Vilmante Borutaite

List of Publications by Year
in descending order

64 papers	4,403 citations	159585 30 h-index	118850 62 g-index
64 all docs	64 docs citations	64 times ranked	6289 citing authors

#	Article	IF	Citations
1	Imeglimin Is Neuroprotective Against Ischemic Brain Injury in Ratsâ€"a Study Evaluating Neuroinflammation and Mitochondrial Functions. Molecular Neurobiology, 2022, , 1.	4.0	2
2	Different effects of metformin and phenformin on hypoxia-induced Ca2+ fluxes in cultured primary neurons. Brain Research, 2021, 1750, 147151.	2.2	3
3	Epistatic effect of Ankyrin repeat and kinase domain containing 1 â€" Dopamine receptor D2 and catechol-o-methyltransferase single nucleotide polymorphisms on the risk for hazardous use of alcohol in Lithuanian population. Gene, 2021, 765, 145107.	2.2	2
4	Energy substrate metabolism and mitochondrial oxidative stress in cardiac ischemia/reperfusion injury. Free Radical Biology and Medicine, 2021, 165, 24-37.	2.9	76
5	Evaluation of the Effectiveness of Post-Stroke Metformin Treatment Using Permanent Middle Cerebral Artery Occlusion in Rats. Pharmaceuticals, 2021, 14, 312.	3.8	18
6	Effects of itaconic acid on neuronal viability and brain mitochondrial functions. Journal of Bioenergetics and Biomembranes, 2021, 53, 499-511.	2.3	3
7	Effects of Metformin on Spontaneous Ca2+ Signals in Cultured Microglia Cells under Normoxic and Hypoxic Conditions. International Journal of Molecular Sciences, 2021, 22, 9493.	4.1	2
8	Neuroprotective Effect of a Novel ATP-Synthase Inhibitor Bedaquiline in Cerebral Ischemia-Reperfusion Injury. International Journal of Molecular Sciences, 2021, 22, 9717.	4.1	0
9	Distinct Neurotoxic Effects of Extracellular Tau Species in Primary Neuronal-Glial Cultures. Molecular Neurobiology, 2021, 58, 658-667.	4.0	16
10	The microglial P2Y6 receptor mediates neuronal loss and memory deficits in neurodegeneration. Cell Reports, 2021, 37, 110148.	6.4	31
11	Anthocyanins: From plant pigments to health benefits at mitochondrial level. Critical Reviews in Food Science and Nutrition, 2020, 60, 3352-3365.	10.3	57
12	Extracellular tau induces microglial phagocytosis of living neurons in cell cultures. Journal of Neurochemistry, 2020, 154, 316-329.	3.9	35
13	Comparison of Effects of Metformin, Phenformin, and Inhibitors of Mitochondrial Complex I on Mitochondrial Permeability Transition and Ischemic Brain Injury. Biomolecules, 2020, 10, 1400.	4.0	16
14	Protective effects of anthocyanins against brain ischemic damage. Journal of Bioenergetics and Biomembranes, 2020, 52, 71-82.	2.3	10
15	Nitric Oxide Donor NOC-18-Induced Changes of Mitochondrial Phosphoproteome in Rat Cardiac Ischemia Model. Medicina (Lithuania), 2019, 55, 631.	2.0	3
16	Cerebrospinal fluids from Alzheimer's disease patients exhibit neurotoxic effects on neuronal cell cultures. European Journal of Neuroscience, 2019, 50, 1994-2006.	2.6	3
17	Neuronal Cell Death. Physiological Reviews, 2018, 98, 813-880.	28.8	737
18	Rotenone decreases ischemia-induced injury by inhibiting mitochondrial permeability transition in mature brains. Neuroscience Letters, 2017, 653, 45-50.	2.1	16

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19	Data on effects of rotenone on calcium retention capacity, respiration and activities of respiratory chain complexes I and II in isolated rat brain mitochondria. Data in Brief, 2017, 13, 707-712.	1.0	5
20	Methylene blue attenuates mitochondrial dysfunction of rat kidney during experimental acute pancreatitis. Journal of Digestive Diseases, 2016, 17, 186-192.	1.5	2
21	Anthocyanins in cardioprotection: A path through mitochondria. Pharmacological Research, 2016, 113, 808-815.	7.1	66
22	Anthocyanins as substrates for mitochondrial complex I â€“ protective effect against heart ischemic injury. FEBS Journal, 2015, 282, 963-971.	4.7	54
23	Neuroprotective effects of nitric oxide donor NOC-18 against brain ischemia-induced mitochondrial damages: role of PKG and PKC. Neuroscience Letters, 2015, 586, 65-70.	2.1	17
24	Small AÎ²_{1â€“42} oligomerâ€induced membrane depolarization of neuronal and microglial cells: Role of Nâ€methylâ€Dâ€aspartate receptors. Journal of Neuroscience Research, 2015, 93, 475-486.	2.9	27
25	Effects of standardized extract of Ginkgo biloba leaves EGb761 on mitochondrial functions: mechanism(s) of action and dependence on the source of mitochondria and respiratory substrate. Journal of Bioenergetics and Biomembranes, 2014, 46, 493-501.	2.3	11
26	Protective action of NADPH oxidase inhibitors and role of NADPH oxidase in pathogenesis of colon inflammation in mice. World Journal of Gastroenterology, 2014, 20, 12533.	3.3	23
27	Antibodies bound to AÎ² oligomers potentiate the neurotoxicity of AÎ² by activating microglia. Journal of Neurochemistry, 2013, 126, 604-615.	3.9	17
28	Experimental acute pancreatitis induces mitochondrial dysfunction in rat pancreas, kidney and lungs but not in liver. Pancreatology, 2013, 13, 216-224.	1.1	15
29	In the eye of the storm: mitochondrial damage during heart and brain ischaemia. FEBS Journal, 2013, 280, 4999-5014.	4.7	64
30	Anthocyanins block ischemia-induced apoptosis in the perfused heart and support mitochondrial respiration potentially by reducing cytosolic cytochrome c. International Journal of Biochemistry and Cell Biology, 2013, 45, 23-29.	2.8	52
31	Protecting the heart against ischemia/reperfusion-induced necrosis and apoptosis: the effect of anthocyanins. Medicina (Lithuania), 2013, 49, 84-8.	2.0	10
32	Influence of Ethanol Extract of Ginkgo biloba Leaves on the Isolated Rat Heart Work and Mitochondria Functions. Journal of Cardiovascular Pharmacology, 2012, 59, 450-457.	1.9	6
33	There is no evidence that mitochondria are the main source of reactive oxygen species in mammalian cells. Mitochondrion, 2012, 12, 1-4.	3.4	232
34	Phenomenological Kinetic and Control Analysis of Oxidative Phosphorylation in Isolated Mitochondria. Methods in Molecular Biology, 2012, 810, 135-152.	0.9	0
35	Tetramethylphenylenediamine protects the isolated heart against ischaemiaâ€induced apoptosis and reperfusionâ€induced necrosis. British Journal of Pharmacology, 2011, 162, 1136-1142.	5.4	7
36	Beta-amyloid oligomers: recent developments. Biomolecular Concepts, 2011, 2, 211-222.	2.2	8

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37	Effects of Ginkgo biloba extract on heart and liver mitochondrial functions: mechanism(s) of action. Journal of Bioenergetics and Biomembranes, 2010, 42, 165-172.	2.3	19
38	Mitochondria as decisionâ€makers in cell death. Environmental and Molecular Mutagenesis, 2010, 51, 406-416.	2.2	101
39	Size-dependent neurotoxicity of Î²-amyloid oligomers. Archives of Biochemistry and Biophysics, 2010, 496, 84-92.	3.0	157
40	Nitric oxide protects the heart from ischemia-induced apoptosis and mitochondrial damage via protein kinase G mediated blockage of permeability transition and cytochrome c release. Journal of Biomedical Science, 2009, 16, 70.	7.0	40
41	Effects of ischemia-reperfusion and pretreatment with mildronate on rat liver mitochondrial function. Pharmacological Reports, 2009, 61, 859-869.	3.3	6
42	Regulation of apoptosis by the redox state of cytochrome c. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 877-881.	1.0	171
43	AMPK, MAPK and Bax in the heart: some questions answered. Biochemical Journal, 2008, 412, e15-e16.	3.7	3
44	Mitochondrial Regulation of Caspase Activation by Cytochrome Oxidase and Tetramethylphenylenediamine via Cytosolic Cytochrome c Redox State. Journal of Biological Chemistry, 2007, 282, 31124-31130.	3.4	86
45	Nitric oxide and mitochondrial respiration in the heart. Cardiovascular Research, 2007, 75, 283-290.	3.8	177
46	Nitric oxide from neuronal nitric oxide synthase sensitises neurons to hypoxia-induced death via competitive inhibition of cytochrome oxidase. Journal of Neurochemistry, 2007, 103, 070710052154011-???.	3.9	36
47	S-nitrosothiol inhibition of mitochondrial complex I causes a reversible increase in mitochondrial hydrogen peroxide production. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 562-566.	1.0	56
48	Estradiol prevents release of cytochrome c from mitochondria and inhibits ischemia-induced apoptosis in perfused heart. Experimental Gerontology, 2006, 41, 704-708.	2.8	29
49	Arachidonate and NADPH oxidase synergise with iNOS to induce death in macrophages: mechanisms of inflammatory degeneration. Pharmacological Reports, 2006, 58 Suppl, 96-102.	3.3	1
50	NITRIC OXIDE FROM INDUCIBLE NITRIC OXIDE SYNTHASE SENSITIZES THE INFLAMED AORTA TO HYPOXIC DAMAGE VIA RESPIRATORY INHIBITION. Shock, 2005, 23, 319-323.	2.1	28
51	Inhibition of mitochondrial respiratory complex I by nitric oxide, peroxynitrite and S-nitrosothiols. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1658, 44-49.	1.0	292
52	Nitric oxide induces apoptosis via hydrogen peroxide, but necrosis via energy and thiol depletion. Free Radical Biology and Medicine, 2003, 35, 1457-1468.	2.9	86
53	S-Nitrosothiol-induced rapid cytochrome c release, caspase activation and mitochondrial permeability transition in perfused heart. Biochemical Pharmacology, 2003, 66, 1513-1519.	4.4	21
54	Nitric oxide and calcium together inactivate mitochondrial complex I and induce cytochrome c release. Journal of Molecular and Cellular Cardiology, 2003, 35, 803-809.	1.9	79

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55	Mitochondria in apoptosis of ischemic heart. FEBS Letters, 2003, 541, 1-5.	2.8	124
56	Inhibition of mitochondrial permeability transition prevents mitochondrial dysfunction, cytochrome c release and apoptosis induced by heart ischemia. Journal of Molecular and Cellular Cardiology, 2003, 35, 357-366.	1.9	170
57	Estrogens prevent calcium-induced release of cytochrome c from heart mitochondria. FEBS Letters, 2002, 521, 53-56.	2.8	38
58	Nitric oxide inhibition of mitochondrial respiration and its role in cell death. Free Radical Biology and Medicine, 2002, 33, 1440-1450.	2.9	323
59	Caspases are reversibly inactivated by hydrogen peroxide. FEBS Letters, 2001, 500, 114-118.	2.8	111
60	Reversible inhibition of cellular respiration by nitric oxide in vascular inflammation. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H2256-H2260.	3.2	34
61	Nitric oxide donors, nitrosothiols and mitochondrial respiration inhibitors induce caspase activation by different mechanisms. FEBS Letters, 2000, 467, 155-159.	2.8	63
62	Nitric oxide, cytochrome c and mitochondria. Biochemical Society Symposia, 1999, 66, 17-25.	2.7	169
63	Rapid reduction of nitric oxide by mitochondria, and reversible inhibition of mitochondrial respiration by nitric oxide. Biochemical Journal, 1996, 315, 295-299.	3.7	249
64	Control and kinetic analysis of ischemia-damaged heart mitochondria: which parts of the oxidative phosphorylation system are affected by ischemia?. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1995, 1272, 154-158.	3.8	88