitochondrial Ca ²⁺ levels and tumor growth. EMBO Journal, 2019, 38, .	3.5	77
33	Perturbed mitochondrial Ca²⁺signals as causes or consequences of mitophagy induction. Autophagy, 2013, 9, 1677-1686.	4.3	73
34	PRKCB/protein kinase C, beta and the mitochondrial axis as key regulators of autophagy. Autophagy, 2013, 9, 1367-1385.	4.3	70
35	Mitophagy in Cardiovascular Diseases. Journal of Clinical Medicine, 2020, 9, 892.	1.0	70
36	Noncanonical Cell Fate Regulation by Bcl-2 Proteins. Trends in Cell Biology, 2020, 30, 537-555.	3.6	70

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37	Mitochondria-Associated Membranes (MAMs) as Hotspot Ca2+ Signaling Units. Advances in Experimental Medicine and Biology, 2012, 740, 411-437.	0.8	70
38	Mitochondria in Multiple Sclerosis: Molecular Mechanisms of Pathogenesis. International Review of Cell and Molecular Biology, 2017, 328, 49-103.	1.6	65
39	Intramitochondrial calcium regulation by the FHIT gene product sensitizes to apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12753-12758.	3.3	58
40	H-Ras-driven tumoral maintenance is sustained through caveolin-1-dependent alterations in calcium signaling. Oncogene, 2014, 33, 2329-2340.	2.6	54
41	Mitochondria-Associated Endoplasmic Reticulum Membranes Microenvironment: Targeting Autophagic and Apoptotic Pathways in Cancer Therapy. Frontiers in Oncology, 2015, 5, 173.	1.3	53
42	Autophagy and mitophagy elements are increased in body fluids of multiple sclerosis-affected individuals. Journal of Neurology, Neurosurgery and Psychiatry, 2018, 89, 439-441.	0.9	53
43	Oncogenic and oncosuppressive signal transduction at mitochondria-associated endoplasmic reticulum membranes. Molecular and Cellular Oncology, 2014, 1, e956469.	0.3	43
44	Antipsychotic drugs counteract autophagy and mitophagy in multiple sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	40
45	TFEB-mediated increase in peripheral lysosomes regulates store-operated calcium entry. Scientific Reports, 2017, 7, 40797.	1.6	37
46	Alterations in Ca2+ Signalling via ER-Mitochondria Contact Site Remodelling in Cancer. Advances in Experimental Medicine and Biology, 2017, 997, 225-254.	0.8	35
47	Dopamine D2 receptor-mediated neuroprotection in a G2019S Lrrk2 genetic model of Parkinsonâ€™s disease. Cell Death and Disease, 2018, 9, 204.	2.7	35
48	Interorganellar calcium signaling in the regulation of cell metabolism: A cancer perspective. Seminars in Cell and Developmental Biology, 2020, 98, 167-180.	2.3	35
49	Mitochondrial calcium uniporter complex modulation in cancerogenesis. Cell Cycle, 2019, 18, 1068-1083.	1.3	34
50	The heme synthesis-export system regulates the tricarboxylic acid cycle flux and oxidative phosphorylation. Cell Reports, 2021, 35, 109252.	2.9	29
51	IP3 receptor blockade restores autophagy and mitochondrial function in skeletal muscle fibers of dystrophic mice. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 3685-3695.	1.8	28
52	Cellular processes underlying cerebral cavernous malformations: Autophagy as another point of view. Autophagy, 2016, 12, 424-425.	4.3	25
53	Control of host mitochondria by bacterial pathogens. Trends in Microbiology, 2022, 30, 452-465.	3.5	25
54	Beyond multiple mechanisms and a unique drug: Defective autophagy as pivotal player in cerebral cavernous malformation pathogenesis and implications for targeted therapies. Rare Diseases (Austin,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.8	24

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55	KRIT1 Deficiency Promotes Aortic Endothelial Dysfunction. International Journal of Molecular Sciences, 2019, 20, 4930.	1.8	24
56	Citrate Mediates Crosstalk between Mitochondria and the Nucleus to Promote Human Mesenchymal Stem Cell In Vitro Osteogenesis. Cells, 2020, 9, 1034.	1.8	21
57	Endoplasmic Reticulum/Mitochondria Calcium Cross-Talk. Novartis Foundation Symposium, 0, , 122-139.	1.2	21
58	Mitochondrial calcium uniporter, MiRNA and cancer. Communicative and Integrative Biology, 2013, 6, e23818.	0.6	20
59	High mitochondrial Ca²⁺ content increases cancer cell proliferation upon inhibition of mitochondrial permeability transition pore (mPTP). Cell Cycle, 2019, 18, 914-916.	1.3	19
60	Methods to Assess Mitochondrial Morphology in Mammalian Cells Mounting Autophagic or Mitophagic Responses. Methods in Enzymology, 2017, 588, 171-186.	0.4	18
61	Impaired mitochondrial quality control in Rett Syndrome. Archives of Biochemistry and Biophysics, 2021, 700, 108790.	1.4	18
62	The chaperoneâ€like sodium phenylbutyrate improves factor IX intracellular trafficking and activity impaired by the frequent p.R294Q mutation. Journal of Thrombosis and Haemostasis, 2018, 16, 2035-2043.	1.9	16
63	Endoplasmic reticulum/mitochondria calcium cross-talk. Novartis Foundation Symposium, 2007, 287, 122-31; discussion 131-9.	1.2	16
64	Cancer-Related Increases and Decreases in Calcium Signaling at the Endoplasmic Reticulum-Mitochondria Interface (MAMs). Reviews of Physiology, Biochemistry and Pharmacology, 2020, , 153-193.	0.9	13
65	Translational readthrough ofGLAnonsense mutations suggests dominant-negative effects exerted by the interaction of wild-type and missense variants. RNA Biology, 2020, 17, 254-263.	1.5	11
66	Altered type I collagen networking in osteoporotic human femoral head revealed by histomorphometric and Fourier transform infrared imaging correlated analyses. BioFactors, 2022, 48, 1089-1110.	2.6	11
67	Methods to Monitor Mitophagy and Mitochondrial Quality: Implications in Cancer, Neurodegeneration, and Cardiovascular Diseases. Methods in Molecular Biology, 2021, 2310, 113-159.	0.4	9
68	Heterotopic ossification in a patient with diffuse idiopathic skeletal hyperostosis: Input from histological findings. European Journal of Histochemistry, 2020, 64, .	0.6	6
69	Mitochondria in the line of fire. Cell Death and Differentiation, 2022, 29, 1301-1303.	5.0	5
70	Editorial: Organelles Relationships and Interactions: A Cancer Perspective. Frontiers in Cell and Developmental Biology, 2021, 9, 678307.	1.8	4
71	Mitochondria, calcium signaling and cell death by apoptosis and autophagy. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 4.	0.5	2
72	The lessâ€known face of dupilumab: its role in mesenchymal stem cells by interleukinâ€13 modulation. British Journal of Dermatology, 2021, 185, 217-219.	1.4	2

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73	Molecular Characterization of the Dominant-Negative Role of Cancer-Associated PTEN: Sometimes, Null is Better. Frontiers in Oncology, 2014, 4, 276.	1.3	1
74	Ca2+ in health and disease. International Review of Cell and Molecular Biology, 2021, 363, ix-xv.	1.6	1
75	MitopatHs: A new logically-framed tool for visualizing multiple mitochondrial pathways. IScience, 2021, 24, 102324.	1.9	1
76	The RED light is on! New tools for monitoring Ca2+ dynamics in the endoplasmic reticulum and mitochondria. Biochemical Journal, 2014, 464, e5-e6.	1.7	0
77	The Role of Oxidative Stress in Cerebral Cavernous Malformation (CCM) Pathogenesis: From Disease Mechanisms toward Therapeutic Approaches. Free Radical Biology and Medicine, 2015, 87, S56.	1.3	0
78	Krit1 loss-of-function increases TNF-Î± -induced apoptosis by inhibiting Notch1 in endothelial cells. Journal of Molecular and Cellular Cardiology, 2018, 120, 48.	0.9	0
79	Preface: Ca2+ in health and disease. International Review of Cell and Molecular Biology, 2021, 362, xi-xvii.	1.6	0
80	Detection of p62/SQSTM1 Aggregates in Cellular Models of CCM Disease by Immunofluorescence. Methods in Molecular Biology, 2020, 2152, 417-426.	0.4	0
81	MitopatHs: A New Tool for the Visualisation and Comprehension of Multiple Mitochondrial Pathways Through a Logical Frame. SSRN Electronic Journal, 0, , .	0.4	0