Natalia Belosludtseva

List of Publications by Year
in descending order

52	769	471371	580701
papers	citations	17	25
		h-index	g-index

55	55	55	700
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mitochondrial Ca2+ Transport: Mechanisms, Molecular Structures, and Role in Cells. Biochemistry (Moscow), 2019, 84, 593-607.	0.7	95
2	Diabetes Mellitus, Mitochondrial Dysfunction and Ca2+-Dependent Permeability Transition Pore. International Journal of Molecular Sciences, 2020, 21, 6559.	1.8	58
3	Ca2+-dependent permeabilization of mitochondria and liposomes by palmitic and oleic acids: A comparative study. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2600-2606.	1.4	34
4	On the mechanism of palmitic acid-induced apoptosis: the role of a pore induced by palmitic acid and Ca2+ in mitochondria. Journal of Bioenergetics and Biomembranes, 2006, 38, 113-120.	1.0	31
5	Ca2+-Induced Phase Separation in the Membrane of Palmitate-Containing Liposomes and Its Possible Relation to Membrane Permeabilization. Journal of Membrane Biology, 2007, 215, 57-68.	1.0	27
6	Possible Mechanism for Formation and Regulation of the Palmitate-Induced Cyclosporin A-Insensitive Mitochondrial Pore. Biochemistry (Moscow), 2005, 70, 815-821.	0.7	25
7	Itaconic acid impairs the mitochondrial function by the inhibition of complexes II and IV and induction of the permeability transition pore opening in rat liver mitochondria. Biochimie, 2020, 176, 150-157.	1.3	25
8	Mitochondria-targeted prooxidant effects of betulinic acid conjugated with delocalized lipophilic cation F16. Free Radical Biology and Medicine, 2021, 168, 55-69.	1.3	25
9	Uridine treatment prevents myocardial injury in rat models of acute ischemia and ischemia/reperfusion by activating the mitochondrial ATP-dependent potassium channel. Scientific Reports, 2021, 11, 16999.	1.6	25
10	Transport of Ca2+ and Ca2+-Dependent Permeability Transition in Rat Liver Mitochondria under the Streptozotocin-Induced Type I Diabetes. Cells, 2019, 8, 1014.	1.8	24
11	Chronic treatment with dapagliflozin protects against mitochondrial dysfunction in the liver of C57BL/6NCrl mice with high-fat diet/streptozotocin-induced diabetes mellitus. Mitochondrion, 2021, 59, 246-254.	1.6	24
12	The role of mitochondrial KATP channel in anti-inflammatory effects of uridine in endotoxemic mice. Archives of Biochemistry and Biophysics, 2018, 654, 70-76.	1.4	23
13	Physiological aspects of the mitochondrial cyclosporin A-insensitive palmitate/Ca2+-induced pore: tissue specificity, age profile and dependence on the animalâ€™s adaptation to hypoxia. Journal of Bioenergetics and Biomembranes, 2009, 41, 395-401.	1.0	22
14	The Effect of Deflazacort Treatment on the Functioning of Skeletal Muscle Mitochondria in Duchenne Muscular Dystrophy. International Journal of Molecular Sciences, 2020, 21, 8763.	1.8	22
15	Effect of bedaquiline on the functions of rat liver mitochondria. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 288-297.	1.4	19
16	Alisporivir Improves Mitochondrial Function in Skeletal Muscle of mdx Mice but Suppresses Mitochondrial Dynamics and Biogenesis. International Journal of Molecular Sciences, 2021, 22, 9780.	1.8	19
17	Mitochondrial Ca2+ cycle mediated by the palmitate-activated cyclosporin a-insensitive pore. Journal of Bioenergetics and Biomembranes, 2007, 39, 167-174.	1.0	18
18	Transport of Ca2+ and Ca2+-Dependent Permeability Transition in the Liver and Heart Mitochondria of Rats with Different Tolerance to Acute Hypoxia. Biomolecules, 2020, 10, 114.	1.8	18

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19	Study of the mechanism of permeabilization of lecithin liposomes and rat liver mitochondria by the antimicrobial drug triclosan. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 264-271.	1.4	16
20	Effect of hypoxia on mitochondrial enzymes and ultrastructure in the brain cortex of rats with different tolerance to oxygen shortage. Journal of Bioenergetics and Biomembranes, 2019, 51, 329-340.	1.0	16
21	Energy metabolism and oxidative status of rat liver mitochondria in conditions of experimentally induced hyperthyroidism. Mitochondrion, 2020, 52, 190-196.	1.6	16
22	Palmitic Acid Induces the Opening of a Ca2+-Dependent Pore in the Plasma Membrane of Red Blood Cells: The Possible Role of the Pore in Erythrocyte Lysis. Journal of Membrane Biology, 2010, 237, 13-19.	1.0	12
23	Effect of the MPT Pore Inhibitor Alisporivir on the Development of Mitochondrial Dysfunction in the Heart Tissue of Diabetic Mice. Biology, 2021, 10, 839.	1.3	12
24	Involvement of palmitate/Ca2+(Sr2+)-induced pore in the cycling of ions across the mitochondrial membrane. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 488-495.	1.4	11
25	Energetic, oxidative and ionic exchange in rat brain and liver mitochondria at experimental audiogenic epilepsy (Krushinskyâ€“Molodkina model). Journal of Bioenergetics and Biomembranes, 2017, 49, 149-158.	1.0	11
26	Effect of the Non-Immunosuppressive MPT Pore Inhibitor Alisporivir on the Functioning of Heart Mitochondria in Dystrophin-Deficient mdx Mice. Biomedicines, 2021, 9, 1232.	1.4	11
27	Alisporivir Treatment Alleviates Mitochondrial Dysfunction in the Skeletal Muscles of C57BL/6NCrl Mice with High-Fat Diet/Streptozotocin-Induced Diabetes Mellitus. International Journal of Molecular Sciences, 2021, 22, 9524.	1.8	11
28	The Effect of S-15176 Difumarate Salt on Ultrastructure and Functions of Liver Mitochondria of C57BL/6 Mice with Streptozotocin/High-Fat Diet-Induced Type 2 Diabetes. Biology, 2020, 9, 309.	1.3	11
29	Effect of surface-potential modulators on the opening of lipid pores in liposomal and mitochondrial inner membranes induced by palmitate and calcium ions. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2200-2205.	1.4	10
30	Uridine as a protector against hypoxia-induced lung injury. Scientific Reports, 2019, 9, 9418.	1.6	10
31	Intranasal administration of mitochondria improves spatial memory in olfactory bulbectomized mice. Experimental Biology and Medicine, 2022, 247, 416-425.	1.1	9
32	Formation of lamellar bodies in rat liver mitochondria in hyperthyroidism. Journal of Bioenergetics and Biomembranes, 2018, 50, 289-295.	1.0	8
33	Interaction of the anti-tuberculous drug bedaquiline with artificial membranes and rat erythrocytes. Chemico-Biological Interactions, 2019, 299, 8-14.	1.7	8
34	The effect of DS16570511, a new inhibitor of mitochondrial calcium uniporter, on calcium homeostasis, metabolism, and functional state of cultured cortical neurons and isolated brain mitochondria. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129847.	1.1	8
35	Effect of several flavonoid-containing plant preparations on activity of mitochondrial ATP-dependent potassium channel. Bulletin of Experimental Biology and Medicine, 2008, 146, 229-233.	0.3	7
36	Interaction of Phospholipase A of the E.Âcoli Outer Membrane with the Inhibitors of Eucaryotic Phospholipases A2 and Their Effect on the Ca2+-Induced Permeabilization of the Bacterial Membrane. Journal of Membrane Biology, 2014, 247, 281-288.	1.0	7

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37	Oxidative phosphorylation and ion transport in the mitochondria of two strains of rats varying in their resistance to stress and hypoxia. Molecular and Cellular Biochemistry, 2013, 383, 261-269.	1.4	6
38	Dynamic Restructuring of the Myocardial Mitochondria in Response to Uridine Modulation of the Activity of Mitochondrial ATP-Dependent Potassium Channel under Conditions of Acute Hypoxic Hypoxia. Bulletin of Experimental Biology and Medicine, 2019, 166, 806-810.	0.3	6
39	Effect of Dequalinium on Respiration and the Inner Membrane Permeability of Rat Liver Mitochondria. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2018, 12, 121-127.	0.3	5
40	Mitochondrial lipid pore in the mechanism of glutamate-induced calcium deregulation of brain neurons. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2012, 6, 45-55.	0.3	4
41	Study of the mechanisms of cytotoxic effect of uranyl nitrate. Biophysics (Russian Federation), 2012, 57, 607-612.	0.2	3
42	Alisporivir Normalizes Mitochondrial Function of Primary Mouse Lung Endothelial Cells Under Conditions of Hyperglycemia. Biochemistry (Moscow), 2022, 87, 605-616.	0.7	3
43	The effect of taurine on the ion transport system in mitochondria. Biophysics (Russian Federation), 2008, 53, 515-518.	0.2	2
44	Influence of cholesterol on the formation of palmitate/Ca2+-activated pores in mitochondria and liposomes. Biophysics (Russian Federation), 2009, 54, 323-326.	0.2	2
45	Role of mitochondria in hepatotoxicity of ethanol. Biophysics (Russian Federation), 2010, 55, 951-958.	0.2	2
46	The influence of spermine on Ca2+-dependent permeability transition in mitochondria and liposomes induced by palmitic and Î±,Ï‰-hexadecanedioic acids. Biophysics (Russian Federation), 2014, 59, 727-731.	0.2	2
47	The role of mitochondrial palmitate/Ca2+-activated pore in palmitate-induced apoptosis. Biophysics (Russian Federation), 2008, 53, 519-522.	0.2	1
48	S-15176 Difumarate Salt Can Impair Mitochondrial Function through Inhibition of the Respiratory Complex III and Permeabilization of the Inner Mitochondrial Membrane. Biology, 2022, 11, 380.	1.3	1
49	The Short-Term Opening of Cyclosporin A-Independent Palmitate/Sr2+-Induced Pore Can Underlie Ion Efflux in the Oscillatory Mode of Functioning of Rat Liver Mitochondria. Membranes, 2022, 12, 667.	1.4	1
50	Detection of KIR6 family protein in rat heart and liver mitochondria by immunoelectron microscopy. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2014, 8, 121-124.	0.3	0
51	A study of the effects of flocalin on respiration and potassium transport of rat-heart and liver mitochondria. Biophysics (Russian Federation), 2016, 61, 888-892.	0.2	0
52	Study of Uridine Effect on the Development of Audiogenic Tonic Seizures in Krushinskyâ€“Molodkina Strain Rats. Doklady Biological Sciences, 2018, 481, 125-127.	0.2	0