Paolo Pinton

List of Publications by Year
in descending order

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372 papers	45,009 citations	2423 97 h-index	2323 199 g-index
395 all docs	395 docs citations	395 times ranked	54804 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
2	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. Cell Death and Differentiation, 2018, 25, 486-541.	5.0	4,036
3	Close Contacts with the Endoplasmic Reticulum as Determinants of Mitochondrial Ca2+ Responses. Science, 1998, 280, 1763-1766.	6.0	2,045
4	Electron Transfer between Cytochrome c and p66Shc Generates Reactive Oxygen Species that Trigger Mitochondrial Apoptosis. Cell, 2005, 122, 221-233.	13.5	1,041
5	Regulation of autophagy by cytoplasmic p53. Nature Cell Biology, 2008, 10, 676-687.	4.6	1,025
6	Calcium and apoptosis: ER-mitochondria Ca2+ transfer in the control of apoptosis. Oncogene, 2008, 27, 6407-6418.	2.6	944
7	Essential versus accessory aspects of cell death: recommendations of the NCCD 2015. Cell Death and Differentiation, 2015, 22, 58-73.	5.0	811
8	Isolation of mitochondria-associated membranes and mitochondria from animal tissues and cells. Nature Protocols, 2009, 4, 1582-1590.	5.5	726
9	Regulation of mitochondrial ATP synthesis by calcium: Evidence for a long-term metabolic priming. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 13807-13812.	3.3	724
10	The Ca2+ concentration of the endoplasmic reticulum is a key determinant of ceramide-induced apoptosis: significance for the molecular mechanism of Bcl-2 action. EMBO Journal, 2001, 20, 2690-2701.	3.5	533
11	The machineries, regulation and cellular functions of mitochondrial calcium. Nature Reviews Molecular Cell Biology, 2018, 19, 713-730.	16.1	516
12	Mitochondria-Ros Crosstalk in the Control of Cell Death and Aging. Journal of Signal Transduction, 2012, 2012, 1-17.	2.0	488
13	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
14	Calcium and apoptosis: facts and hypotheses. Oncogene, 2003, 22, 8619-8627.	2.6	439
15	Reduced Loading of Intracellular Ca2+ Stores and Downregulation of Capacitative Ca2+Influx in Bcl-2â€“Overexpressing Cells. Journal of Cell Biology, 2000, 148, 857-862.	2.3	435
16	Mitochondrial and endoplasmic reticulum calcium homeostasis and cell death. Cell Calcium, 2018, 69, 62-72.	1.1	435
17	Role of the c subunit of the F_OATP synthase in mitochondrial permeability transition. Cell Cycle, 2013, 12, 674-683.	1.3	416
18	The Golgi apparatus is an inositol 1,4,5-trisphosphate-sensitive Ca2+ store, with functional properties distinct from those of the endoplasmic reticulum. EMBO Journal, 1998, 17, 5298-5308.	3.5	415

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19	Recombinant expression of the voltage-dependent anion channel enhances the transfer of Ca2+ microdomains to mitochondria. Journal of Cell Biology, 2002, 159, 613-624.	2.3	400
20	Ca2+ transfer from the ER to mitochondria: When, how and why. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 1342-1351.	0.5	396
21	The endoplasmic reticulumâ€“mitochondria connection: One touch, multiple functions. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 461-469.	0.5	392
22	Mitochondrial Ca2+ and apoptosis. Cell Calcium, 2012, 52, 36-43.	1.1	361
23	PML Regulates Apoptosis at Endoplasmic Reticulum by Modulating Calcium Release. Science, 2010, 330, 1247-1251.	6.0	360
24	ATP synthesis and storage. Purinergic Signalling, 2012, 8, 343-357.	1.1	340
25	Systemic Elevation of PTEN Induces a Tumor-Suppressive Metabolic State. Cell, 2012, 149, 49-62.	13.5	339
26	Structural and functional link between the mitochondrial network and the endoplasmic reticulum. International Journal of Biochemistry and Cell Biology, 2009, 41, 1817-1827.	1.2	337
27	Relation Between Mitochondrial Membrane Potential and ROS Formation. Methods in Molecular Biology, 2012, 810, 183-205.	0.4	318
28	BAP1 regulates IP3R3-mediated Ca2+ flux to mitochondria suppressing cell transformation. Nature, 2017, 546, 549-553.	13.7	308
29	Calcium signaling around Mitochondria Associated Membranes (MAMs). Cell Communication and Signaling, 2011, 9, 19.	2.7	304
30	A Novel Recombinant Plasma Membrane-targeted Luciferase Reveals a New Pathway for ATP Secretion. Molecular Biology of the Cell, 2005, 16, 3659-3665.	0.9	283
31	pH difference across the outer mitochondrial membrane measured with a green fluorescent protein mutant. Biochemical and Biophysical Research Communications, 2005, 326, 799-804.	1.0	259
32	Ca2+ Signaling, Mitochondria and Cell Death. Current Molecular Medicine, 2008, 8, 119-130.	0.6	258
33	VDAC1 selectively transfers apoptotic Ca2+ signals to mitochondria. Cell Death and Differentiation, 2012, 19, 267-273.	5.0	255
34	Mitochondria, calcium and cell death: A deadly triad in neurodegeneration. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 335-344.	0.5	254
35	Methods to Monitor ROS Production by Fluorescence Microscopy and Fluorometry. Methods in Enzymology, 2014, 542, 243-262.	0.4	253
36	p53 at the endoplasmic reticulum regulates apoptosis in a Ca ²⁺ -dependent manner. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1779-1784.	3.3	247

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37	Molecular mechanisms of cell death: central implication of ATP synthase in mitochondrial permeability transition. Oncogene, 2015, 34, 1475-1486.	2.6	244
38	High glucose induces adipogenic differentiation of muscle-derived stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1226-1231.	3.3	243
39	Mitochondria-Associated Membranes: Composition, Molecular Mechanisms, and Physiopathological Implications. Antioxidants and Redox Signaling, 2015, 22, 995-1019.	2.5	243
40	Basal Activation of the P2X7 ATP Receptor Elevates Mitochondrial Calcium and Potential, Increases Cellular ATP Levels, and Promotes Serum-independent Growth. Molecular Biology of the Cell, 2005, 16, 3260-3272.	0.9	242
41	Cancer-Associated PTEN Mutants Act in a Dominant-Negative Manner to Suppress PTEN Protein Function. Cell, 2014, 157, 595-610.	13.5	235
42	The mitochondrial calcium uniporter complex: molecular components, structure and physiopathological implications. Journal of Physiology, 2014, 592, 829-839.	1.3	232
43	A STAT3-mediated metabolic switch is involved in tumour transformation and STAT3 addiction. Aging, 2010, 2, 823-842.	1.4	231
44	Protein Kinases and Phosphatases in the Control of Cell Fate. Enzyme Research, 2011, 2011, 1-26.	1.8	229
45	Bcl-2 and Ca2+ homeostasis in the endoplasmic reticulum. Cell Death and Differentiation, 2006, 13, 1409-1418.	5.0	224
46	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
47	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
48	Downregulation of the Mitochondrial Calcium Uniporter by Cancer-Related miR-25. Current Biology, 2013, 23, 58-63.	1.8	198
49	Molecular identity of the mitochondrial permeability transition pore and its role in ischemia-reperfusion injury. Journal of Molecular and Cellular Cardiology, 2015, 78, 142-153.	0.9	194
50	Melatonin as a master regulator of cell death and inflammation: molecular mechanisms and clinical implications for newborn care. Cell Death and Disease, 2019, 10, 317.	2.7	189
51	Dense core secretory vesicles revealed as a dynamic Ca2+store in neuroendocrine cells with a vesicle-associated membrane protein aequorin chimaera. Journal of Cell Biology, 2001, 155, 41-52.	2.3	188
52	Targeting mitochondria for cardiovascular disorders: therapeutic potential and obstacles. Nature Reviews Cardiology, 2019, 16, 33-55.	6.1	188
53	Mitochondria in non-alcoholic fatty liver disease. International Journal of Biochemistry and Cell Biology, 2018, 95, 93-99.	1.2	183
54	PTEN counteracts FBXL2 to promote IP3R3- and Ca2+-mediated apoptosis limiting tumour growth. Nature, 2017, 546, 554-558.	13.7	182

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55	Ero1Î± Regulates Ca²⁺Fluxes at the Endoplasmic Reticulumâ€“Mitochondria Interface (MAM). Antioxidants and Redox Signaling, 2012, 16, 1077-1087.	2.5	180
56	The metabolic co-regulator PGC1Î± suppresses prostate cancer metastasis. Nature Cell Biology, 2016, 18, 645-656.	4.6	176
57	Calcium Dynamics as a Machine for Decoding Signals. Trends in Cell Biology, 2018, 28, 258-273.	3.6	176
58	Molecular mechanisms and consequences of mitochondrial permeability transition. Nature Reviews Molecular Cell Biology, 2022, 23, 266-285.	16.1	174
59	The P2X7 receptor directly interacts with the NLRP3 inflammasome scaffold protein. FASEB Journal, 2015, 29, 2450-2461.	0.2	169
60	Mitochondria as biosensors of calcium microdomains. Cell Calcium, 1999, 26, 193-200.	1.1	164
61	Interaction of Mitochondria with the Endoplasmic Reticulum and Plasma Membrane in Calcium Homeostasis, Lipid Trafficking and Mitochondrial Structure. International Journal of Molecular Sciences, 2017, 18, 1576.	1.8	164
62	Mitochondrial permeability transition involves dissociation of F₁<scp>F_O ATP</scp> synthase dimers and Câ€ring conformation. EMBO Reports, 2017, 18, 1077-1089.	2.0	163
63	Mitochondrial calcium homeostasis as potential target for mitochondrial medicine. Mitochondrion, 2012, 12, 77-85.	1.6	158
64	Accelerated Tumor Progression in Mice Lacking the ATP Receptor P2X7. Cancer Research, 2015, 75, 635-644.	0.4	157
65	A calcium signaling defect in the pathogenesis of a mitochondrial DNA inherited oxidative phosphorylation deficiency. Nature Medicine, 1999, 5, 951-954.	15.2	154
66	Syndromic parkinsonism and dementia associated with <scp>OPA</scp>1 missense mutations. Annals of Neurology, 2015, 78, 21-38.	2.8	154
67	The mitochondrial heme exporter FLVCR1b mediates erythroid differentiation. Journal of Clinical Investigation, 2012, 122, 4569-4579.	3.9	153
68	Endoplasmic reticulum stress and alteration in calcium homeostasis are involved in cadmium-induced apoptosis. Cell Calcium, 2008, 43, 184-195.	1.1	151
69	Subcellular calcium measurements in mammalian cells using jellyfish photoprotein aequorin-based probes. Nature Protocols, 2013, 8, 2105-2118.	5.5	149
70	Use of luciferase probes to measure ATP in living cells and animals. Nature Protocols, 2017, 12, 1542-1562.	5.5	149
71	The Mitochondrial Permeability Transition Pore and Cancer: Molecular Mechanisms Involved in Cell Death. Frontiers in Oncology, 2014, 4, 302.	1.3	148
72	Mitochondrial reactive oxygen species and inflammation: Molecular mechanisms, diseases and promising therapies. International Journal of Biochemistry and Cell Biology, 2016, 81, 281-293.	1.2	147

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73	Various Aspects of Calcium Signaling in the Regulation of Apoptosis, Autophagy, Cell Proliferation, and Cancer. International Journal of Molecular Sciences, 2020, 21, 8323.	1.8	147
74	Calcium regulates cell death in cancer: Roles of the mitochondria and mitochondria-associated membranes (MAMs). Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 615-627.	0.5	146
75	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
76	Recombinant Expression of the Ca2+-sensitive Aspartate/Glutamate Carrier Increases Mitochondrial ATP Production in Agonist-stimulated Chinese Hamster Ovary Cells. Journal of Biological Chemistry, 2003, 278, 38686-38692.	1.6	138
77	Mitochondrial Ca2+-dependent NLRP3 activation exacerbates the Pseudomonas aeruginosa-driven inflammatory response in cystic fibrosis. Nature Communications, 2015, 6, 6201.	5.8	130
78	Ca2+ Fluxes and Cancer. Molecular Cell, 2020, 78, 1055-1069.	4.5	130
79	Isolation of plasma membraneâ€“associated membranes from rat liver. Nature Protocols, 2014, 9, 312-322.	5.5	129
80	PML at Mitochondria-Associated Membranes Is Critical for the Repression of Autophagy and Cancer Development. Cell Reports, 2016, 16, 2415-2427.	2.9	127
81	Recombinant aequorin and green fluorescent protein as valuable tools in the study of cell signalling. Biochemical Journal, 2001, 355, 1-12.	1.7	125
82	Extracellular ATP Causes ROCK I-dependent Bleb Formation in P2X7-transfected HEK293 Cells. Molecular Biology of the Cell, 2003, 14, 2655-2664.	0.9	124
83	Redox Control of Protein Kinase C: Cell- and Disease-Specific Aspects. Antioxidants and Redox Signaling, 2010, 13, 1051-1085.	2.5	123
84	ER functions of oncogenes and tumor suppressors: Modulators of intracellular Ca2+ signaling. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 1364-1378.	1.9	122
85	Mcl-1 involvement in mitochondrial dynamics is associated with apoptotic cell death. Molecular Biology of the Cell, 2016, 27, 20-34.	0.9	120
86	Reticulon 3â€“dependent ER-PM contact sites control EGFR nonclathrin endocytosis. Science, 2017, 356, 617-624.	6.0	118
87	The Coxsackievirus 2B Protein Suppresses Apoptotic Host Cell Responses by Manipulating Intracellular Ca2+ Homeostasis. Journal of Biological Chemistry, 2004, 279, 18440-18450.	1.6	116
88	Androgen receptor with elongated polyglutamine tract forms aggregates that alter axonal trafficking and mitochondrial distribution in motoneuronal processes. FASEB Journal, 2002, 16, 1418-1420.	0.2	113
89	Cancer metabolism and mitochondria: Finding novel mechanisms to fight tumours. EBioMedicine, 2020, 59, 102943.	2.7	110
90	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

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91	Defective autophagy is a key feature of cerebral cavernous malformations. EMBO Molecular Medicine, 2015, 7, 1403-1417.	3.3	109
92	Localization and Processing ofÂtheÂAmyloid-Î² Protein Precursor inÂMitochondria-Associated Membranes. Journal of Alzheimer's Disease, 2016, 55, 1549-1570.	1.2	107
93	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
94	The versatility of mitochondrial calcium signals: From stimulation of cell metabolism to induction of cell death. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 808-816.	0.5	106
95	KRIT1 Regulates the Homeostasis of Intracellular Reactive Oxygen Species. PLoS ONE, 2010, 5, e11786.	1.1	106
96	Germline BAP1 mutations induce a Warburg effect. Cell Death and Differentiation, 2017, 24, 1694-1704.	5.0	105
97	Emerging molecular mechanisms in chemotherapy: Ca2+ signaling at the mitochondria-associated endoplasmic reticulum membranes. Cell Death and Disease, 2018, 9, 334.	2.7	104
98	Oxidative Stress in Cardiovascular Diseases and Obesity: Role of p66Shc and Protein Kinase C. Oxidative Medicine and Cellular Longevity, 2013, 2013, 1-11.	1.9	103
99	Controlling metabolism and cell death: At the heart of mitochondrial calcium signalling. Journal of Molecular and Cellular Cardiology, 2009, 46, 781-788.	0.9	101
100	SEPN1, an endoplasmic reticulum-localized selenoprotein linked to skeletal muscle pathology, counteracts hyperoxidation by means of redox-regulating SERCA2 pump activity. Human Molecular Genetics, 2015, 24, 1843-1855.	1.4	101
101	Transglutaminase Type 2 Regulates ER-Mitochondria Contact Sites by Interacting with GRP75. Cell Reports, 2018, 25, 3573-3581.e4.	2.9	101
102	Alterations of calcium homeostasis in cancer cells. Current Opinion in Pharmacology, 2016, 29, 1-6.	1.7	99
103	Bcl-2 and Bax Exert Opposing Effects on Ca2+ Signaling, Which Do Not Depend on Their Putative Pore-forming Region. Journal of Biological Chemistry, 2004, 279, 54581-54589.	1.6	98
104	Endoplasmic reticulum, Bcl-2 and Ca2+ handling in apoptosis. Cell Calcium, 2002, 32, 413-420.	1.1	97
105	Metformin Prevents Glucose-Induced Protein Kinase C-Â2 Activation in Human Umbilical Vein Endothelial Cells Through an Antioxidant Mechanism. Diabetes, 2005, 54, 1123-1131.	0.3	97
106	Tumor necrosis factor-Î± impairs oligodendroglial differentiation through a mitochondria-dependent process. Cell Death and Differentiation, 2014, 21, 1198-1208.	5.0	97
107	Role of Mitochondria-Associated ER Membranes in Calcium Regulation in Cancer-Specific Settings. Neoplasia, 2018, 20, 510-523.	2.3	96
108	ER-mitochondria cross-talk is regulated by the Ca ²⁺ sensor NCS1 and is impaired in Wolfram syndrome. Science Signaling, 2018, 11, .	1.6	96

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109	Expression of the P2X7 Receptor Increases the Ca2+ Content of the Endoplasmic Reticulum, Activates NFATc1, and Protects from Apoptosis. Journal of Biological Chemistry, 2009, 284, 10120-10128.	1.6	95
110	Recombinant aequorin and green fluorescent protein as valuable tools in the study of cell signalling. Biochemical Journal, 2001, 355, 1.	1.7	92
111	Age-related changes in levels of p66Shc and serine 36-phosphorylated p66Shc in organs and mouse tissues. Archives of Biochemistry and Biophysics, 2009, 486, 73-80.	1.4	91
112	Mechanistic Role of mPTP in Ischemia-Reperfusion Injury. Advances in Experimental Medicine and Biology, 2017, 982, 169-189.	0.8	91
113	STAT3 localizes to the ER, acting as a gatekeeper for ER-mitochondrion Ca2+ fluxes and apoptotic responses. Cell Death and Differentiation, 2019, 26, 932-942.	5.0	89
114	The role of PML in the control of apoptotic cell fate: a new key player at ERâ€“mitochondria sites. Cell Death and Differentiation, 2011, 18, 1450-1456.	5.0	88
115	Serca1 Truncated Proteins Unable to Pump Calcium Reduce the Endoplasmic Reticulum Calcium Concentration and Induce Apoptosis. Journal of Cell Biology, 2001, 153, 1301-1314.	2.3	87
116	Dynamics of Glucose-induced Membrane Recruitment of Protein Kinase C Î²II in Living Pancreatic Islet Î²-Cells. Journal of Biological Chemistry, 2002, 277, 37702-37710.	1.6	86
117	Human aquaporin-11 guarantees efficient transport of H2O2 across the endoplasmic reticulum membrane. Redox Biology, 2020, 28, 101326.	3.9	85
118	The mitochondrial permeability transition pore is a dispensable element for mitochondrial calcium efflux. Cell Calcium, 2014, 56, 1-13.	1.1	84
119	Intravital imaging reveals p53-dependent cancer cell death induced by phototherapy via calcium signaling. Oncotarget, 2015, 6, 1435-1445.	0.8	84
120	The prolyl-isomerase Pin1 activates the mitochondrial death program of p53. Cell Death and Differentiation, 2013, 20, 198-208.	5.0	83
121	Targeted recombinant aequorins: Tools for monitoring [Ca2+] in the various compartments of a living cell. , 1999, 46, 380-389.		81
122	Physiopathology of the Permeability Transition Pore: Molecular Mechanisms in Human Pathology. Biomolecules, 2020, 10, 998.	1.8	81
123	Long-term modulation of mitochondrial Ca2+ signals by protein kinase C isozymes. Journal of Cell Biology, 2004, 165, 223-232.	2.3	79
124	Relation Between Mitochondrial Membrane Potential and ROS Formation. Methods in Molecular Biology, 2018, 1782, 357-381.	0.4	79
125	p66Shc, oxidative stress and aging: Importing a lifespan determinant into mitochondria. Cell Cycle, 2008, 7, 304-308.	1.3	78
126	A novel Ca2+-mediated cross-talk between endoplasmic reticulum and acidic organelles: Implications for NAADP-dependent Ca2+ signalling. Cell Calcium, 2015, 57, 89-100.	1.1	78

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127	Chronic pro-oxidative state and mitochondrial dysfunctions are more pronounced in fibroblasts from Down syndrome foeti with congenital heart defects. Human Molecular Genetics, 2013, 22, 1218-1232.	1.4	77
128	Aktâ€mediated phosphorylation of <scp>MICU</scp> 1 regulates mitochondrial Ca ²⁺ levels and tumor growth. EMBO Journal, 2019, 38, .	3.5	77
129	The role of mitochondria-associated membranes in cellular homeostasis and diseases. International Review of Cell and Molecular Biology, 2020, 350, 119-196.	1.6	77
130	Biosensors for the Detection of Calcium and pH. Methods in Cell Biology, 2007, 80, 297-325.	0.5	75
131	Perturbed mitochondrial Ca²⁺signals as causes or consequences of mitophagy induction. Autophagy, 2013, 9, 1677-1686.	4.3	73
132	PRKCB/protein kinase C, beta and the mitochondrial axis as key regulators of autophagy. Autophagy, 2013, 9, 1367-1385.	4.3	70
133	Metformin restores the mitochondrial network and reverses mitochondrial dysfunction in Down syndrome cells. Human Molecular Genetics, 2017, 26, ddx016.	1.4	70
134	Mitophagy in Cardiovascular Diseases. Journal of Clinical Medicine, 2020, 9, 892.	1.0	70
135	Mitochondria-Associated Membranes (MAMs) as Hotspot Ca2+ Signaling Units. Advances in Experimental Medicine and Biology, 2012, 740, 411-437.	0.8	70
136	Silencing of mitochondrial Lon protease deeply impairs mitochondrial proteome and function in colon cancer cells. FASEB Journal, 2014, 28, 5122-5135.	0.2	69
137	Constitutive IP3 signaling underlies the sensitivity of B-cell cancers to the Bcl-2/IP3 receptor disruptor BIRD-2. Cell Death and Differentiation, 2019, 26, 531-547.	5.0	69
138	Inhibitory Interaction of the 14-3-3Ïµ Protein with Isoform 4 of the Plasma Membrane Ca2+-ATPase Pump. Journal of Biological Chemistry, 2005, 280, 37195-37203.	1.6	67
139	Nanoscale particle therapies for wounds and ulcers. Nanomedicine, 2010, 5, 641-656.	1.7	66
140	Comprehensive analysis of mitochondrial permeability transition pore activity in living cells using fluorescence-imaging-based techniques. Nature Protocols, 2016, 11, 1067-1080.	5.5	66
141	Autophagy and mitophagy biomarkers are reduced in sera of patients with Alzheimerâ€™s disease and mild cognitive impairment. Scientific Reports, 2019, 9, 20009.	1.6	66
142	Oxidative stress-dependent p66Shc phosphorylation in skin fibroblasts of children with mitochondrial disorders. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 952-960.	0.5	65
143	Mitochondria in Multiple Sclerosis: Molecular Mechanisms of Pathogenesis. International Review of Cell and Molecular Biology, 2017, 328, 49-103.	1.6	65
144	Donor Age-Related Biological Properties of Human Dental Pulp Stem Cells Change in Nanostructured Scaffolds. PLoS ONE, 2012, 7, e49146.	1.1	64

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145	Regulation of Calcium Fluxes by GPX8, a Type-II Transmembrane Peroxidase Enriched at the Mitochondria-Associated Endoplasmic Reticulum Membrane. Antioxidants and Redox Signaling, 2017, 27, 583-595.	2.5	63
146	Mitochondrial Oxidative Stress and â€œMito-Inflammationâ€: Actors in the Diseases. Biomedicines, 2021, 9, 216.	1.4	63
147	Mitochondria, oxidative stress and nonalcoholic fatty liver disease: A complex relationship. European Journal of Clinical Investigation, 2022, 52, e13622.	1.7	63
148	Mitochondrial Function and Dysfunction in Dilated Cardiomyopathy. Frontiers in Cell and Developmental Biology, 2020, 8, 624216.	1.8	62
149	Aspirin delays mesothelioma growth by inhibiting HMGB1-mediated tumor progression. Cell Death and Disease, 2015, 6, e1786-e1786.	2.7	61
150	Mitochondrial Ca2+ Signaling in Health, Disease and Therapy. Cells, 2021, 10, 1317.	1.8	59
151	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
152	STAT3 can serve as a hit in the process of malignant transformation of primary cells. Cell Death and Differentiation, 2012, 19, 1390-1397.	5.0	57
153	Mutations of C19orf12, coding for a transmembrane glycine zipper containing mitochondrial protein, cause mis-localization of the protein, inability to respond to oxidative stress and increased mitochondrial Ca2+. Frontiers in Genetics, 2015, 6, 185.	1.1	57
154	Study of PTEN subcellular localization. Methods, 2015, 77-78, 92-103.	1.9	57
155	Adipose Tissue Regeneration: A State of the Art. Journal of Biomedicine and Biotechnology, 2012, 2012, 1-12.	3.0	56
156	Metformin prevents liver tumourigenesis by attenuating fibrosis in a transgenic mouse model of hepatocellular carcinoma. Oncogene, 2019, 38, 7035-7045.	2.6	55
157	H-Ras-driven tumoral maintenance is sustained through caveolin-1-dependent alterations in calcium signaling. Oncogene, 2014, 33, 2329-2340.	2.6	54
158	Intersection of mitochondrial fission and fusion machinery with apoptotic pathways: Role of Mclâ€1. Biology of the Cell, 2016, 108, 279-293.	0.7	54
159	NRIP1/RIP140 siRNA-mediated attenuation counteracts mitochondrial dysfunction in Down syndrome. Human Molecular Genetics, 2014, 23, 4406-4419.	1.4	53
160	Asbestos induces mesothelial cell transformation via HMGB1-driven autophagy. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25543-25552.	3.3	53
161	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
162	17Î²-Estradiol Enhances Signalling Mediated by VEGF-A-Delta-Like Ligand 4-Notch1 Axis in Human Endothelial Cells. PLoS ONE, 2013, 8, e71440.	1.1	52

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163	The mystery of mitochondria-ER contact sites in physiology and pathology: A cancer perspective. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165834.	1.8	51
164	In Vitro Concurrent Endothelial and Osteogenic Commitment of Adipose-Derived Stem Cells and Their Genomical Analyses Through Comparative Genomic Hybridization Array: Novel Strategies to Increase the Successful Engraftment of Tissue-Engineered Bone Grafts. Stem Cells and Development, 2012, 21, 767-777.	1.1	50
165	A Unified Nomenclature and Amino Acid Numbering for Human PTEN. Science Signaling, 2014, 7, pe15.	1.6	50
166	Peroxisomes as Novel Players in Cell Calcium Homeostasis. Journal of Biological Chemistry, 2008, 283, 15300-15308.	1.6	49
167	Regulation of Endoplasmic Reticulumâ€“Mitochondria Ca2+ Transfer and Its Importance for Anti-Cancer Therapies. Frontiers in Oncology, 2017, 7, 180.	1.3	48
168	Gelatinâ€“genipinâ€based biomaterials for skeletal muscle tissue engineering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 2763-2777.	1.6	48
169	Involvement of the P2X7-NLRP3 axis in leukemic cell proliferation and death. Scientific Reports, 2016, 6, 26280.	1.6	47
170	A role for calcium in Bcl-2 action?. Biochimie, 2002, 84, 195-201.	1.3	46
171	Amyloid-Beta Disrupts Calcium and Redox Homeostasis in Brain Endothelial Cells. Molecular Neurobiology, 2015, 51, 610-622.	1.9	46
172	PAK6 Phosphorylates 14-3-3Î³ to Regulate Steady State Phosphorylation of LRRK2. Frontiers in Molecular Neuroscience, 2017, 10, 417.	1.4	46
173	Membrane-potential compensation reveals mitochondrial volume expansion during HSC commitment. Experimental Hematology, 2018, 68, 30-37.e1.	0.2	46
174	A maladaptive ER stress response triggers dysfunction in highly active muscles of mice with SELENON loss. Redox Biology, 2019, 20, 354-366.	3.9	46
175	Mitochondrial Ca2+ homeostasis in health and disease. Biological Research, 2004, 37, 653-60.	1.5	46
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