

# Alessandro Rimessi

## List of Publications by Year in descending order

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75  
papers

7,476  
citations

66234

42  
h-index

85405

71  
g-index

77  
all docs

77  
docs citations

77  
times ranked

11426  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondria-Ros Crosstalk in the Control of Cell Death and Aging. <i>Journal of Signal Transduction</i> , 2012, 2012, 1-17.	2.0	488
2	Protein Kinase C $\delta$ and Prolyl Isomerase 1 Regulate Mitochondrial Effects of the Life-Span Determinant p66Shc. <i>Science</i> , 2007, 315, 659-663.	6.0	448
3	Mitochondrial and endoplasmic reticulum calcium homeostasis and cell death. <i>Cell Calcium</i> , 2018, 69, 62-72.	1.1	435
4	Role of the c subunit of the F <sub>1</sub> O <sub>1</sub> ATP synthase in mitochondrial permeability transition. <i>Cell Cycle</i> , 2013, 12, 674-683.	1.3	416
5	Ca <sup>2+</sup> transfer from the ER to mitochondria: When, how and why. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 1342-1351.	0.5	396
6	Mitochondrial Ca <sup>2+</sup> and apoptosis. <i>Cell Calcium</i> , 2012, 52, 36-43.	1.1	361
7	ATP synthesis and storage. <i>Purinergic Signalling</i> , 2012, 8, 343-357.	1.1	340
8	Calcium signaling around Mitochondria Associated Membranes (MAMs). <i>Cell Communication and Signaling</i> , 2011, 9, 19.	2.7	304
9	High glucose induces adipogenic differentiation of muscle-derived stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1226-1231.	3.3	243
10	Protein Kinases and Phosphatases in the Control of Cell Fate. <i>Enzyme Research</i> , 2011, 2011, 1-26.	1.8	229
11	Mitochondria and Reactive Oxygen Species in Aging and Age-Related Diseases. <i>International Review of Cell and Molecular Biology</i> , 2018, 340, 209-344.	1.6	208
12	Downregulation of the Mitochondrial Calcium Uniporter by Cancer-Related miR-25. <i>Current Biology</i> , 2013, 23, 58-63.	1.8	198
13	Ero1 $\beta$ Regulates Ca <sup>2+</sup> Fluxes at the Endoplasmic Reticulum-Mitochondria Interface (MAM). <i>Antioxidants and Redox Signaling</i> , 2012, 16, 1077-1087.	2.5	180
14	Mitochondrial calcium homeostasis as potential target for mitochondrial medicine. <i>Mitochondrion</i> , 2012, 12, 77-85.	1.6	158
15	Subcellular calcium measurements in mammalian cells using jellyfish photoprotein aequorin-based probes. <i>Nature Protocols</i> , 2013, 8, 2105-2118.	5.5	149
16	Mitochondrial reactive oxygen species and inflammation: Molecular mechanisms, diseases and promising therapies. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 81, 281-293.	1.2	147
17	Selective modulation of subtype III IP3R by Akt regulates ER Ca <sup>2+</sup> release and apoptosis. <i>Cell Death and Disease</i> , 2012, 3, e304-e304.	2.7	145
18	Mitochondrial Ca <sup>2+</sup> -dependent NLRP3 activation exacerbates the <i>Pseudomonas aeruginosa</i> -driven inflammatory response in cystic fibrosis. <i>Nature Communications</i> , 2015, 6, 6201.	5.8	130

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19	Redox Control of Protein Kinase C: Cell- and Disease-Specific Aspects. <i>Antioxidants and Redox Signaling</i> , 2010, 13, 1051-1085.	2.5	123
20	Calcium and mitochondria: mechanisms and functions of a troubled relationship. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2004, 1742, 119-131.	1.9	115
21	Akt kinase reducing endoplasmic reticulum Ca <sup>2+</sup> release protects cells from Ca <sup>2+</sup> -dependent apoptotic stimuli. <i>Biochemical and Biophysical Research Communications</i> , 2008, 375, 501-505.	1.0	109
22	The SUMO E3-ligase PIAS1 Regulates the Tumor Suppressor PML and Its Oncogenic Counterpart PML-RARA. <i>Cancer Research</i> , 2012, 72, 2275-2284.	0.4	109
23	Defective autophagy is a key feature of cerebral cavernous malformations. <i>EMBO Molecular Medicine</i> , 2015, 7, 1403-1417.	3.3	109
24	Endoplasmic Reticulum-Mitochondria Communication Through Ca <sup>2+</sup> Signaling: The Importance of Mitochondria-Associated Membranes (MAMs). <i>Advances in Experimental Medicine and Biology</i> , 2017, 997, 49-67.	0.8	107
25	The versatility of mitochondrial calcium signals: From stimulation of cell metabolism to induction of cell death. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 808-816.	0.5	106
26	Tumor necrosis factor- $\alpha$ impairs oligodendroglial differentiation through a mitochondria-dependent process. <i>Cell Death and Differentiation</i> , 2014, 21, 1198-1208.	5.0	97
27	Human aquaporin-11 guarantees efficient transport of H <sub>2</sub> O <sub>2</sub> across the endoplasmic reticulum membrane. <i>Redox Biology</i> , 2020, 28, 101326.	3.9	85
28	Biosensors for the Detection of Calcium and pH. <i>Methods in Cell Biology</i> , 2007, 80, 297-325.	0.5	75
29	Perturbed mitochondrial Ca <sup>2+</sup> signals as causes or consequences of mitophagy induction. <i>Autophagy</i> , 2013, 9, 1677-1686.	4.3	73
30	PRKCB/protein kinase C, beta and the mitochondrial axis as key regulators of autophagy. <i>Autophagy</i> , 2013, 9, 1367-1385.	4.3	70
31	Mitochondria-Associated Membranes (MAMs) as Hotspot Ca <sup>2+</sup> Signaling Units. <i>Advances in Experimental Medicine and Biology</i> , 2012, 740, 411-437.	0.8	70
32	Inhibitory Interaction of the 14-3-3 $\mu$ Protein with Isoform 4 of the Plasma Membrane Ca <sup>2+</sup> -ATPase Pump. <i>Journal of Biological Chemistry</i> , 2005, 280, 37195-37203.	1.6	67
33	Plasmatic extracellular vesicle microRNAs in malignant pleural mesothelioma and asbestos-exposed subjects suggest a 2-miRNA signature as potential biomarker of disease. <i>PLoS ONE</i> , 2017, 12, e0176680.	1.1	64
34	Regulation of Calcium Fluxes by GPX8, a Type-II Transmembrane Peroxidase Enriched at the Mitochondria-Associated Endoplasmic Reticulum Membrane. <i>Antioxidants and Redox Signaling</i> , 2017, 27, 583-595.	2.5	63
35	Mitochondrial Oxidative Stress and "Mito-Inflammation" Actors in the Diseases. <i>Biomedicines</i> , 2021, 9, 216.	1.4	63
36	Pulmonary metastasectomy: an overview. <i>Journal of Thoracic Disease</i> , 2017, 9, S1291-S1298.	0.6	61

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37	The mitochondrial permeability transition pore: an evolving concept critical for cell life and death. <i>Biological Reviews</i> , 2021, 96, 2489-2521.	4.7	59
38	Intramitochondrial calcium regulation by the FHIT gene product sensitizes to apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12753-12758.	3.3	58
39	Metformin prevents liver tumorigenesis by attenuating fibrosis in a transgenic mouse model of hepatocellular carcinoma. <i>Oncogene</i> , 2019, 38, 7035-7045.	2.6	55
40	H-Ras-driven tumoral maintenance is sustained through caveolin-1-dependent alterations in calcium signaling. <i>Oncogene</i> , 2014, 33, 2329-2340.	2.6	54
41	Regulation of Endoplasmic Reticulumâ€“Mitochondria Ca <sup>2+</sup> Transfer and Its Importance for Anti-Cancer Therapies. <i>Frontiers in Oncology</i> , 2017, 7, 180.	1.3	48
42	Gelatinâ€“genipinâ€“based biomaterials for skeletal muscle tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 2763-2777.	1.6	48
43	Pharmacotoxicological effects of the novel thirdâ€“generation fluorinate synthetic cannabinoids, <scp>5Fâ€“ADBINACA</scp>, <scp>ABâ€“FUBINACA</scp>, and <scp>STSâ€“135</scp> in mice. In vitro and in vivo studies. <i>Human Psychopharmacology</i> , 2017, 32, e2601.	0.7	40
44	Pharmacological modulation of mitochondrial calcium uniporter controls lung inflammation in cystic fibrosis. <i>Science Advances</i> , 2020, 6, eaax9093.	4.7	39
45	Interorganellar calcium signaling in the regulation of cell metabolism: A cancer perspective. <i>Seminars in Cell and Developmental Biology</i> , 2020, 98, 167-180.	2.3	35
46	Phospholipase C-Î²3 Is a Key Modulator of IL-8 Expression in Cystic Fibrosis Bronchial Epithelial Cells. <i>Journal of Immunology</i> , 2011, 186, 4946-4958.	0.4	34
47	Transient Receptor Potential Ankyrin 1 Channels Modulate Inflammatory Response in Respiratory Cells from Patients with Cystic Fibrosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2016, 55, 645-656.	1.4	34
48	Î²-Sitosterol Reduces the Expression of Chemotactic Cytokine Genes in Cystic Fibrosis Bronchial Epithelial Cells. <i>Frontiers in Pharmacology</i> , 2017, 8, 236.	1.6	32
49	Mitochondrial Ca <sup>2+</sup> Remodeling is a Prime Factor in Oncogenic Behavior. <i>Frontiers in Oncology</i> , 2015, 5, 143.	1.3	31
50	Cell death as a result of calcium signaling modulation: A cancer-centric prospective. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2021, 1868, 119061.	1.9	29
51	Functional Specificity of PMCA Isoforms?. <i>Annals of the New York Academy of Sciences</i> , 2007, 1099, 237-246.	1.8	28
52	Weight gain related to treatment with atypical antipsychotics is due to activation of PKC-Î². <i>Pharmacogenomics Journal</i> , 2010, 10, 408-417.	0.9	25
53	Role of Cystic Fibrosis Bronchial Epithelium in Neutrophil Chemotaxis. <i>Frontiers in Immunology</i> , 2020, 11, 1438.	2.2	25
54	Differential recruitment of PKC isoforms in HeLa cells during redox stress. <i>Cell Stress and Chaperones</i> , 2007, 12, 291.	1.2	24

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55	Calcium dysregulation in heart diseases: Targeting calcium channels to achieve a correct calcium homeostasis. <i>Pharmacological Research</i> , 2022, 177, 106119.	3.1	22
56	Endoplasmic Reticulum/Mitochondria Calcium Cross-Talk. <i>Novartis Foundation Symposium</i> , 0, , 122-139.	1.2	21
57	Mitochondrial Stress Responses and "Mito-Inflammation" in Cystic Fibrosis. <i>Frontiers in Pharmacology</i> , 2020, 11, 581114.	1.6	18
58	Functional and structural alterations in the endoplasmic reticulum and mitochondria during apoptosis triggered by C2-ceramide and CD95/APO-1/FAS receptor stimulation. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 575-581.	1.0	17
59	PLC $\beta$ 1 suppression promotes the adaptation of KRAS-mutant lung adenocarcinomas to hypoxia. <i>Nature Cell Biology</i> , 2020, 22, 1382-1395.	4.6	16
60	Update on Calcium Signaling in Cystic Fibrosis Lung Disease. <i>Frontiers in Pharmacology</i> , 2021, 12, 581645.	1.6	16
61	Molecular Mechanisms of Autophagy in Cancer Development, Progression, and Therapy. <i>Biomedicines</i> , 2022, 10, 1596.	1.4	16
62	Chemoresistance and Cancer-Related Inflammation: Two Hallmarks of Cancer Connected by an Atypical Link, PKC $\zeta$ . <i>Frontiers in Oncology</i> , 2013, 3, 232.	1.3	15
63	Efficacy of magnesium chloride in the treatment of Hailey-Hailey disease: from serendipity to evidence of its effect on intracellular Ca <sup>2+</sup> homeostasis. <i>International Journal of Dermatology</i> , 2015, 54, 543-548.	0.5	15
64	Protein Kinase C $\beta$ 2: a New Target Therapy to Prevent the Long-Term Atypical Antipsychotic-Induced Weight Gain. <i>Neuropsychopharmacology</i> , 2017, 42, 1491-1501.	2.8	15
65	PLCB3 Loss of Function Reduces <i>Pseudomonas aeruginosa</i> -Dependent IL-8 Release in Cystic Fibrosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 59, 428-436.	1.4	15
66	A novel chimeric aequorin fused with caveolin-1 reveals a sphingosine kinase 1-regulated Ca <sup>2+</sup> microdomain in the caveolar compartment. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 2173-2182.	1.9	12
67	The selective inhibition of nuclear PKC $\zeta$ restores the effectiveness of chemotherapeutic agents in chemoresistant cells. <i>Cell Cycle</i> , 2012, 11, 1040-1048.	1.3	11
68	Overview of CF lung pathophysiology. <i>Current Opinion in Pharmacology</i> , 2022, 64, 102214.	1.7	10
69	Methods to Monitor Mitophagy and Mitochondrial Quality: Implications in Cancer, Neurodegeneration, and Cardiovascular Diseases. <i>Methods in Molecular Biology</i> , 2021, 2310, 113-159.	0.4	9
70	Mitochondria, calcium signaling and cell death by apoptosis and autophagy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 4.	0.5	2
71	Efficacy of magnesium chloride in the treatment of Hailey-Hailey disease: some further considerations. <i>International Journal of Dermatology</i> , 2016, 55, e170-1.	0.5	2
72	Editorial: Oncogenic RAS-Dependent Reprogramming of Cellular Plasticity. <i>Frontiers in Oncology</i> , 2020, 10, 588.	1.3	2

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73	P/15 Mitochondrial Ca <sup>2+</sup> homeostasis in cell life and death. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, S5.	0.5	0
74	The new target therapy to prevent weight gain associated to atypical antipsychotics: PKC $\beta$ 2. <i>European Psychiatry</i> , 2017, 41, S370-S371.	0.1	0
75	Glyceryl Tristearate-Based Lipid Microparticles Loaded with the Tattoo Colorant, Acid Red 87: Colorant Retention Capacity in Excised Porcine Skin. <i>Skin Pharmacology and Physiology</i> , 2020, 33, 1-8.	1.1	0