

# Vilmante Borutaite

## List of Publications by Year in descending order

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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	Neuronal Cell Death. <i>Physiological Reviews</i> , 2018, 98, 813-880.	28.8	737
2	Nitric oxide inhibition of mitochondrial respiration and its role in cell death. <i>Free Radical Biology and Medicine</i> , 2002, 33, 1440-1450.	2.9	323
3	Inhibition of mitochondrial respiratory complex I by nitric oxide, peroxynitrite and S-nitrosothiols. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004, 1658, 44-49.	1.0	292
4	Rapid reduction of nitric oxide by mitochondria, and reversible inhibition of mitochondrial respiration by nitric oxide. <i>Biochemical Journal</i> , 1996, 315, 295-299.	3.7	249
5	There is no evidence that mitochondria are the main source of reactive oxygen species in mammalian cells. <i>Mitochondrion</i> , 2012, 12, 1-4.	3.4	232
6	Nitric oxide and mitochondrial respiration in the heart. <i>Cardiovascular Research</i> , 2007, 75, 283-290.	3.8	177
7	Regulation of apoptosis by the redox state of cytochrome c. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, 877-881.	1.0	171
8	Inhibition of mitochondrial permeability transition prevents mitochondrial dysfunction, cytochrome c release and apoptosis induced by heart ischemia. <i>Journal of Molecular and Cellular Cardiology</i> , 2003, 35, 357-366.	1.9	170
9	Nitric oxide, cytochrome c and mitochondria. <i>Biochemical Society Symposia</i> , 1999, 66, 17-25.	2.7	169
10	Size-dependent neurotoxicity of A $\beta$ -amyloid oligomers. <i>Archives of Biochemistry and Biophysics</i> , 2010, 496, 84-92.	3.0	157
11	Mitochondria in apoptosis of ischemic heart. <i>FEBS Letters</i> , 2003, 541, 1-5.	2.8	124
12	Caspases are reversibly inactivated by hydrogen peroxide. <i>FEBS Letters</i> , 2001, 500, 114-118.	2.8	111
13	Mitochondria as decision-makers in cell death. <i>Environmental and Molecular Mutagenesis</i> , 2010, 51, 406-416.	2.2	101
14	Control and kinetic analysis of ischemia-damaged heart mitochondria: which parts of the oxidative phosphorylation system are affected by ischemia?. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1995, 1272, 154-158.	3.8	88
15	Nitric oxide induces apoptosis via hydrogen peroxide, but necrosis via energy and thiol depletion. <i>Free Radical Biology and Medicine</i> , 2003, 35, 1457-1468.	2.9	86
16	Mitochondrial Regulation of Caspase Activation by Cytochrome Oxidase and Tetramethylphenylenediamine via Cytosolic Cytochrome c Redox State. <i>Journal of Biological Chemistry</i> , 2007, 282, 31124-31130.	3.4	86
17	Nitric oxide and calcium together inactivate mitochondrial complex I and induce cytochrome c release. <i>Journal of Molecular and Cellular Cardiology</i> , 2003, 35, 803-809.	1.9	79
18	Energy substrate metabolism and mitochondrial oxidative stress in cardiac ischemia/reperfusion injury. <i>Free Radical Biology and Medicine</i> , 2021, 165, 24-37.	2.9	76

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19	Anthocyanins in cardioprotection: A path through mitochondria. <i>Pharmacological Research</i> , 2016, 113, 808-815.	7.1	66
20	In the eye of the storm: mitochondrial damage during heart and brain ischaemia. <i>FEBS Journal</i> , 2013, 280, 4999-5014.	4.7	64
21	Nitric oxide donors, nitrosothiols and mitochondrial respiration inhibitors induce caspase activation by different mechanisms. <i>FEBS Letters</i> , 2000, 467, 155-159.	2.8	63
22	Anthocyanins: From plant pigments to health benefits at mitochondrial level. <i>Critical Reviews in Food Science and Nutrition</i> , 2020, 60, 3352-3365.	10.3	57
23	S-nitrosothiol inhibition of mitochondrial complex I causes a reversible increase in mitochondrial hydrogen peroxide production. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 562-566.	1.0	56
24	Anthocyanins as substrates for mitochondrial complex I "protective effect against heart ischemic injury. <i>FEBS Journal</i> , 2015, 282, 963-971.	4.7	54
25	Anthocyanins block ischemia-induced apoptosis in the perfused heart and support mitochondrial respiration potentially by reducing cytosolic cytochrome c. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 23-29.	2.8	52
26	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. <i>Journal of Biomedical Science</i> , 2009, 16, 70.	7.0	40
27	Estrogens prevent calcium-induced release of cytochrome c from heart mitochondria. <i>FEBS Letters</i> , 2002, 521, 53-56.	2.8	38
28	Nitric oxide from neuronal nitric oxide synthase sensitises neurons to hypoxia-induced death via competitive inhibition of cytochrome oxidase. <i>Journal of Neurochemistry</i> , 2007, 103, 070710052154011-???	3.9	36
29	Extracellular tau induces microglial phagocytosis of living neurons in cell cultures. <i>Journal of Neurochemistry</i> , 2020, 154, 316-329.	3.9	35
30	Reversible inhibition of cellular respiration by nitric oxide in vascular inflammation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 281, H2256-H2260.	3.2	34
31	The microglial P2Y6 receptor mediates neuronal loss and memory deficits in neurodegeneration. <i>Cell Reports</i> , 2021, 37, 110148.	6.4	31
32	Estradiol prevents release of cytochrome c from mitochondria and inhibits ischemia-induced apoptosis in perfused heart. <i>Experimental Gerontology</i> , 2006, 41, 704-708.	2.8	29
33	NITRIC OXIDE FROM INDUCIBLE NITRIC OXIDE SYNTHASE SENSITIZES THE INFLAMED AORTA TO HYPOXIC DAMAGE VIA RESPIRATORY INHIBITION. <i>Shock</i> , 2005, 23, 319-323.	2.1	28
34	Small $\text{A}\beta_{42}$ oligomer-induced membrane depolarization of neuronal and microglial cells: Role of N-methyl-D-aspartate receptors. <i>Journal of Neuroscience Research</i> , 2015, 93, 475-486.	2.9	27
35	Protective action of NADPH oxidase inhibitors and role of NADPH oxidase in pathogenesis of colon inflammation in mice. <i>World Journal of Gastroenterology</i> , 2014, 20, 12533.	3.3	23
36	S-Nitrosothiol-induced rapid cytochrome c release, caspase activation and mitochondrial permeability transition in perfused heart. <i>Biochemical Pharmacology</i> , 2003, 66, 1513-1519.	4.4	21

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37	Effects of Ginkgo biloba extract on heart and liver mitochondrial functions: mechanism(s) of action. <i>Journal of Bioenergetics and Biomembranes</i> , 2010, 42, 165-172.	2.3	19
38	Evaluation of the Effectiveness of Post-Stroke Metformin Treatment Using Permanent Middle Cerebral Artery Occlusion in Rats. <i>Pharmaceuticals</i> , 2021, 14, 312.	3.8	18
39	Antibodies bound to A $\beta$ oligomers potentiate the neurotoxicity of A $\beta$ by activating microglia. <i>Journal of Neurochemistry</i> , 2013, 126, 604-615.	3.9	17
40	Neuroprotective effects of nitric oxide donor NOC-18 against brain ischemia-induced mitochondrial damages: role of PKG and PKC. <i>Neuroscience Letters</i> , 2015, 586, 65-70.	2.1	17
41	Rotenone decreases ischemia-induced injury by inhibiting mitochondrial permeability transition in mature brains. <i>Neuroscience Letters</i> , 2017, 653, 45-50.	2.1	16
42	Comparison of Effects of Metformin, Phenformin, and Inhibitors of Mitochondrial Complex I on Mitochondrial Permeability Transition and Ischemic Brain Injury. <i>Biomolecules</i> , 2020, 10, 1400.	4.0	16
43	Distinct Neurotoxic Effects of Extracellular Tau Species in Primary Neuronal-Glial Cultures. <i>Molecular Neurobiology</i> , 2021, 58, 658-667.	4.0	16
44	Experimental acute pancreatitis induces mitochondrial dysfunction in rat pancreas, kidney and lungs but not in liver. <i>Pancreatology</i> , 2013, 13, 216-224.	1.1	15
45	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. <i>Journal of Bioenergetics and Biomembranes</i> , 2014, 46, 493-501.	2.3	11
46	Protective effects of anthocyanins against brain ischemic damage. <i>Journal of Bioenergetics and Biomembranes</i> , 2020, 52, 71-82.	2.3	10
47	Protecting the heart against ischemia/reperfusion-induced necrosis and apoptosis: the effect of anthocyanins. <i>Medicina (Lithuania)</i> , 2013, 49, 84-8.	2.0	10
48	Beta-amyloid oligomers: recent developments. <i>Biomolecular Concepts</i> , 2011, 2, 211-222.	2.2	8
49	Tetramethylphenylenediamine protects the isolated heart against ischaemia-induced apoptosis and reperfusion-induced necrosis. <i>British Journal of Pharmacology</i> , 2011, 162, 1136-1142.	5.4	7
50	Effects of ischemia-reperfusion and pretreatment with mildronate on rat liver mitochondrial function. <i>Pharmacological Reports</i> , 2009, 61, 859-869.	3.3	6
51	Influence of Ethanol Extract of Ginkgo biloba Leaves on the Isolated Rat Heart Work and Mitochondria Functions. <i>Journal of Cardiovascular Pharmacology</i> , 2012, 59, 450-457.	1.9	6
52	Data on effects of rotenone on calcium retention capacity, respiration and activities of respiratory chain complexes I and II in isolated rat brain mitochondria. <i>Data in Brief</i> , 2017, 13, 707-712.	1.0	5
53	AMPK, MAPK and Bax in the heart: some questions answered. <i>Biochemical Journal</i> , 2008, 412, e15-e16.	3.7	3
54	Nitric Oxide Donor NOC-18-Induced Changes of Mitochondrial Phosphoproteome in Rat Cardiac Ischemia Model. <i>Medicina (Lithuania)</i> , 2019, 55, 631.	2.0	3

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55	Cerebrospinal fluids from Alzheimer's disease patients exhibit neurotoxic effects on neuronal cell cultures. <i>European Journal of Neuroscience</i> , 2019, 50, 1994-2006.	2.6	3
56	Different effects of metformin and phenformin on hypoxia-induced Ca <sup>2+</sup> fluxes in cultured primary neurons. <i>Brain Research</i> , 2021, 1750, 147151.	2.2	3
57	Effects of itaconic acid on neuronal viability and brain mitochondrial functions. <i>Journal of Bioenergetics and Biomembranes</i> , 2021, 53, 499-511.	2.3	3
58	Methylene blue attenuates mitochondrial dysfunction of rat kidney during experimental acute pancreatitis. <i>Journal of Digestive Diseases</i> , 2016, 17, 186-192.	1.5	2
59	Epistatic effect of Ankyrin repeat and kinase domain containing 1 " Dopamine receptor D2 and catechol-o-methyltransferase single nucleotide polymorphisms on the risk for hazardous use of alcohol in Lithuanian population. <i>Gene</i> , 2021, 765, 145107.	2.2	2
60	Effects of Metformin on Spontaneous Ca <sup>2+</sup> Signals in Cultured Microglia Cells under Normoxic and Hypoxic Conditions. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9493.	4.1	2
61	Imeglimin Is Neuroprotective Against Ischemic Brain Injury in Rats" a Study Evaluating Neuroinflammation and Mitochondrial Functions. <i>Molecular Neurobiology</i> , 2022, , 1.	4.0	2
62	Arachidonate and NADPH oxidase synergise with iNOS to induce death in macrophages: mechanisms of inflammatory degeneration. <i>Pharmacological Reports</i> , 2006, 58 Suppl, 96-102.	3.3	1
63	Phenomenological Kinetic and Control Analysis of Oxidative Phosphorylation in Isolated Mitochondria. <i>Methods in Molecular Biology</i> , 2012, 810, 135-152.	0.9	0
64	Neuroprotective Effect of a Novel ATP-Synthase Inhibitor Bedaquiline in Cerebral Ischemia-Reperfusion Injury. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9717.	4.1	0