Paolo Bernardi

List of Publications by Year in descending order

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291 papers	30,096 citations	4658 85 h-index	5120 166 g-index
328 all docs	328 docs citations	328 times ranked	24039 citing authors

#	Article	IF	Citations
1	Mitochondrial Transport of Cations: Channels, Exchangers, and Permeability Transition. Physiological Reviews, 1999, 79, 1127-1155.	28.8	1,407
2	Electron Transfer between Cytochrome c and p66Shc Generates Reactive Oxygen Species that Trigger Mitochondrial Apoptosis. Cell, 2005, 122, 221-233.	28.9	1,041
3	Dephosphorylation by calcineurin regulates translocation of Drp1 to mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15803-15808.	7.1	938
4	Dimers of mitochondrial ATP synthase form the permeability transition pore. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5887-5892.	7.1	822
5	Properties of the Permeability Transition Pore in Mitochondria Devoid of Cyclophilin D. Journal of Biological Chemistry, 2005, 280, 18558-18561.	3.4	717
6	Mitochondria and cell death. FEBS Journal, 1999, 264, 687-701.	0.2	650
7	Transient and Long-Lasting Openings of the Mitochondrial Permeability Transition Pore Can Be Monitored Directly in Intact Cells by Changes in Mitochondrial Calcein Fluorescence. Biophysical Journal, 1999, 76, 725-734.	0.5	628
8	Opening of the Mitochondrial Permeability Transition Pore Causes Depletion of Mitochondrial and Cytosolic NAD+and Is a Causative Event in the Death of Myocytes in Postischemic Reperfusion of the Heart. Journal of Biological Chemistry, 2001, 276, 2571-2575.	3.4	596
9	The mitochondrial permeability transition from in vitro artifact to disease target. FEBS Journal, 2006, 273, 2077-2099.	4.7	591
10	High concordance of drug-induced human hepatotoxicity with in vitro cytotoxicity measured in a novel cell-based model using high content screening. Archives of Toxicology, 2006, 80, 580-604.	4.2	579
11	Recent progress on regulation of the mitochondrial permeability transition pore; a cyclosporin-sensitive pore in the inner mitochondrial membrane. Journal of Bioenergetics and Biomembranes, 1994, 26, 509-517.	2.3	552
12	Mitochondria as allâ€round players of the calcium game. Journal of Physiology, 2000, 529, 37-47.	2.9	513
13	The Mitochondrial Permeability Transition Pore: Channel Formation by F-ATP Synthase, Integration in Signal Transduction, and Role in Pathophysiology. Physiological Reviews, 2015, 95, 1111-1155.	28.8	481
14	Modulation of the Mitochondrial Permeability Transition Pore by Pyridine Nucleotides and Dithiol Oxidation at Two Separate Sites. Journal of Biological Chemistry, 1996, 271, 6746-6751.	3.4	474
15	Mitochondrial dysfunction and apoptosis in myopathic mice with collagen VI deficiency. Nature Genetics, 2003, 35, 367-371.	21.4	469
16	Autophagy is defective in collagen VI muscular dystrophies, and its reactivation rescues myofiber degeneration. Nature Medicine, 2010, 16, 1313-1320.	30.7	457
17	Mitochondrial permeability transition in Ca2+-dependent apoptosis and necrosis. Cell Calcium, 2011, 50, 222-233.	2.4	455
18	The mitochondrial permeability transition pore and its involvement in cell death and in disease pathogenesis. Apoptosis: an International Journal on Programmed Cell Death, 2007, 12, 815-833.	4.9	451

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19	The permeability transition pore as a mitochondrial calcium release channel: A critical appraisal. Journal of Bioenergetics and Biomembranes, 1996, 28, 131-138.	2.3	439
20	Interactions of Cyclophilin with the Mitochondrial Inner Membrane and Regulation of the Permeability Transition Pore, a Cyclosporin A-sensitive Channel. Journal of Biological Chemistry, 1996, 271, 2185-2192.	3.4	434
21	The Mitochondrial Permeability Transition, Release of Cytochrome c and Cell Death. Journal of Biological Chemistry, 2001, 276, 12030-12034.	3.4	422
22	A p53-p66Shc signalling pathway controls intracellular redox status, levels of oxidation-damaged DNA and oxidative stress-induced apoptosis. Oncogene, 2002, 21, 3872-3878.	5.9	410
23	The mitochondrial permeability transition pore: Molecular nature and role as a target in cardioprotection. Journal of Molecular and Cellular Cardiology, 2015, 78, 100-106.	1.9	400
24	A mitochondrial perspective on cell death. Trends in Biochemical Sciences, 2001, 26, 112-117.	7.5	396
25	The permeability transition pore. Control points of a cyclosporin A-sensitive mitochondrial channel involved in cell death. Biochimica Et Biophysica Acta - Bioenergetics, 1996, 1275, 5-9.	1.0	361
26	Regulation of the Permeability Transition Pore in Skeletal Muscle Mitochondria. Journal of Biological Chemistry, 1998, 273, 12662-12668.	3.4	294
27	Mitochondria and ischemiaâ€“reperfusion injury of the heart: Fixing a hole. Cardiovascular Research, 2006, 70, 191-199.	3.8	291
28	The mitochondrial permeability transition pore: a mystery solved?. Frontiers in Physiology, 2013, 4, 95.	2.8	287
29	Arachidonic Acid Causes Cell Death through the Mitochondrial Permeability Transition. Journal of Biological Chemistry, 2001, 276, 12035-12040.	3.4	271
30	Cyclophilin D Modulates Mitochondrial F0F1-ATP Synthase by Interacting with the Lateral Stalk of the Complex. Journal of Biological Chemistry, 2009, 284, 33982-33988.	3.4	262
31	Hexokinase II Detachment from Mitochondria Triggers Apoptosis through the Permeability Transition Pore Independent of Voltage-Dependent Anion Channels. PLoS ONE, 2008, 3, e1852.	2.5	249
32	A Ubiquinone-binding Site Regulates the Mitochondrial Permeability Transition Pore. Journal of Biological Chemistry, 1998, 273, 25734-25740.	3.4	226
33	The Mitochondrial Chaperone TRAP1 Promotes Neoplastic Growth by Inhibiting Succinate Dehydrogenase. Cell Metabolism, 2013, 17, 988-999.	16.2	217
34	The Mitochondrial Permeability Transition Pore is Modulated by Oxidative Agents Through Both Pyridine Nucleotides and Glutathione at Two Separate Sites. FEBS Journal, 1996, 238, 623-630.	0.2	213
35	Activation of mitochondrial ERK protects cancer cells from death through inhibition of the permeability transition. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 726-731.	7.1	203
36	Properties of the permeability transition in VDAC1âˆ’/âˆ’ mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 590-595.	1.0	197

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37	Cyclosporin A corrects mitochondrial dysfunction and muscle apoptosis in patients with collagen VI myopathies. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5225-5229.	7.1	195
38	Regulation of the permeability transition pore, a voltage-dependent mitochondrial channel inhibited by cyclosporin A. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1187, 255-259.	1.0	193
39	Mitochondrial dysfunction in the pathogenesis of Ullrich congenital muscular dystrophy and prospective therapy with cyclosporins. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 991-996.	7.1	183
40	Cyclophilin D inactivation protects axons in experimental autoimmune encephalomyelitis, an animal model of multiple sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7558-7563.	7.1	182
41	Modulation of the mitochondrial cyclosporin A-sensitive permeability transition pore by matrix pH. Evidence that the pore open-closed probability is regulated by reversible histidine protonation. Biochemistry, 1993, 32, 4461-4465.	2.5	180
42	Ca²⁺ binding to Fâ€ATP synthase Î² subunit triggers the mitochondrial permeability transition. EMBO Reports, 2017, 18, 1065-1076.	4.5	170
43	The mitochondrial permeability transition. BioFactors, 1998, 8, 273-281.	5.4	167
44	On the Voltage Dependence of the Mitochondrial Permeability Transition Pore. Journal of Biological Chemistry, 1997, 272, 12295-12299.	3.4	165
45	Regulation of the Mitochondrial Permeability Transition Pore by the Outer Membrane Does Not Involve the Peripheral Benzodiazepine Receptor (Translocator Protein of 18 kDa (TSPO)). Journal of Biological Chemistry, 2014, 289, 13769-13781.	3.4	162
46	Cyclophilin D in mitochondrial pathophysiology. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1113-1118.	1.0	161
47	Signal transduction to the permeability transition pore. FEBS Letters, 2010, 584, 1989-1996.	2.8	158
48	Bupivacaine Myotoxicity Is Mediated by Mitochondria. Journal of Biological Chemistry, 2002, 277, 12221-12227.	3.4	154
49	Mitochondrial function as a determinant of recovery or death in cell response to injury. , 1998, 184, 379-391.		152
50	Arachidonic Acid Released by Phospholipase A2 Activation Triggers Ca2+-dependent Apoptosis through the Mitochondrial Pathway. Journal of Biological Chemistry, 2004, 279, 25219-25225.	3.4	151
51	Commitment to Apoptosis by GD3 Ganglioside Depends on Opening of the Mitochondrial Permeability Transition Pore. Journal of Biological Chemistry, 1999, 274, 22581-22585.	3.4	150
52	The permeability transition pore as a Ca2+ release channel: New answers to an old question. Cell Calcium, 2012, 52, 22-27.	2.4	150
53	Mitochondria and cardioprotection. Heart Failure Reviews, 2007, 12, 249-260.	3.9	148
54	p66Shc-generated Oxidative Signal Promotes Fat Accumulation. Journal of Biological Chemistry, 2008, 283, 34283-34293.	3.4	147

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55	Phosphate Is Essential for Inhibition of the Mitochondrial Permeability Transition Pore by Cyclosporin A and by Cyclophilin D Ablation. Journal of Biological Chemistry, 2008, 283, 26307-26311.	3.4	146
56	BMAP-28, an Antibiotic Peptide of Innate Immunity, Induces Cell Death through Opening of the Mitochondrial Permeability Transition Pore. Molecular and Cellular Biology, 2002, 22, 1926-1935.	2.3	143
57	Calcium and regulation of the mitochondrial permeability transition. Cell Calcium, 2018, 70, 56-63.	2.4	141
58	On the effects of paraquat on isolated mitochondria. Evidence that paraquat causes opening of the cyclosporin A-sensitive permeability transition pore synergistically with nitric oxide. Toxicology, 1995, 99, 77-88.	4.2	140
59	Channel Formation by Yeast F-ATP Synthase and the Role of Dimerization in the Mitochondrial Permeability Transition. Journal of Biological Chemistry, 2014, 289, 15980-15985.	3.4	139
60	Purified F-ATP synthase forms a Ca2+-dependent high-conductance channel matching the mitochondrial permeability transition pore. Nature Communications, 2019, 10, 4341.	12.8	139
61	Calcium and reactive oxygen species in regulation of the mitochondrial permeability transition and of programmed cell death in yeast. Cell Calcium, 2016, 60, 102-107.	2.4	137
62	Progress on the mitochondrial permeability transition pore: regulation by complex I and ubiquinone analogs. , 1999, 31, 335-345.		136
63	Three Classes of Ubiquinone Analogs Regulate the Mitochondrial Permeability Transition Pore through a Common Site. Journal of Biological Chemistry, 2000, 275, 29521-29527.	3.4	132
64	Mitochondrial function and myocardial aging. A critical analysis of the role of permeability transition. Cardiovascular Research, 2005, 66, 222-232.	3.8	130
65	Guidelines on experimental methods to assess mitochondrial dysfunction in cellular models of neurodegenerative diseases. Cell Death and Differentiation, 2018, 25, 542-572.	11.2	120
66	The cyclophilin inhibitor Debio 025 normalizes mitochondrial function, muscle apoptosis and ultrastructural defects in Col6a1^{â^'/â^'} myopathic mice. British Journal of Pharmacology, 2009, 157, 1045-1052.	5.4	117
67	Genetic ablation of cyclophilin D rescues mitochondrial defects and prevents muscle apoptosis in collagen VI myopathic mice. Human Molecular Genetics, 2009, 18, 2024-2031.	2.9	116
68	The mitochondrial permeability transition from yeast to mammals. FEBS Letters, 2010, 584, 2504-2509.	2.8	114
69	Developmental Shift of Cyclophilin D Contribution to Hypoxic-Ischemic Brain Injury. Journal of Neuroscience, 2009, 29, 2588-2596.	3.6	113
70	Effects of fatty acids on mitochondria: implications for cell death. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1555, 160-165.	1.0	112
71	The cristae modulator Optic atrophy 1 requires mitochondrial ATP synthase oligomers to safeguard mitochondrial function. Nature Communications, 2018, 9, 3399.	12.8	111
72	Phenylarsine oxide induces the cyclosporin A-sensitive membrane permeability transition in rat liver mitochondria. Journal of Bioenergetics and Biomembranes, 1991, 23, 679-688.	2.3	109

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73	A CaPful of mechanisms regulating the mitochondrial permeability transition. Journal of Molecular and Cellular Cardiology, 2009, 46, 775-780.	1.9	109
74	Lymphoid precursor cells adhere to two different sites on fibronectin.. Journal of Cell Biology, 1987, 105, 489-498.	5.2	108
75	The effects of idebenone on mitochondrial bioenergetics. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 363-369.	1.0	107
76	The selection between apoptosis and necrosis is differentially regulated in hydrogen peroxide-treated and glutathione-depleted human promonocytic cells. Cell Death and Differentiation, 2003, 10, 889-898.	11.2	105
77	Chloromethyltetramethylrosamine (Mitotracker OrangeTM) Induces the Mitochondrial Permeability Transition and Inhibits Respiratory Complex I. Journal of Biological Chemistry, 1999, 274, 24657-24663.	3.4	102
78	The mitochondrial permeability transition pore and cyclophilin D in cardioprotection. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 1316-1322.	4.1	98
79	From ATP to PTP and Back. Circulation Research, 2015, 116, 1850-1862.	4.5	97
80	Mitochondria and reperfusion injury. Basic Research in Cardiology, 2003, 98, 235-241.	5.9	96
81	The Voltage-dependent Anion Channel Is the Target for a New Class of Inhibitors of the Mitochondrial Permeability Transition Pore. Journal of Biological Chemistry, 2003, 278, 49812-49818.	3.4	94
82	Regulation of the Inner Membrane Mitochondrial Permeability Transition by the Outer Membrane Translocator Protein (Peripheral Benzodiazepine Receptor). Journal of Biological Chemistry, 2011, 286, 1046-1053.	3.4	94
83	Mitochondrial targeting of the p13II protein coded by the x-II ORF of human T-cell leukemia/lymphotropic virus type I (HTLV-I). Oncogene, 1999, 18, 4505-4514.	5.9	92
84	Respiratory Complex I Dysfunction Due to Mitochondrial DNA Mutations Shifts the Voltage Threshold for Opening of the Permeability Transition Pore toward Resting Levels. Journal of Biological Chemistry, 2009, 284, 2045-2052.	3.4	91
85	The unique histidine in OSCP subunit of Fâ€ATP synthase mediates inhibition of the permeability transition pore by acidic pH. EMBO Reports, 2018, 19, 257-268.	4.5	91
86	Imaging the mitochondrial permeability transition pore in intact cells. BioFactors, 1998, 8, 263-272.	5.4	88
87	UCPs â€" unlikely calcium porters. Nature Cell Biology, 2008, 10, 1235-1237.	10.3	88
88	Inhibition of complex I regulates the mitochondrial permeability transition through a phosphate-sensitive inhibitory site masked by cyclophilin D. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1628-1634.	1.0	88
89	Singlet Oxygen Produced by Photodynamic Action Causes Inactivation of the Mitochondrial Permeability Transition Pore. Journal of Biological Chemistry, 1997, 272, 21938-21943.	3.4	87
90	Shedding light on the mitochondrial permeability transition. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 482-490.	1.0	87

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91	Snake Phospholipase A2 Neurotoxins Enter Neurons, Bind Specifically to Mitochondria, and Open Their Transition Pores. Journal of Biological Chemistry, 2008, 283, 34013-34020.	3.4	86
92	Selective inhibition of the mitochondrial permeability transition pore at the oxidation-reduction sensitive dithiol by monobromobimane. FEBS Letters, 1995, 362, 239-242.	2.8	85
93	Acidosis Promotes the Permeability Transition in Energized Mitochondria: Implications for Reperfusion Injury. Journal of Neurotrauma, 2001, 18, 1059-1074.	3.4	85
94	Induction of the mitochondrial permeability transition by N-ethylmaleimide depends on secondary oxidation of critical thiol groups. Potentiation by copper-ortho-phenanthroline without dimerization of the adenine nucleotide translocase. Biochimica Et Biophysica Acta - Bioenergetics, 1998, 1365, 385-392.	1.0	82
95	Regulation of the Mitochondrial Permeability Transition Pore by Ubiquinone Analogs. A Progress Report. Free Radical Research, 2002, 36, 405-412.	3.3	82
96	Absence of Neurofibromin Induces an Oncogenic Metabolic Switch via Mitochondrial ERK-Mediated Phosphorylation of the Chaperone TRAP1. Cell Reports, 2017, 18, 659-672.	6.4	81
97	Regulation of Ca2+ Efflux in Rat Liver Mitochondria. Role of Membrane Potential. FEBS Journal, 1983, 134, 377-383.	0.2	79
98	Mitochondrial energy dissipation by fatty acids. Vitamins and Hormones, 2002, 65, 97-126.	1.7	78
99	The mitochondrial permeability transition pore and its adaptive responses in tumor cells. Cell Calcium, 2014, 56, 437-445.	2.4	78
100	Electroneutral H+-K+ exchange in liver mitochondria Regulation by membrane potential. Biochimica Et Biophysica Acta - Bioenergetics, 1983, 724, 212-223.	1.0	77
101	Activation of the mitochondrial permeability transition pore modulates Ca2+ responses to physiological stimuli in adult neurons. European Journal of Neuroscience, 2011, 33, 831-842.	2.6	77
102	The mitochondrial permeability transition: Recent progress and open questions. FEBS Journal, 2022, 289, 7051-7074.	4.7	77
103	Genetic Dissection of the Permeability Transition Pore. Journal of Bioenergetics and Biomembranes, 2005, 37, 121-128.	2.3	76
104	Inhibition of succinate dehydrogenase by the mitochondrial chaperone TRAP1 has anti-oxidant and anti-apoptotic effects on tumor cells. Oncotarget, 2014, 5, 11897-11908.	1.8	73
105	Silencing of mitochondrial Lon protease deeply impairs mitochondrial proteome and function in colon cancer cells. FASEB Journal, 2014, 28, 5122-5135.	0.5	69
106	Mitochondrial deoxynucleotide pool sizes in mouse liver and evidence for a transport mechanism for thymidine monophosphate. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18586-18591.	7.1	67
107	Mitochondrial Alterations Induced by the p13II Protein of Human T-cell Leukemia Virus Type 1. Journal of Biological Chemistry, 2002, 277, 34424-34433.	3.4	65
108	Mitochondrial Dysfunction and Defective Autophagy in the Pathogenesis of Collagen VI Muscular Dystrophies. Cold Spring Harbor Perspectives in Biology, 2013, 5, a011387-a011387.	5.5	64

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109	NIM811, a cyclophilin inhibitor without immunosuppressive activity, is beneficial in collagen VI congenital muscular dystrophy models. Human Molecular Genetics, 2014, 23, 5353-5363.	2.9	64
110	F-ATPase of Drosophila melanogaster Forms 53-Picosiemen (53-pS) Channels Responsible for Mitochondrial Ca2+-induced Ca2+ Release. Journal of Biological Chemistry, 2015, 290, 4537-4544.	3.4	64
111	Dysfunction of Mitochondria and Sarcoplasmic Reticulum in the Pathogenesis of Collagen VI Muscular Dystrophies. Annals of the New York Academy of Sciences, 2008, 1147, 303-311.	3.8	63
112	Cyclophilin D-mediated regulation of the permeability transition pore is altered in mice lacking the mitochondrial calcium uniporter. Cardiovascular Research, 2019, 115, 385-394.	3.8	63
113	The Mitochondrial Effects of Small Organic Ligands of BCL-2. Journal of Biological Chemistry, 2006, 281, 10066-10072.	3.4	62
114	Pathophysiology of mitochondrial volume homeostasis: Potassium transport and permeability transition. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 345-350.	1.0	62
115	Chemotherapeutic induction of mitochondrial oxidative stress activates GSK-3Î±/Î² and Bax, leading to permeability transition pore opening and tumor cell death. Cell Death and Disease, 2012, 3, e444-e444.	6.3	62
116	Hexokinase 2 displacement from mitochondriaâ€associated membranes prompts Ca ²⁺ â€dependent death of cancer cells. EMBO Reports, 2020, 21, e49117.	4.5	62
117	Desensitization of the Permeability Transition Pore by Cyclosporin A Prevents Activation of the Mitochondrial Apoptotic Pathway and Liver Damage by Tumor Necrosis Factor-Î±. Journal of Biological Chemistry, 2004, 279, 36803-36808.	3.4	61
118	The Pathophysiology of LETM1. Journal of General Physiology, 2012, 139, 445-454.	1.9	61
119	Cinnamic Anilides as New Mitochondrial Permeability Transition Pore Inhibitors Endowed with Ischemia-Reperfusion Injury Protective Effect in Vivo. Journal of Medicinal Chemistry, 2014, 57, 5333-5347.	6.4	60
120	Pathway for uncoupler-induced calcium efflux in rat liver mitochondria: inhibition by Ruthenium Red. Biochemistry, 1984, 23, 1645-1651.	2.5	58
121	Two modes of activation of the permeability transition pore: The role of mitochondrial cyclophilin. Molecular and Cellular Biochemistry, 1997, 174, 181-184.	3.1	57
122	Early resistance to cell death and to onset of the mitochondrial permeability transition during hepatocarcinogenesis with 2-acetylaminofluorene. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10014-10019.	7.1	57
123	High-Conductance Channel Formation in Yeast Mitochondria is Mediated by F-ATP Synthase e and g Subunits. Cellular Physiology and Biochemistry, 2018, 50, 1840-1855.	1.6	57
124	SERPINB3 protects from oxidative damage by chemotherapeutics through inhibition of mitochondrial respiratory complex I. Oncotarget, 2014, 5, 2418-2427.	1.8	57
125	Peptide-based carbon nanotubes for mitochondrial targeting. Nanoscale, 2013, 5, 9110.	5.6	56
126	Transcriptomic Analysis of Single Isolated Myofibers Identifies miR-27a-3p and miR-142-3p as Regulators of Metabolism in Skeletal Muscle. Cell Reports, 2019, 26, 3784-3797.e8.	6.4	55

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127	Mitochondria as Functional Targets of Proteins Coded by Human Tumor Viruses. Advances in Cancer Research, 2005, 94, 87-142.	5.0	54
128	Interaction of mitochondrial fission factor with dynamin related protein 1 governs physiological mitochondrial function in vivo. Scientific Reports, 2018, 8, 14034.	3.3	54
129	Molecular nature and regulation of the mitochondrial permeability transition pore(s), drug target(s) in cardioprotection. Journal of Molecular and Cellular Cardiology, 2020, 144, 76-86.	1.9	54
130	Manganese stimulates calcium flux through the mitochondrial uniporter. Biochimica Et Biophysica Acta - Bioenergetics, 1985, 807, 202-209.	1.0	53
131	Mitochondria Are Direct Targets of the Lipoxygenase Inhibitor MK886. Journal of Biological Chemistry, 2002, 277, 31789-31795.	3.4	53
132	Properties of Ca2+ Transport in Mitochondria of Drosophila melanogaster. Journal of Biological Chemistry, 2011, 286, 41163-41170.	3.4	53
133	Defining the molecular mechanisms of the mitochondrial permeability transition through genetic manipulation of F-ATP synthase. Nature Communications, 2021, 12, 4835.	12.8	52
134	Cyclosporine A in Ullrich Congenital Muscular Dystrophy: Long-Term Results. Oxidative Medicine and Cellular Longevity, 2011, 2011, 1-10.	4.0	51
135	Induction of the permeability transition pore in cells depleted of mitochondrial DNA. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1860-1866.	1.0	51
136	Myotonic dystrophy protein kinase (DMPK) prevents ROS-induced cell death by assembling a hexokinase II-Src complex on the mitochondrial surface. Cell Death and Disease, 2013, 4, e858-e858.	6.3	51
137	Reduced mitochondrial Ca2+ transients stimulate autophagy in human fibroblasts carrying the 13514A>G mutation of the ND5 subunit of NADH dehydrogenase. Cell Death and Differentiation, 2016, 23, 231-241.	11.2	51
138	Alisporivir rescues defective mitochondrial respiration in Duchenne muscular dystrophy. Pharmacological Research, 2017, 125, 122-131.	7.1	51
139	Tissue-specific modulation of the mitochondrial calcium uniporter by magnesium ions. FEBS Letters, 1985, 183, 260-264.	2.8	50
140	Enhancement of anxiety, facilitation of avoidance behavior, and occurrence of adult-onset obesity in mice lacking mitochondrial cyclophilin D. Neuroscience, 2008, 155, 585-596.	2.3	50
141	Fâ€‹scp›ATP‹/scp› synthase and the permeability transition pore: fewer doubts, more certainties. FEBS Letters, 2019, 593, 1542-1553.	2.8	49
142	Mitochondrial ion channels as targets for cardioprotection. Journal of Cellular and Molecular Medicine, 2020, 24, 7102-7114.	3.6	48
143	Mitochondria-targeted Resveratrol Derivatives Act as Cytotoxic Pro-oxidants. Current Pharmaceutical Design, 2014, 20, 172-179.	1.9	47
144	A membrane potential-modulated pathway for Ca2+ efflux in rat liver mitochondria. FEBS Letters, 1982, 139, 13-16.	2.8	46

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145	Yessotoxin, a shellfish biotoxin, is a potent inducer of the permeability transition in isolated mitochondria and intact cells. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1656, 139-147.	1.0	46
146	p66SHC promotes T cell apoptosis by inducing mitochondrial dysfunction and impaired Ca2+ homeostasis. Cell Death and Differentiation, 2007, 14, 338-347.	11.2	46
147	Therapy of Collagen VI-Related Myopathies (Bethlem and Ullrich). Neurotherapeutics, 2008, 5, 613-618.	4.4	46
148	Chemical Modification of Arginines by 2,3-Butanedione and Phenylglyoxal Causes Closure of the Mitochondrial Permeability Transition Pore. Journal of Biological Chemistry, 1998, 273, 12669-12674.	3.4	44
149	Antamanide, a Derivative of Amanita phalloides, Is a Novel Inhibitor of the Mitochondrial Permeability Transition Pore. PLoS ONE, 2011, 6, e16280.	2.5	44
150	p66Shc, Mitochondria, and the Generation of Reactive Oxygen Species. Methods in Enzymology, 2013, 528, 99-110.	1.0	44
151	The Oligomycin-Sensitivity Conferring Protein of Mitochondrial ATP Synthase: Emerging New Roles in Mitochondrial Pathophysiology. International Journal of Molecular Sciences, 2014, 15, 7513-7536.	4.1	44
152	Modulation of mitochondrial K+ permeability and reactive oxygen species production by the p13 protein of human T-cell leukemia virus type 1. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 947-954.	1.0	43
153	Monoamine oxidase inhibition prevents mitochondrial dysfunction and apoptosis in myoblasts from patients with collagen VI myopathies. Free Radical Biology and Medicine, 2014, 75, 40-47.	2.9	42
154	Dopamine Oxidation Products as Mitochondrial Endotoxins, a Potential Molecular Mechanism for Preferential Neurodegeneration in Parkinsonâ€™s Disease. ACS Chemical Neuroscience, 2018, 9, 2849-2858.	3.5	42
155	Mitochondrial function as a determinant of recovery or death in cell response to injury. , 1998, , 379-391.		42
156	Discovery, Synthesis, and Optimization of Diarylisoxazoleâ€3â€carboxamides as Potent Inhibitors of the Mitochondrial Permeability Transition Pore. ChemMedChem, 2015, 10, 1655-1671.	3.2	41
157	Why F-ATP Synthase Remains a Strong Candidate as the Mitochondrial Permeability Transition Pore. Frontiers in Physiology, 2018, 9, 1543.	2.8	41
158	Arginine 107 of yeast ATP synthase subunit g mediates sensitivity of the mitochondrial permeability transition to phenylglyoxal. Journal of Biological Chemistry, 2018, 293, 14632-14645.	3.4	40
159	LETM1 in mitochondrial cation transport. Frontiers in Physiology, 2014, 5, 83.	2.8	38
160	Switch from inhibition to activation of the mitochondrial permeability transition during hematoporphyrin-mediated photooxidative stress.. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 897-904.	1.0	37
161	Implications of the generation of reactive oxygen species by photoactivated calcein for mitochondrial studies. FEBS Journal, 2000, 267, 5585-5592.	0.2	36
162	Novel Mitochondrial Creatine Transport Activity. Journal of Biological Chemistry, 2002, 277, 37503-37511.	3.4	36

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163	The permeability transition and BCL-2 family proteins in apoptosis: co-conspirators or independent agents?. Cell Death and Differentiation, 2006, 13, 1287-1290.	11.2	36
164	The Unique Cysteine of F-ATP Synthase OSCP Subunit Participates in Modulation of the Permeability Transition Pore. Cell Reports, 2020, 32, 108095.	6.4	35
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