

# Dmitry B Zorov

## List of Publications by Citations

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179  
papers

11,559  
citations

44  
h-index

105  
g-index

207  
ext. papers

13,869  
ext. citations

4.3  
avg, IF

6.29  
L-index

#	Paper	IF	Citations
179	Mitochondrial reactive oxygen species (ROS) and ROS-induced ROS release. <i>Physiological Reviews</i> , <b>2014</b> , 94, 909-50	47.9	1961
178	Reactive oxygen species (ROS)-induced ROS release: a new phenomenon accompanying induction of the mitochondrial permeability transition in cardiac myocytes. <i>Journal of Experimental Medicine</i> , <b>2000</b> , 192, 1001-14	16.6	1109
177	Mitochondrial ROS-induced ROS release: an update and review. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2006</b> , 1757, 509-17	4.6	754
176	Glycogen synthase kinase-3beta mediates convergence of protection signaling to inhibit the mitochondrial permeability transition pore. <i>Journal of Clinical Investigation</i> , <b>2004</b> , 113, 1535-49	15.9	741
175	Mitochondrial membrane potential. <i>Analytical Biochemistry</i> , <b>2018</b> , 552, 50-59	3.1	622
174	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). <i>Autophagy</i> , <b>2021</b> , 17, 1-382	10.2	440
173	An attempt to prevent senescence: a mitochondrial approach. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2009</b> , 1787, 437-61	4.6	304
172	Role of glycogen synthase kinase-3beta in cardioprotection. <i>Circulation Research</i> , <b>2009</b> , 104, 1240-52	15.7	286
171	Kindling fluorescent proteins for precise in vivo photolabeling. <i>Nature Biotechnology</i> , <b>2003</b> , 21, 191-4	44.5	278
170	Coupling membranes as energy-transmitting cables. I. Filamentous mitochondria in fibroblasts and mitochondrial clusters in cardiomyocytes. <i>Journal of Cell Biology</i> , <b>1988</b> , 107, 481-95	7.3	230
169	Mitochondrial benzodiazepine receptor linked to inner membrane ion channels by nanomolar actions of ligands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1993</b> , 90, 1374-8	11.5	188
168	Regulation and pharmacology of the mitochondrial permeability transition pore. <i>Cardiovascular Research</i> , <b>2009</b> , 83, 213-25	9.9	177
167	Cell-to-cell cross-talk between mesenchymal stem cells and cardiomyocytes in co-culture. <i>Journal of Cellular and Molecular Medicine</i> , <b>2008</b> , 12, 1622-31	5.6	161
166	The role of mitochondria in oxidative and nitrosative stress during ischemia/reperfusion in the rat kidney. <i>Kidney International</i> , <b>2007</b> , 72, 1493-502	9.9	148
165	Role of mitochondrial calcium transport in the control of substrate oxidation <b>1998</b> , 184, 359-369		139
164	Mitochondria-targeted plastoquinone derivatives as tools to interrupt execution of the aging program. 2. Treatment of some ROS- and age-related diseases (heart arrhythmia, heart infarctions, kidney ischemia, and stroke). <i>Biochemistry (Moscow)</i> , <b>2008</b> , 73, 1288-99	2.9	124
163	Mitochondrial-targeted plastoquinone derivatives. Effect on senescence and acute age-related pathologies. <i>Current Drug Targets</i> , <b>2011</b> , 12, 800-26	3	122

162	Thread-grain transition of mitochondrial reticulum as a step of mitoptosis and apoptosis. <i>Molecular and Cellular Biochemistry</i> , <b>2004</b> , 256-257, 341-58	4.2	122
161	Mitochondrial contact sites: their role in energy metabolism and apoptosis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2006</b> , 1762, 148-63	6.9	114
160	Cytoplasm and organelle transfer between mesenchymal multipotent stromal cells and renal tubular cells in co-culture. <i>Experimental Cell Research</i> , <b>2010</b> , 316, 2447-55	4.2	112
159	The identity and regulation of the mitochondrial permeability transition pore: where the known meets the unknown. <i>Annals of the New York Academy of Sciences</i> , <b>2008</b> , 1123, 197-212	6.5	108
158	Protection in the aged heart: preventing the heart-break of old age?. <i>Cardiovascular Research</i> , <b>2005</b> , 66, 233-44	9.9	105
157	Mechanisms of nephroprotective effect of mitochondria-targeted antioxidants under rhabdomyolysis and ischemia/reperfusion. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2011</b> , 1812, 77-86	6.9	90
156	Modulation of inner mitochondrial membrane channel activity. <i>Journal of Bioenergetics and Biomembranes</i> , <b>1992</b> , 24, 99-110	3.7	89
155	Calcium modulation of mitochondrial inner membrane channel activity. <i>Biochemical and Biophysical Research Communications</i> , <b>1991</b> , 176, 1183-8	3.4	84
154	Myoglobin causes oxidative stress, increase of NO production and dysfunction of kidney's mitochondria. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2009</b> , 1792, 796-803	6.9	78
153	Mitochondria revisited. Alternative functions of mitochondria. <i>Bioscience Reports</i> , <b>1997</b> , 17, 507-20	4.1	75
152	Voltage activation of heart inner mitochondrial membrane channels. <i>Journal of Bioenergetics and Biomembranes</i> , <b>1992</b> , 24, 119-24	3.7	75
151	Neurotoxic glutamate treatment of cultured cerebellar granule cells induces Ca <sup>2+</sup> -dependent collapse of mitochondrial membrane potential and ultrastructural alterations of mitochondria. <i>FEBS Letters</i> , <b>1996</b> , 392, 143-7	3.8	74
150	Adenine nucleotide translocator isoforms 1 and 2 are differently distributed in the mitochondrial inner membrane and have distinct affinities to cyclophilin D. <i>Biochemical Journal</i> , <b>2001</b> , 358, 349-358	3.8	73
149	Miro1 Enhances Mitochondria Transfer from Multipotent Mesenchymal Stem Cells (MMSC) to Neural Cells and Improves the Efficacy of Cell Recovery. <i>Molecules</i> , <b>2018</b> , 23,	4.8	72
148	Protective effect of mitochondria-targeted antioxidants in an acute bacterial infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E3100-8	11.5	63
147	Improving the Post-Stroke Therapeutic Potency of Mesenchymal Multipotent Stromal Cells by Cocultivation With Cortical Neurons: The Role of Crosstalk Between Cells. <i>Stem Cells Translational Medicine</i> , <b>2015</b> , 4, 1011-20	6.9	62
146	Examining intracellular organelle function using fluorescent probes: from animalcules to quantum dots. <i>Circulation Research</i> , <b>2004</b> , 95, 239-52	15.7	62
145	Effect of MSCs and MSC-Derived Extracellular Vesicles on Human Blood Coagulation. <i>Cells</i> , <b>2019</b> , 8,	7.9	54

144	Adenine nucleotide translocator isoforms 1 and 2 are differently distributed in the mitochondrial inner membrane and have distinct affinities to cyclophilin D. <i>Biochemical Journal</i> , <b>2001</b> , 358, 349-58	3.8	53
143	Inhibition of Na(+),K(+)-ATPase activity in cultured rat cerebellar granule cells prevents the onset of apoptosis induced by low potassium. <i>Neuroscience Letters</i> , <b>2000</b> , 283, 41-4	3.3	53
142	Matching ATP supply and demand in mammalian heart: in vivo, in vitro, and in silico perspectives. <i>Annals of the New York Academy of Sciences</i> , <b>2010</b> , 1188, 133-42	6.5	48
141	Mitochondrial damage as a source of diseases and aging: a strategy of how to fight these. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1996</b> , 1275, 10-5	4.6	48
140	Mild uncoupling of respiration and phosphorylation as a mechanism providing nephro- and neuroprotective effects of penetrating cations of the SkQ family. <i>Biochemistry (Moscow)</i> , <b>2012</b> , 77, 1029-37	2.9	47
139	Bax releases cytochrome c preferentially from a complex between porin and adenine nucleotide translocator. Hexokinase activity suppresses this effect. <i>Molecular Biology Reports</i> , <b>2002</b> , 29, 93-6	2.8	46
138	Reactive oxygen and nitrogen species: friends or foes?. <i>Biochemistry (Moscow)</i> , <b>2005</b> , 70, 215-21	2.9	46
137	Diazepam inhibits cell respiration and induces fragmentation of mitochondrial reticulum. <i>FEBS Letters</i> , <b>1983</b> , 163, 311-4	3.8	45
136	New-generation Skulachev ions exhibiting nephroprotective and neuroprotective properties. <i>Biochemistry (Moscow)</i> , <b>2010</b> , 75, 145-50	2.9	44
135	Interrelations of mitochondrial fragmentation and cell death under ischemia/reoxygenation and UV-irradiation: protective effects of SkQ1, lithium ions and insulin. <i>FEBS Letters</i> , <b>2008</b> , 582, 3117-24	3.8	44
134	The mitochondrion as janus bifrons. <i>Biochemistry (Moscow)</i> , <b>2007</b> , 72, 1115-26	2.9	41
133	Effect of ADP/ATP antiporter conformational state on the suppression of the nonspecific permeability of the inner mitochondrial membrane by cyclosporine A. <i>FEBS Letters</i> , <b>1990</b> , 277, 123-6	3.8	40
132	Neuroprotective Effects of Mitochondria-Targeted Plastoquinone and Thymoquinone in a Rat Model of Brain Ischemia/Reperfusion Injury. <i>Molecules</i> , <b>2015</b> , 20, 14487-503	4.8	39
131	The intra-mitochondrial cytochrome c distribution varies correlated to the formation of a complex between VDAC and the adenine nucleotide translocase: this affects Bax-dependent cytochrome c release. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2004</b> , 1644, 27-36	4.9	39
130	Neuroprotective effects of the antifungal drug clotrimazole. <i>Neuroscience</i> , <b>2002</b> , 113, 47-53	3.9	39
129	The mitochondria-targeted antioxidants and remote kidney preconditioning ameliorate brain damage through kidney-to-brain cross-talk. <i>PLoS ONE</i> , <b>2012</b> , 7, e51553	3.7	38
128	Multiple conductance levels in rat heart inner mitochondrial membranes studied by patch clamping. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1992</b> , 1105, 263-70	3.8	37
127	Lessons from the Discovery of Mitochondrial Fragmentation (Fission): A Review and Update. <i>Cells</i> , <b>2019</b> , 8,	7.9	34

126	The mitochondrion as a key regulator of ischaemic tolerance and injury. <i>Heart Lung and Circulation</i> , <b>2014</b> , 23, 897-904	1.8	33
125	Amelioration of aminoglycoside nephrotoxicity requires protection of renal mitochondria. <i>Kidney International</i> , <b>2010</b> , 77, 841-3	9.9	33
124	A mitochondria-targeted protonophoric uncoupler derived from fluorescein. <i>Chemical Communications</i> , <b>2014</b> , 50, 15366-9	5.8	32
123	Peak intensity analysis as a method for estimation of fluorescent probe binding to artificial and natural nanoparticles: tetramethylrhodamine uptake by isolated mitochondria. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2008</b> , 1778, 2182-90	3.8	32
122	Mitochondria-targeted plastoquinone antioxidant SkQR1 decreases trauma-induced neurological deficit in rat. <i>Biochemistry (Moscow)</i> , <b>2012</b> , 77, 996-9	2.9	29
121	Analysis of mitochondrial 3D-deformation in cardiomyocytes during active contraction reveals passive structural anisotropy of orthogonal short axes. <i>PLoS ONE</i> , <b>2011</b> , 6, e21985	3.7	29
120	A short-chain alkyl derivative of Rhodamine 19 acts as a mild uncoupler of mitochondria and a neuroprotector. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2014</b> , 1837, 1739-47	4.6	28
119	Mitochondria-targeted antioxidant SkQR1 ameliorates gentamycin-induced renal failure and hearing loss. <i>Biochemistry (Moscow)</i> , <b>2012</b> , 77, 666-70	2.9	28
118	Role of acidosis, NMDA receptors, and acid-sensitive ion channel 1a (ASIC1a) in neuronal death induced by ischemia. <i>Biochemistry (Moscow)</i> , <b>2008</b> , 73, 1171-5	2.9	28
117	Mitochondrial Damage and Mitochondria-Targeted Antioxidant Protection in LPS-Induced Acute Kidney Injury. <i>Antioxidants</i> , <b>2019</b> , 8,	7.1	27
116	The age-associated loss of ischemic preconditioning in the kidney is accompanied by mitochondrial dysfunction, increased protein acetylation and decreased autophagy. <i>Scientific Reports</i> , <b>2017</b> , 7, 44430	4.9	26
115	In vivo injected mitochondria-targeted plastoquinone antioxidant SkQR1 prevents amyloid-induced decay of long-term potentiation in rat hippocampal slices. <i>Biochemistry (Moscow)</i> , <b>2011</b> , 76, 1367-70	2.9	26
114	Comparative kinetic analysis reveals that inducer-specific ion release precedes the mitochondrial permeability transition. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2005</b> , 1708, 375-92	4.6	26
113	Comparative evaluation of two methods for studies of experimental focal ischemia: magnetic resonance tomography and triphenyltetrazoleum detection of brain injuries. <i>Bulletin of Experimental Biology and Medicine</i> , <b>2009</b> , 147, 269-72	0.8	25
112	Immunoelectron microscopic study of the distribution of porin on outer membranes of rat heart mitochondria. <i>Journal of Bioenergetics and Biomembranes</i> , <b>1995</b> , 27, 93-9	3.7	25
111	A long-linker conjugate of fluorescein and triphenylphosphonium as mitochondria-targeted uncoupler and fluorescent neuro- and nephroprotector. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2016</b> , 1860, 2463-2473	4	25
110	Neuroprotective Effects of Mitochondria-Targeted Plastoquinone in a Rat Model of Neonatal Hypoxic/Ischemic Brain Injury. <i>Molecules</i> , <b>2018</b> , 23,	4.8	24
109	Nephroprotective effect of GSK-3 inhibition by lithium ions and opioid receptor agonist dalargin on gentamicin-induced nephrotoxicity. <i>Toxicology Letters</i> , <b>2013</b> , 220, 303-8	4.4	24

108	Mitochondrial free radical production induced by glucose deprivation in cerebellar granule neurons. <i>Biochemistry (Moscow)</i> , <b>2008</b> , 73, 149-55	2.9	24
107	Microbiota and mitobiota. Putting an equal sign between mitochondria and bacteria. <i>Biochemistry (Moscow)</i> , <b>2014</b> , 79, 1017-31	2.9	23
106	Mitochondria-targeted plastoquinone antioxidant SkQ1 prevents amyloid- $\beta$ -induced impairment of long-term potentiation in rat hippocampal slices. <i>Journal of Alzheimer's Disease</i> , <b>2013</b> , 36, 377-83	4.3	23
105	Short-term block of Na <sup>+</sup> /K <sup>+</sup> -ATPase in neuro-glial cell cultures of cerebellum induces glutamate dependent damage of granule cells. <i>FEBS Letters</i> , <b>1999</b> , 456, 41-4	3.8	22
104	Mechanisms of LPS-Induced Acute Kidney Injury in Neonatal and Adult Rats. <i>Antioxidants</i> , <b>2018</b> , 7,	7.1	21
103	Lithium salts -- simple but magic. <i>Biochemistry (Moscow)</i> , <b>2014</b> , 79, 740-9	2.9	21
102	The phenoptosis problem: what is causing the death of an organism? Lessons from acute kidney injury. <i>Biochemistry (Moscow)</i> , <b>2012</b> , 77, 742-53	2.9	21
101	Menadione reduces rotenone-induced cell death in cerebellar granule neurons. <i>NeuroReport</i> , <b>2004</b> , 15, 2227-31	1.7	21
100	Neuroprotective effect of glutamate-substituted analog of gramicidin A is mediated by the uncoupling of mitochondria. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2014</b> , 1840, 3434-42	4	20
99	Effect of cyclosporine A and oligomycin on non-specific permeability of the inner mitochondrial membrane. <i>FEBS Letters</i> , <b>1990</b> , 270, 108-10	3.8	20
98	Mitochondria as a Source and a Target for Uremic Toxins. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	19
97	Kidney Cells Regeneration: Dedifferentiation of Tubular Epithelium, Resident Stem Cells and Possible Niches for Renal Progenitors. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	19
96	Magnetic resonance spectroscopy of the ischemic brain under lithium treatment. Link to mitochondrial disorders under stroke. <i>Chemico-Biological Interactions</i> , <b>2015</b> , 237, 175-82	5	18
95	Hexokinase inhibits flux of fluorescently labeled ATP through mitochondrial outer membrane porin. <i>FEBS Letters</i> , <b>2010</b> , 584, 2397-402	3.8	18
94	Paraquat potentiates glutamate toxicity in immature cultures of cerebellar granule neurons. <i>Toxicology Letters</i> , <b>2007</b> , 174, 82-8	4.4	18
93	Safranin O as a fluorescent probe for mitochondrial membrane potential studied on the single particle level and in suspension. <i>Biochemistry (Moscow)</i> , <b>2009</b> , 74, 663-71	2.9	17
92	Cellular mechanisms of brain hypoglycemia. <i>Biochemistry (Moscow)</i> , <b>2007</b> , 72, 471-8	2.9	17
91	Coupling membranes as energy-transmitting cables. II. Cyanobacterial trichomes. <i>Journal of Cell Biology</i> , <b>1988</b> , 107, 497-501	7.3	17

90	Dysfunction of Kidney Endothelium after Ischemia/Reperfusion and Its Prevention by Mitochondria-Targeted Antioxidant. <i>Biochemistry (Moscow)</i> , <b>2016</b> , 81, 1538-1548	2.9	17
89	Intercellular Signalling Cross-Talk: To Kill, To Heal and To Rejuvenate. <i>Heart Lung and Circulation</i> , <b>2017</b> , 26, 648-659	1.8	16
88	Intercellular Transfer of Mitochondria. <i>Biochemistry (Moscow)</i> , <b>2015</b> , 80, 542-8	2.9	16
87	Functional Significance of the Mitochondrial Membrane Potential. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , <b>2018</b> , 12, 20-26	0.7	16
86	The role of myoglobin degradation in nephrotoxicity after rhabdomyolysis. <i>Chemico-Biological Interactions</i> , <b>2016</b> , 256, 64-70	5	16
85	Perspectives of mitochondrial medicine. <i>Biochemistry (Moscow)</i> , <b>2013</b> , 78, 979-90	2.9	16
84	Effect of transitory glucose deprivation on mitochondrial structure and functions in cultured cerebellar granule neurons. <i>Neuroscience Letters</i> , <b>2009</b> , 461, 140-4	3.3	16
83	Pregnancy protects the kidney from acute ischemic injury. <i>Scientific Reports</i> , <b>2018</b> , 8, 14534	4.9	16
82	N-terminally glutamate-substituted analogue of gramicidin A as protonophore and selective mitochondrial uncoupler. <i>PLoS ONE</i> , <b>2012</b> , 7, e41919	3.7	15
81	Inflammatory pre-conditioning of mesenchymal multipotent stromal cells improves their immunomodulatory potency in acute pyelonephritis in rats. <i>Cytotherapy</i> , <b>2013</b> , 15, 679-89	4.8	14
80	Acidosis-induced zinc-dependent death of cultured cerebellar granule neurons. <i>Cellular and Molecular Neurobiology</i> , <b>2010</b> , 30, 877-83	4.6	14
79	The Ca <sup>2+</sup> -induced pore opening in mitochondria energized by succinate-ferricyanide electron transport. <i>FEBS Letters</i> , <b>1997</b> , 419, 137-40	3.8	13
78	The permeability transition pore induced under anaerobic conditions in mitochondria energized with ATP. <i>FEBS Letters</i> , <b>1998</b> , 434, 313-6	3.8	13
77	Intra-Arterial Administration of Multipotent Mesenchymal Stromal Cells Promotes Functional Recovery of the Brain After Traumatic Brain Injury. <i>Bulletin of Experimental Biology and Medicine</i> , <b>2015</b> , 159, 528-33	0.8	12
76	Mitochondrial Aging: Is There a Mitochondrial Clock?. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2017</b> , 72, 1171-1179	6.4	12
75	Microbiome-Metabolome Signature of Acute Kidney Injury. <i>Metabolites</i> , <b>2020</b> , 10,	5.6	12
74	Aged kidney: can we protect it? Autophagy, mitochondria and mechanisms of ischemic preconditioning. <i>Cell Cycle</i> , <b>2018</b> , 17, 1291-1309	4.7	12
73	Glutamine-mediated protection from neuronal cell death depends on mitochondrial activity. <i>Neuroscience Letters</i> , <b>2010</b> , 482, 151-5	3.3	11

72	Effect of Silk Fibroin on Neuroregeneration After Traumatic Brain Injury. <i>Neurochemical Research</i> , <b>2019</b> , 44, 2261-2272	4.6	11
71	Mitochondrial Ca, redox environment and ROS emission in heart failure: Two sides of the same coin?. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2021</b> , 151, 113-125	5.8	11
70	Mitodiversity. <i>Biochemistry (Moscow)</i> , <b>2015</b> , 80, 532-41	2.9	10
69	Zwitterionic Protonophore Derived from 2-(2-Hydroxyaryl)alkenylphosphonium as an Uncoupler of Oxidative Phosphorylation. <i>Bioconjugate Chemistry</i> , <b>2019</b> , 30, 2435-2443	6.3	10
68	The role of oxidative stress in acute renal injury of newborn rats exposed to hypoxia and endotoxin. <i>FEBS Journal</i> , <b>2017</b> , 284, 3069-3078	5.7	10
67	Stimulation of kainate toxicity by zinc in cultured cerebellar granule neurons and the role of mitochondria in this process. <i>Toxicology Letters</i> , <b>2012</b> , 208, 36-40	4.4	10
66	Role of mitochondria in the mechanisms of glutamate toxicity. <i>Biochemistry (Moscow)</i> , <b>2005</b> , 70, 611-8	2.9	10
65	Mechanisms of Age-Dependent Loss of Dietary Restriction Protective Effects in Acute Kidney Injury. <i>Cells</i> , <b>2018</b> , 7,	7.9	10
64	Role of oxidative stress and mitochondria in onset of urinary bladder dysfunction under acute urine retention. <i>Biochemistry (Moscow)</i> , <b>2013</b> , 78, 542-8	2.9	9
63	Diseases and Aging: Gender Matters. <i>Biochemistry (Moscow)</i> , <b>2015</b> , 80, 1560-70	2.9	9
62	Inhibition of GSK-3 $\beta$ decreases the ischemia-induced death of renal cells. <i>Bulletin of Experimental Biology and Medicine</i> , <b>2010</b> , 149, 303-7	0.8	9
61	Stability and association with the cytomatrix of mitochondrial DNA in spontaneously immortalized mouse embryo fibroblasts containing or lacking the intermediate filament protein vimentin. <i>DNA and Cell Biology</i> , <b>2005</b> , 24, 710-35	3.6	9
60	Functional activity of mitochondria in cultured neural precursor cells. <i>Bulletin of Experimental Biology and Medicine</i> , <b>2006</b> , 141, 142-6	0.8	9
59	Synthetic and natural polyanions induce cytochrome c release from mitochondria in vitro and in situ. <i>American Journal of Physiology - Cell Physiology</i> , <b>2011</b> , 300, C1193-203	5.4	8
58	Effects of ischemic and hypoxic preconditioning on the state of mitochondria and function of ischemic kidneys. <i>Bulletin of Experimental Biology and Medicine</i> , <b>2007</b> , 143, 105-9	0.8	8
57	Virus-induced permeability transition in mitochondria. <i>FEBS Letters</i> , <b>2000</b> , 466, 305-9	3.8	8
56	ATP Synthase K- and H-fluxes Drive ATP Synthesis and Enable Mitochondrial K-"Uniporter" Function: II. Ion and ATP Synthase Flux Regulation.. <i>Function</i> , <b>2022</b> , 3, zqac001	6.1	8
55	Effect of Anesthetics on Efficiency of Remote Ischemic Preconditioning. <i>Biochemistry (Moscow)</i> , <b>2017</b> , 82, 1006-1016	2.9	7



54	The lack of extracellular Na <sup>+</sup> exacerbates Ca <sup>2+</sup> -dependent damage of cultured cerebellar granule cells. <i>FEBS Letters</i> , <b>1998</b> , 434, 188-92	3.8	7
53	Heterogeneity of mitochondrial potential as a marker for isolation of pure cardiomyoblast population. <i>Bulletin of Experimental Biology and Medicine</i> , <b>2008</b> , 146, 506-11	0.8	7
52	ATP Synthase K- and H-Fluxes Drive ATP Synthesis and Enable Mitochondrial K-"Uniporter" Function: I. Characterization of Ion Fluxes.. <i>Function</i> , <b>2022</b> , 3, zqab065	6.1	7
51	Resemblance and differences in dietary restriction nephroprotective mechanisms in young and old rats. <i>Aging</i> , <b>2020</b> , 12, 18693-18715	5.6	7
50	Molecular and Cellular Interactions between Mother and Fetus. Pregnancy as a Rejuvenating Factor. <i>Biochemistry (Moscow)</i> , <b>2016</b> , 81, 1480-1487	2.9	7
49	Rapamycin Is Not Protective against Ischemic and Cisplatin-Induced Kidney Injury. <i>Biochemistry (Moscow)</i> , <b>2019</b> , 84, 1502-1512	2.9	7
48	Protection of Neurovascular Unit Cells with Lithium Chloride and Sodium Valproate Prevents Brain Damage in Neonatal Ischemia/Hypoxia. <i>Bulletin of Experimental Biology and Medicine</i> , <b>2016</b> , 160, 313-8	0.8	6
47	Glucose starvation stimulates Zn <sup>2+</sup> toxicity in cultures of cerebellar granule neurons. <i>Brain Research Bulletin</i> , <b>2012</b> , 87, 80-4	3.9	6
46	Toxic effect of glutamate causes mitochondria damage in granule cells of dissociated cultures of rat cerebellum. <i>Bulletin of Experimental Biology and Medicine</i> , <b>1995</b> , 119, 365-367	0.8	6
45	Proteinaceous complexes from mitochondrial contact sites. <i>Biochemistry (Moscow)</i> , <b>1999</b> , 64, 390-8	2.9	6
44	The Use of Technetium-99m for Intravital Tracing of Transplanted Multipotent Stromal Cells. <i>Bulletin of Experimental Biology and Medicine</i> , <b>2016</b> , 162, 153-159	0.8	5
43	The effects of cold stress on respiration of diaphragm muscle. <i>Journal of Bioenergetics and Biomembranes</i> , <b>1973</b> , 5, 119-128	3.7	5
42	Nonphosphorylating Oxidation in Mitochondria and Related Processes. <i>Biochemistry (Moscow)</i> , <b>2020</b> , 85, 1570-1577	2.9	5
41	Age-Related Changes in Bone-Marrow Mesenchymal Stem Cells. <i>Cells</i> , <b>2021</b> , 10,	7.9	4
40	Mitochondria-Associated Matrix Metalloproteinases 2 and 9 in Acute Renal Pathologies. <i>Bulletin of Experimental Biology and Medicine</i> , <b>2019</b> , 166, 334-338	0.8	4
39	Neuroprotective Potential of Mild Uncoupling in Mitochondria. Pros and Cons. <i>Brain Sciences</i> , <b>2021</b> , 11,	3.4	4
38	Intramitochondrial accumulation of cationic Atto520-biotin proceeds via voltage-dependent slow permeation through lipid membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2015</b> , 1848, 1277-84	3.8	3
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36	Mechanisms of Inflammatory Injury of Renal Tubular Cells in a Cellular Model of Pyelonephritis. <i>Biochemistry (Moscow)</i> , <b>2016</b> , 81, 1240-1250	2.9	3
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18	Quantification of mitochondrial morphology in situ. <i>Cell and Tissue Biology</i> , <b>2017</b> , 11, 51-58	0.4	1
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