Dmitry B Zorov

List of Publications by Year
in descending order

193 papers	16,274 citations	46984 47 h-index	17090 122 g-index
207 all docs	207 docs citations	207 times ranked	18814 citing authors

#	Article	IF	Citations
1	Mitochondrial Reactive Oxygen Species (ROS) and ROS-Induced ROS Release. Physiological Reviews, 2014, 94, 909-950.	13.1	3,274
2	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (edition	4.3	1,430
3	Reactive Oxygen Species (Ros-Induced) Ros Release. Journal of Experimental Medicine, 2000, 192, 1001-1014.	4.2	1,263
4	Mitochondrial membrane potential. Analytical Biochemistry, 2018, 552, 50-59.	1.1	1,161
5	Mitochondrial ROS-induced ROS release: An update and review. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 509-517.	0.5	892
6	Glycogen synthase kinase-3Î² mediates convergence of protection signaling to inhibit the mitochondrial permeability transition pore. Journal of Clinical Investigation, 2004, 113, 1535-1549.	3.9	854
7	An attempt to prevent senescence: A mitochondrial approach. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 437-461.	0.5	359
8	Role of Glycogen Synthase Kinase-3Î² in Cardioprotection. Circulation Research, 2009, 104, 1240-1252.	2.0	330
9	Kindling fluorescent proteins for precise in vivo photolabeling. Nature Biotechnology, 2003, 21, 191-194.	9.4	304
10	Coupling membranes as energy-transmitting cables. I. Filamentous mitochondria in fibroblasts and mitochondrial clusters in cardiomyocytes.. Journal of Cell Biology, 1988, 107, 481-495.	2.3	258
11	Regulation and pharmacology of the mitochondrial permeability transition pore. Cardiovascular Research, 2009, 83, 213-225.	1.8	208
12	Mitochondrial benzodiazepine receptor linked to inner membrane ion channels by nanomolar actions of ligands.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 1374-1378.	3.3	196
13	Cellâ€toâ€cell crossâ€talk between mesenchymal stem cells and cardiomyocytes in coâ€culture. Journal of Cellular and Molecular Medicine, 2008, 12, 1622-1631.	1.6	196
14	The role of mitochondria in oxidative and nitrosative stress during ischemia/reperfusion in the rat kidney. Kidney International, 2007, 72, 1493-1502.	2.6	172
15	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,) Tj ETQq1 1 0.784314 rgBT /Overlock	0.7	152
16	Role of mitochondrial calcium transport in the control of substrate oxidation. , 1998, 184, 359-369.		150
17	Mitochondrial-Targeted Plastoquinone Derivatives. Effect on Senescence and Acute Age-Related Pathologies. Current Drug Targets, 2011, 12, 800-826.	1.0	147
18	Cytoplasm and organelle transfer between mesenchymal multipotent stromal cells and renal tubular cells in co-culture. Experimental Cell Research, 2010, 316, 2447-2455.	1.2	136

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19	Miro1 Enhances Mitochondria Transfer from Multipotent Mesenchymal Stem Cells (MMSC) to Neural Cells and Improves the Efficacy of Cell Recovery. Molecules, 2018, 23, 687.	1.7	130
20	Mitochondrial contact sites: Their role in energy metabolism and apoptosis. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2006, 1762, 148-163.	1.8	129
21	Thread-grain transition of mitochondrial reticulum as a step of mitoptosis and apoptosis. Molecular and Cellular Biochemistry, 2004, 256, 341-358.	1.4	128
22	Protection in the aged heart: preventing the heart-break of old age?. Cardiovascular Research, 2005, 66, 233-244.	1.8	127
23	<i>The Identity and Regulation of the Mitochondrial Permeability Transition Pore</i>. Annals of the New York Academy of Sciences, 2008, 1123, 197-212.	1.8	122
24	Myoglobin causes oxidative stress, increase of NO production and dysfunction of kidney's mitochondria. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2009, 1792, 796-803.	1.8	104
25	Mechanisms of nephroprotective effect of mitochondria-targeted antioxidants under rhabdomyolysis and ischemia/reperfusion. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 77-86.	1.8	104
26	Modulation of inner mitochondrial membrane channel activity. Journal of Bioenergetics and Biomembranes, 1992, 24, 99-110.	1.0	94
27	Improving the Post-Stroke Therapeutic Potency of Mesenchymal Multipotent Stromal Cells by Cocultivation With Cortical Neurons: The Role of Crosstalk Between Cells. Stem Cells Translational Medicine, 2015, 4, 1011-1020.	1.6	92
28	Effect of MSCs and MSC-Derived Extracellular Vesicles on Human Blood Coagulation. Cells, 2019, 8, 258.	1.8	91
29	Calcium modulation of mitochondrial inner membrane channel activity. Biochemical and Biophysical Research Communications, 1991, 176, 1183-1188.	1.0	89
30	Mitochondria Revisited. Alternative Functions of Mitochondria. Bioscience Reports, 1997, 17, 507-520.	1.1	86
31	Neurotoxic glutamate treatment of cultured cerebellar granule cells induces Ca2+ -dependent collapse of mitochondrial membrane potential and ultrastructural alterations of mitochondria. FEBS Letters, 1996, 392, 143-147.	1.3	83
32	Protective effect of mitochondria-targeted antioxidants in an acute bacterial infection. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3100-8.	3.3	81
33	Adenine nucleotide translocator isoforms 1 and 2 are differently distributed in the mitochondrial inner membrane and have distinct affinities to cyclophilin D. Biochemical Journal, 2001, 358, 349-358.	1.7	80
34	Voltage activation of heart inner mitochondrial membrane channels. Journal of Bioenergetics and Biomembranes, 1992, 24, 119-124.	1.0	78
35	Examining Intracellular Organelle Function Using Fluorescent Probes. Circulation Research, 2004, 95, 239-252.	2.0	77
36	Lessons from the Discovery of Mitochondrial Fragmentation (Fission): A Review and Update. Cells, 2019, 8, 175.	1.8	65

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37	Adenine nucleotide translocator isoforms 1 and 2 are differently distributed in the mitochondrial inner membrane and have distinct affinities to cyclophilin D. Biochemical Journal, 2001, 358, 349.	1.7	60
38	Matching ATP supply and demand in mammalian heart. Annals of the New York Academy of Sciences, 2010, 1188, 133-142.	1.8	60
39	Role of mitochondrial calcium transport in the control of substrate oxidation. , 1998, , 359-369.		59
40	Inhibition of Na+,K+-ATPase activity in cultured rat cerebellar granule cells prevents the onset of apoptosis induced by low potassium. Neuroscience Letters, 2000, 283, 41-44.	1.0	58
41	Mitochondrial damage as a source of diseases and aging: a strategy of how to fight these. Biochimica Et Biophysica Acta - Bioenergetics, 1996, 1275, 10-15.	0.5	56
42	Bax releases cytochrome c preferentially from a complex between porin and adenine nucleotide translocator. Hexokinase activity suppresses this effect. Molecular Biology Reports, 2002, 29, 93-96.	1.0	56
43	Diazepam inhibits cell respiration and induces fragmentation of mitochondrial reticulum. FEBS Letters, 1983, 163, 311-314.	1.3	53
44	Interrelations of mitochondrial fragmentation and cell death under ischemia/reoxygenation and UVâ€irradiation: Protective effects of SkQ1, lithium ions and insulin. FEBS Letters, 2008, 582, 3117-3124.	1.3	53
45	Mild uncoupling of respiration and phosphorylation as a mechanism providing nephro- and neuroprotective effects of penetrating cations of the SkQ family. Biochemistry (Moscow), 2012, 77, 1029-1037.	0.7	52
46	Reactive oxygen and nitrogen species: Friends or foes?. Biochemistry (Moscow), 2005, 70, 215-221.	0.7	51
47	New-generation Skulachev ions exhibiting nephroprotective and neuroprotective properties. Biochemistry (Moscow), 2010, 75, 145-150.	0.7	51
48	Mitochondrial Damage and Mitochondria-Targeted Antioxidant Protection in LPS-Induced Acute Kidney Injury. Antioxidants, 2019, 8, 176.	2.2	51
49	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. Biochimica Et Biophysica Acta - Molecular Cell Research, 2004, 1644, 27-36.	1.9	47
50	The mitochondrion as Janus Bifrons. Biochemistry (Moscow), 2007, 72, 1115-1126.	0.7	47
51	Neuroprotective Effects of Mitochondria-Targeted Plastoquinone and Thymoquinone in a Rat Model of Brain Ischemia/Reperfusion Injury. Molecules, 2015, 20, 14487-14503.	1.7	46
52	Neuroprotective effects of the antifungal drug clotrimazole. Neuroscience, 2002, 113, 47-53.	1.1	45
53	Effect of ADP/ATP antiporter conformational state on the suppression of the nonspecific permeability of the inner mitochondrial membrane by cyclosporine A. FEBS Letters, 1990, 277, 123-126.	1.3	43
54	Multiple conductance levels in rat heart inner mitochondrial membranes studied by patch clamping. Biochimica Et Biophysica Acta - Biomembranes, 1992, 1105, 263-270.	1.4	43

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55	The Mitochondria-Targeted Antioxidants and Remote Kidney Preconditioning Ameliorate Brain Damage through Kidney-to-Brain Cross-Talk. PLoS ONE, 2012, 7, e51553.	1.1	43
56	A mitochondria-targeted protonophoric uncoupler derived from fluorescein. Chemical Communications, 2014, 50, 15366-15369.	2.2	41
57	Amelioration of aminoglycoside nephrotoxicity requires protection of renal mitochondria. Kidney International, 2010, 77, 841-843.	2.6	40
58	The Mitochondrion as a Key Regulator of Ischaemic Tolerance and Injury. Heart Lung and Circulation, 2014, 23, 897-904.	0.2	40
59	Microbiota and mitobiota. Putting an equal sign between mitochondria and bacteria. Biochemistry (Moscow), 2014, 79, 1017-1031.	0.7	39
60	Mitochondria as a Source and a Target for Uremic Toxins. International Journal of Molecular Sciences, 2019, 20, 3094.	1.8	39
61	Mitochondria-targeted plastoquinone antioxidant SkQR1 decreases trauma-induced neurological deficit in rat. Biochemistry (Moscow), 2012, 77, 996-999.	0.7	38
62	Role of acidosis, NMDA receptors, and acid-sensitive ion channel 1a (ASIC1a) in neuronal death induced by ischemia. Biochemistry (Moscow), 2008, 73, 1171-1175.	0.7	35
63	The age-associated loss of ischemic preconditioning in the kidney is accompanied by mitochondrial dysfunction, increased protein acetylation and decreased autophagy. Scientific Reports, 2017, 7, 44430.	1.6	35
64	Neuroprotective Effects of Mitochondria-Targeted Plastoquinone in a Rat Model of Neonatal Hypoxicâ€“Ischemic Brain Injury. Molecules, 2018, 23, 1871.	1.7	35
65	Mechanisms of LPS-Induced Acute Kidney Injury in Neonatal and Adult Rats. Antioxidants, 2018, 7, 105.	2.2	35
66	In vivo injected mitochondria-targeted plastoquinone antioxidant SkQR1 prevents Î²-amyloid-induced decay of long-term potentiation in rat hippocampal slices. Biochemistry (Moscow), 2011, 76, 1367-1370.	0.7	34
67	Mitochondria-targeted antioxidant SkQR1 ameliorates gentamycin-induced renal failure and hearing loss. Biochemistry (Moscow), 2012, 77, 666-670.	0.7	34
68	A short-chain alkyl derivative of Rhodamine 19 acts as a mild uncoupler of mitochondria and a neuroprotector. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1739-1747.	0.5	34
69	Analysis of Mitochondrial 3D-Deformation in Cardiomyocytes during Active Contraction Reveals Passive Structural Anisotropy of Orthogonal Short Axes. PLoS ONE, 2011, 6, e21985.	1.1	34
70	Peak intensity analysis as a method for estimation of fluorescent probe binding to artificial and natural nanoparticles: Tetramethylrhodamine uptake by isolated mitochondria. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 2182-2190.	1.4	33
71	Kidney Cells Regeneration: Dedifferentiation of Tubular Epithelium, Resident Stem Cells and Possible Niches for Renal Progenitors. International Journal of Molecular Sciences, 2019, 20, 6326.	1.8	33
72	Comparative Evaluation of Two Methods for Studies of Experimental Focal Ischemia: Magnetic Resonance Tomography and Triphenyltetrazoleum Detection of Brain Injuries. Bulletin of Experimental Biology and Medicine, 2009, 147, 269-272.	0.3	32

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73	The role of myoglobin degradation in nephrotoxicity after rhabdomyolysis. Chemico-Biological Interactions, 2016, 256, 64-70.	1.7	32
74	Nephroprotective effect of GSK-3Î² inhibition by lithium ions and Î´-opioid receptor agonist dalargin on gentamicin-induced nephrotoxicity. Toxicology Letters, 2013, 220, 303-308.	0.4	31
75	Comparative kinetic analysis reveals that inducer-specific ion release precedes the mitochondrial permeability transition. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1708, 375-392.	0.5	30
76	Mitochondrial free radical production induced by glucose deprivation in cerebellar granule neurons. Biochemistry (Moscow), 2008, 73, 149-155.	0.7	29
77	Microbiome-Metabolome Signature of Acute Kidney Injury. Metabolites, 2020, 10, 142.	1.3	29
78	A long-linker conjugate of fluorescein and triphenylphosphonium as mitochondria-targeted uncoupler and fluorescent neuro- and nephroprotector. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 2463-2473.	1.1	28
79	Functional Significance of the Mitochondrial Membrane Potential. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2018, 12, 20-26.	0.3	28
80	Mitochondria-Targeted Plastoquinone Antioxidant SkQ1 Prevents Amyloid-Î²-Induced Impairment of Long-Term Potentiation in Rat Hippocampal Slices. Journal of Alzheimer's Disease, 2013, 36, 377-383.	1.2	27
81	Immunoelectron microscopic study of the distribution of porin on outer membranes of rat heart mitochondria. Journal of Bioenergetics and Biomembranes, 1995, 27, 93-99.	1.0	26
82	ATP Synthase K+- and H+-Fluxes Drive ATP Synthesis and Enable Mitochondrial K+-â€œUniporterâ€• Function: I. Characterization of Ion Fluxes. Function, 2022, 3, zqab065.	1.1	25
83	Effect of cyclosporine A and oligomycin on non-specific permeability of the inner mitochondrial membrane. FEBS Letters, 1990, 270, 108-110.	1.3	24
84	Short-term block of Na+ /K+ -ATPase in neuro-glial cell cultures of cerebellum induces glutamate dependent damage of granule cells. FEBS Letters, 1999, 456, 41-44.	1.3	24
85	The phenoptosis problem: What is causing the death of an organism? Lessons from acute kidney injury. Biochemistry (Moscow), 2012, 77, 742-753.	0.7	24
86	Lithium salts â€” Simple but magic. Biochemistry (Moscow), 2014, 79, 740-749.	0.7	24
87	Neuroprotective effect of glutamate-substituted analog of gramicidin A is mediated by the uncoupling of mitochondria. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 3434-3442.	1.1	24
88	Intercellular transfer of mitochondria. Biochemistry (Moscow), 2015, 80, 542-548.	0.7	24
89	Intercellular Signalling Cross-Talk: To Kill, To Heal and To Rejuvenate. Heart Lung and Circulation, 2017, 26, 648-659.	0.2	24
90	Mitochondrial Ca2+, redox environment and ROS emission in heart failure: Two sides of the same coin?. Journal of Molecular and Cellular Cardiology, 2021, 151, 113-125.	0.9	24

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91	Magnetic resonance spectroscopy of the ischemic brain under lithium treatment. Link to mitochondrial disorders under stroke. Chemico-Biological Interactions, 2015, 237, 175-182.	1.7	23
92	Menadione reduces rotenone-induced cell death in cerebellar granule neurons. NeuroReport, 2004, 15, 2227-2231.	0.6	22
93	Dysfunction of kidney endothelium after ischemia/reperfusion and its prevention by mitochondria-targeted antioxidant. Biochemistry (Moscow), 2016, 81, 1538-1548.	0.7	22
94	Safranine O as a fluorescent probe for mitochondrial membrane potential studied on the single particle level and in suspension. Biochemistry (Moscow), 2009, 74, 663-671.	0.7	21
95	Hexokinase inhibits flux of fluorescently labeled ATP through mitochondrial outer membrane porin. FEBS Letters, 2010, 584, 2397-2402.	1.3	21
96	Aged kidney: can we protect it? Autophagy, mitochondria and mechanisms of ischemic preconditioning. Cell Cycle, 2018, 17, 1291-1309.	1.3	21
97	Effect of Silk Fibroin on Neuroregeneration After Traumatic Brain Injury. Neurochemical Research, 2019, 44, 2261-2272.	1.6	21
98	Cellular mechanisms of brain hypoglycemia. Biochemistry (Moscow), 2007, 72, 471-478.	0.7	20
99	Effect of transitory glucose deprivation on mitochondrial structure and functions in cultured cerebellar granule neurons. Neuroscience Letters, 2009, 461, 140-144.	1.0	20
100	Perspectives of mitochondrial medicine. Biochemistry (Moscow), 2013, 78, 979-990.	0.7	20
101	Mechanisms of Age-Dependent Loss of Dietary Restriction Protective Effects in Acute Kidney Injury. Cells, 2018, 7, 178.	1.8	20
102	Pros and Cons of Use of Mitochondria-Targeted Antioxidants. Antioxidants, 2019, 8, 316.	2.2	20
103	ATP synthase K+- and H+-fluxes drive ATP synthesis and enable mitochondrial K+-â€œuniporterâ€•function: II. Ion and ATP synthase flux regulation. Function, 2022, 3, zqac001.	1.1	20
104	Coupling membranes as energy-transmitting cables. II. Cyanobacterial trichomes.. Journal of Cell Biology, 1988, 107, 497-501.	2.3	19
105	Paraquat potentiates glutamate toxicity in immature cultures of cerebellar granule neurons. Toxicology Letters, 2007, 174, 82-88.	0.4	19
106	Age-Related Changes in Bone-Marrow Mesenchymal Stem Cells. Cells, 2021, 10, 1273.	1.8	19
107	Gut Microbiota as a Source of Uremic Toxins. International Journal of Molecular Sciences, 2022, 23, 483.	1.8	19
108	Do Extracellular Vesicles Derived from Mesenchymal Stem Cells Contain Functional Mitochondria?. International Journal of Molecular Sciences, 2022, 23, 7408.	1.8	19

#	Article	IF	Citations
109	The role of oxidative stress in acute renal injury of newborn rats exposed to hypoxia and endotoxin. FEBS Journal, 2017, 284, 3069-3078.	2.2	18
110	Targeting Inflammation and Oxidative Stress as a Therapy for Ischemic Kidney Injury. Biochemistry (Moscow), 2020, 85, 1591-1602.	0.7	18
111	Acidosis-Induced Zinc-Dependent Death of Cultured Cerebellar Granule Neurons. Cellular and Molecular Neurobiology, 2010, 30, 877-883.	1.7	17
112	Pregnancy protects the kidney from acute ischemic injury. Scientific Reports, 2018, 8, 14534.	1.6	17
113	Effects of Traumatic Brain Injury on the Gut Microbiota Composition and Serum Amino Acid Profile in Rats. Cells, 2022, 11, 1409.	1.8	17
114	N-Terminally Glutamate-Substituted Analogue of Gramicidin A as Protonophore and Selective Mitochondrial Uncoupler. PLoS ONE, 2012, 7, e41919.	1.1	16
115	Mitochondrial Aging: Is There a Mitochondrial Clock?. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, glw184.	1.7	16
116	Neuroprotective Potential of Mild Uncoupling in Mitochondria. Pros and Cons. Brain Sciences, 2021, 11, 1050.	1.1	16
117	Intra-Arterial Administration of Multipotent Mesenchymal Stromal Cells Promotes Functional Recovery of the Brain After Traumatic Brain Injury. Bulletin of Experimental Biology and Medicine, 2015, 159, 528-533.	0.3	15
118	Is the Mitochondrial Membrane Potential (â^†Î¨) Correctly Assessed? Intracellular and Intramitochondrial Modifications of the â^†Î¨ Probe, Rhodamine 123. International Journal of Molecular Sciences, 2022, 23, 482.	1.8	15
119	The permeability transition pore induced under anaerobic conditions in mitochondria energized with ATP. FEBS Letters, 1998, 434, 313-316.	1.3	14
120	Inflammatory pre-conditioning of mesenchymal multipotent stromalÂcells improves their immunomodulatory potency in acute pyelonephritis in rats. Cytotherapy, 2013, 15, 679-689.	0.3	14
121	Mitodiversity. Biochemistry (Moscow), 2015, 80, 532-541.	0.7	14
122	Zwitterionic Protonophore Derived from 2-(2-Hydroxyaryl)alkenylphosphonium as an Uncoupler of Oxidative Phosphorylation. Bioconjugate Chemistry, 2019, 30, 2435-2443.	1.8	14
123	The Ca2+-induced pore opening in mitochondria energized by succinate-ferricyanide electron transport. FEBS Letters, 1997, 419, 137-140.	1.3	13
124	Role of oxidative stress and mitochondria in onset of urinary bladder dysfunction under acute urine retention. Biochemistry (Moscow), 2013, 78, 542-548.	0.7	13
125	Functional activity of mitochondria in cultured neural precursor cells. Bulletin of Experimental Biology and Medicine, 2006, 141, 142-146.	0.3	12
126	Glutamine-mediated protection from neuronal cell death depends on mitochondrial activity. Neuroscience Letters, 2010, 482, 151-155.	1.0	12

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127	Effect of anesthetics on efficiency of remote ischemic preconditioning. Biochemistry (Moscow), 2017, 82, 1006-1016.	0.7	12
128	Resemblance and differences in dietary restriction nephroprotective mechanisms in young and old rats. Aging, 2020, 12, 18693-18715.	1.4	12
129	Role of Mitochondria in the Mechanisms of Glutamate Toxicity. Biochemistry (Moscow), 2005, 70, 611-618.	0.7	11
130	Inhibition of GSK-3Î² Decreases the Ischemia-Induced Death of Renal Cells. Bulletin of Experimental Biology and Medicine, 2010, 149, 303-307.	0.3	11
131	Diseases and aging: Gender matters. Biochemistry (Moscow), 2015, 80, 1560-1570.	0.7	11
132	Stability and Association with the Cytomatrix of Mitochondrial DNA in Spontaneously Immortalized Mouse Embryo Fibroblasts Containing or Lacking the Intermediate Filament Protein Vimentin. DNA and Cell Biology, 2005, 24, 710-735.	0.9	10
133	Stimulation of kainate toxicity by zinc in cultured cerebellar granule neurons and the role of mitochondria in this process. Toxicology Letters, 2012, 208, 36-40.	0.4	10
134	Protection of Neurovascular Unit Cells with Lithium Chloride and Sodium Valproate Prevents Brain Damage in Neonatal Ischemia/Hypoxia. Bulletin of Experimental Biology and Medicine, 2016, 160, 313-318.	0.3	10
135	Heterogeneity of Mitochondrial Potential as a Marker for Isolation of Pure Cardiomyoblast Population. Bulletin of Experimental Biology and Medicine, 2008, 146, 506-511.	0.3	9
136	Synthetic and natural polyanions induce cytochrome c release from mitochondria in vitro and in situ. American Journal of Physiology - Cell Physiology, 2011, 300, C1193-C1203.	2.1	9
137	Molecular and cellular interactions between mother and fetus. Pregnancy as a rejuvenating factor. Biochemistry (Moscow), 2016, 81, 1480-1487.	0.7	9
138	Rapamycin Is Not Protective against Ischemic and Cisplatin-Induced Kidney Injury. Biochemistry (Moscow), 2019, 84, 1502-1512.	0.7	9
139	Virus-induced permeability transition in mitochondria. FEBS Letters, 2000, 466, 305-309.	1.3	8
140	Effects of ischemic and hypoxic preconditioning on the state of mitochondria and function of ischemic kidneys. Bulletin of Experimental Biology and Medicine, 2007, 143, 105-109.	0.3	8
141	Effects of Recombinant Spidroin rS1/9 on Brain Neural Progenitors After Photothrombosis-Induced Ischemia. Frontiers in Cell and Developmental Biology, 2020, 8, 823.	1.8	8
142	Mitochondria in the Nuclei of Rat Myocardial Cells. Cells, 2020, 9, 712.	1.8	8
143	Setting the Record Straight: A New Twist on the Chemiosmotic Mechanism of Oxidative Phosphorylation. Function, 2022, 3, .	1.1	8
144	The lack of extracellular Na+ exacerbates Ca2+ -dependent damage of cultured cerebellar granule cells. FEBS Letters, 1998, 434, 188-192.	1.3	7

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145	Glucose starvation stimulates Zn2+ toxicity in cultures of cerebellar granule neurons. Brain Research Bulletin, 2012, 87, 80-84.	1.4	7
146	Dietary Restriction for Kidney Protection: Decline in Nephroprotective Mechanisms During Aging. Frontiers in Physiology, 2021, 12, 699490.	1.3	7
147	Nonphosphorylating Oxidation in Mitochondria and Related Processes. Biochemistry (Moscow), 2020, 85, 1570-1577.	0.7	7
148	Linking 7-Nitrobenzo-2-oxa-1,3-diazole (NBD) to Triphenylphosphonium Yields Mitochondria-Targeted Protonophore and Antibacterial Agent. Biochemistry (Moscow), 2020, 85, 1578-1590.	0.7	7
149	Computational modeling of mitochondrial K+- and H+-driven ATP synthesis. Journal of Molecular and Cellular Cardiology, 2022, 165, 9-18.	0.9	7
150	Toxic effect of glutamate causes mitochondria damage in granule cells of dissociated cultures of rat cerebellum. Bulletin of Experimental Biology and Medicine, 1995, 119, 365-367.	0.3	6
151	The Use of Technetium-99m for Intravital Tracing of Transplanted Multipotent Stromal Cells. Bulletin of Experimental Biology and Medicine, 2016, 162, 153-159.	0.3	6
152	Mitochondria-Associated Matrix Metalloproteinases 2 and 9 in Acute Renal Pathologies. Bulletin of Experimental Biology and Medicine, 2019, 166, 334-338.	0.3	6
153	Proteinaceous complexes from mitochondrial contact sites. Biochemistry (Moscow), 1999, 64, 390-8.	0.7	6
154	The effects of cold stress on respiration of diaphragm muscle. Journal of Bioenergetics and Biomembranes, 1973, 5, 119-128.	1.0	5
155	Bacterial therapy and mitochondrial therapy. Biochemistry (Moscow), 2017, 82, 1549-1556.	0.7	5
156	Morphological Changes in the Kidneys of Rats with Postischemic Acute Renal Failure after Intrarenal Administration of Fetal Mesenchymal Stem Cells from Human Bone Marrow. Bulletin of Experimental Biology and Medicine, 2009, 147, 113-119.	0.3	4
157	Do mitochondria have an immune system?. Biochemistry (Moscow), 2016, 81, 1229-1236.	0.7	4
158	The Influence of Proinflammatory Factors on the Neuroprotective Efficiency of Multipotent Mesenchymal Stromal Cells in Traumatic Brain Injury. Bulletin of Experimental Biology and Medicine, 2017, 163, 528-534.	0.3	4
159	A Combination of Kidney Ischemia and Injection of Isolated Mitochondria Leads to Activation of Inflammation and Increase in Mortality Rate in Rats. Bulletin of Experimental Biology and Medicine, 2020, 169, 213-217.	0.3	4
160	THE ROLE OF POLYAMINES IN FUNCTIONING OF REPRODUCTIVE SYSTEM CELLS. Tsitologiya, 2018, 60, 164-172.	0.2	4
161	Dietary restriction modulates mitochondrial DNA damage and oxylipin profile in aged rats. FEBS Journal, 2022, 289, 5697-5713.	2.2	4
162	Effects of amyl ester of unsubstituted rhodamine on respiration and Ca2+ transport in rat liver mitochondria. Biochemical and Biophysical Research Communications, 1991, 175, 1010-1016.	1.0	3

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163	Glucose deprivation potentiates toxicity of ouabain and glutamate in cortical neurons cultured for different time periods. Neurochemical Journal, 2009, 3, 202-206.	0.2	3
164	Methods of Detection of Mesenchymal Stem Cells in the Kidneys during Therapy of Experimental Renal Pathologies. Bulletin of Experimental Biology and Medicine, 2012, 154, 145-151.	0.3	3
165	Intramitochondrial accumulation of cationic Atto520-biotin proceeds via voltage-dependent slow permeation through lipid membrane. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 1277-1284.	1.4	3
166	Mechanisms of inflammatory injury of renal tubular cells in a cellular model of pyelonephritis. Biochemistry (Moscow), 2016, 81, 1240-1250.	0.7	3
167	Comparative Study of the Severity of Renal Damage in Newborn and Adult Rats under Conditions of Ischemia/Reperfusion and Endotoxin Administration. Bulletin of Experimental Biology and Medicine, 2018, 165, 189-194.	0.3	3
168	Mitochondrial Targeting of Antioxidants. , 2014, , 323-354.		2
169	Assessment of Long-Term Sensorimotor Deficit after Cerebral Ischemia/Hypoxia in Neonatal Rats. Neuroscience and Behavioral Physiology, 2014, 44, 879-887.	0.2	2
170	Mitochondria-Targeted Antioxidants and Alzheimerâ€™s Disease. , 2014, , 195-201.		2
171	Changes in number of neurons, astrocytes and microglia in brain after ischemic stroke assessed by immunohistochemistry and immunoblotting. Cell and Tissue Biology, 2016, 10, 445-452.	0.2	2
172	Mitochondria as a target for neuroprotection. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2016, 10, 28-36.	0.3	2
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