Jamal Bouitbir

List of Publications by Year
in descending order

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73 papers	2,154 citations	201674 27 h-index	254184 43 g-index
77 all docs	77 docs citations	77 times ranked	3262 citing authors

#	Article	IF	Citations
1	Opposite effects of statins on mitochondria of cardiac and skeletal muscles: a â€˜mitohormesisâ€™ mechanism involving reactive oxygen species and PGC-1. European Heart Journal, 2012, 33, 1397-1407.	2.2	203
2	Mechanisms of Hepatocellular Toxicity Associated with Dronedaroneâ€”A Comparison to Amiodarone. Toxicological Sciences, 2013, 131, 480-490.	3.1	104
3	Reductive stress impairs myoblasts mitochondrial function and triggers mitochondrial hormesis. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 1574-1585.	4.1	80
4	Hepatocellular Toxicity Associated with Tyrosine Kinase Inhibitors: Mitochondrial Damage and Inhibition of Glycolysis. Frontiers in Pharmacology, 2017, 8, 367.	3.5	78
5	Mechanisms of statin-associated skeletal muscle-associated symptoms. Pharmacological Research, 2020, 154, 104201.	7.1	77
6	Statins Trigger Mitochondrial Reactive Oxygen Species-Induced Apoptosis in Glycolytic Skeletal Muscle. Antioxidants and Redox Signaling, 2016, 24, 84-98.	5.4	75
7	Mitochondria: Mitochondrial participation in ischemiaâ€“reperfusion injury in skeletal muscle. International Journal of Biochemistry and Cell Biology, 2014, 50, 101-105.	2.8	71
8	The AKT/mTOR signaling pathway plays a key role in statin-induced myotoxicity. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 1841-1849.	4.1	70
9	Atorvastatin treatment reduces exercise capacities in rats: involvement of mitochondrial impairments and oxidative stress. Journal of Applied Physiology, 2011, 111, 1477-1483.	2.5	69
10	Hepatocellular Toxicity of Imidazole and Triazole Antimycotic Agents. Toxicological Sciences, 2017, 157, 183-195.	3.1	58
11	Effect of postconditioning on mitochondrial dysfunction in experimental aortic cross-clamping. British Journal of Surgery, 2011, 98, 511-516.	0.3	49
12	Mechanisms of toxicity associated with six tyrosine kinase inhibitors in human hepatocyte cell lines. Journal of Applied Toxicology, 2018, 38, 418-431.	2.8	48
13	Mechanisms of mitochondrial toxicity of the kinase inhibitors ponatinib, regorafenib and sorafenib in human hepatic HepG2 cells. Toxicology, 2018, 395, 34-44.	4.2	47
14	Remote and local ischemic preconditioning equivalently protects rat skeletal muscle mitochondrial function during experimental aortic cross-clamping. Journal of Vascular Surgery, 2012, 55, 497-505.e1.	1.1	45
15	Skeletal muscle mitochondrial dysfunction precedes right ventricular impairment in experimental pulmonary hypertension. Molecular and Cellular Biochemistry, 2013, 373, 161-170.	3.1	44
16	Mitochondria of trained skeletal muscle are protected from deleterious effects of statins. Muscle and Nerve, 2012, 46, 367-373.	2.2	43
17	Dynein mutations associated with hereditary motor neuropathies impair mitochondrial morphology and function with age. Neurobiology of Disease, 2013, 58, 220-230.	4.4	40
18	Simvastatin induces mitochondrial dysfunction and increased atrogin-1 expression in H9c2 cardiomyocytes and mice in vivo. Archives of Toxicology, 2016, 90, 203-215.	4.2	40

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19	Muscles Susceptibility to Ischemia-Reperfusion Injuries Depends on Fiber Type Specific Antioxidant Level. Frontiers in Physiology, 2017, 8, 52.	2.8	40
20	Mitochondrial oxidative stress plays a critical role in the cardiotoxicity of sunitinib. Toxicology, 2019, 426, 152281.	4.2	40
21	Different Timing of Changes in Mitochondrial Functions following Endurance Training. Medicine and Science in Sports and Exercise, 2012, 44, 217-224.	0.4	39
22	The catechol-O-methyltransferase inhibitors tolcapone and entacapone uncouple and inhibit the mitochondrial respiratory chain in HepaRG cells. Toxicology in Vitro, 2017, 42, 337-347.	2.4	32
23	Imatinib and Dasatinib Provoke Mitochondrial Dysfunction Leading to Oxidative Stress in C2C12 Myotubes and Human RD Cells. Frontiers in Pharmacology, 2020, 11, 1106.	3.5	32
24	Effect of l-carnitine supplementation on the body carnitine pool, skeletal muscle energy metabolism and physical performance in male vegetarians. European Journal of Nutrition, 2016, 55, 207-217.	3.9	31
25	Oxidative stress precedes skeletal muscle mitochondrial dysfunction during experimental aortic cross-clamping but is not associated with early lung, heart, brain, liver, or kidney mitochondrial impairment. Journal of Vascular Surgery, 2014, 60, 1043-1051.e5.	1.1	30
26	Contralateral Leg as a Control During Skeletal Muscle Ischemia-Reperfusion. Journal of Surgical Research, 2009, 155, 65-69.	1.6	29
27	Impact of iron oxide nanoparticles on brain, heart, lung, liver and kidneys mitochondrial respiratory chain complexes activities and coupling. Toxicology in Vitro, 2013, 27, 2142-2148.	2.4	29
28	Pretreatment with brain natriuretic peptide reduces skeletal muscle mitochondrial dysfunction and oxidative stress after ischemia-reperfusion. Journal of Applied Physiology, 2013, 114, 172-179.	2.5	28
29	Age Modulates Fe₃O₄Nanoparticles Liver Toxicity: Dose-Dependent Decrease in Mitochondrial Respiratory Chain Complexes Activities and Coupling in Middle-Aged as Compared to Young Rats. BioMed Research International, 2014, 2014, 1-10.	1.9	28
30	Hepatic toxicity of dronedarone in mice: Role of mitochondrial Î²-oxidation. Toxicology, 2014, 323, 1-9.	4.2	28
31	Development and Validation of a Highly Sensitive LC-MS/MS Method for the Analysis of Bile Acids in Serum, Plasma, and Liver Tissue Samples. Metabolites, 2020, 10, 282.	2.9	28
32	Effect of eccentric versus concentric exercise training on mitochondrial function. Muscle and Nerve, 2014, 50, 803-811.	2.2	26
33	Pressure overload-induced mild cardiac hypertrophy reduces left ventricular transmural differences in mitochondrial respiratory chain activity and increases oxidative stress. Frontiers in Physiology, 2012, 3, 332.	2.8	25
34	Diabetes Worsens Skeletal Muscle Mitochondrial Function, Oxidative Stress, and Apoptosis After Lower-Limb Ischemia-Reperfusion: Implication of the RISK and SAFE Pathways?. Frontiers in Physiology, 2018, 9, 579.	2.8	25
35	Remote and local ischemic postconditioning further impaired skeletal muscle mitochondrial function after ischemia-reperfusion. Journal of Vascular Surgery, 2012, 56, 774-782.e1.	1.1	24
36	Mechanisms of insulin resistance by simvastatin in C2C12 myotubes and in mouse skeletal muscle. Biochemical Pharmacology, 2019, 164, 23-33.	4.4	24

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37	Hepatocellular toxicity of clopidogrel: Mechanisms and risk factors. Free Radical Biology and Medicine, 2013, 65, 208-216.	2.9	23
38	Methylene Blue Protects Liver Oxidative Capacity after Gut Ischaemiaâ€“Reperfusion in the Rat. European Journal of Vascular and Endovascular Surgery, 2013, 45, 168-175.	1.5	23
39	IGF-1 prevents simvastatin-induced myotoxicity in C2C12 myotubes. Archives of Toxicology, 2017, 91, 2223-2234.	4.2	23
40	Sunitinib induces hepatocyte mitochondrial damage and apoptosis in mice. Toxicology, 2018, 409, 13-23.	4.2	21
41	The uricosuric benzbromarone disturbs the mitochondrial redox homeostasis and activates the NRF2 signaling pathway in HepG2 cells. Free Radical Biology and Medicine, 2020, 152, 216-226.	2.9	20
42	Molecular Toxicological Mechanisms of Synthetic Cathinones on C2C12 Myoblasts. International Journal of Molecular Sciences, 2019, 20, 1561.	4.1	18
43	Compartmentalization of Inflammatory Response Following Gut Ischemia Reperfusion. European Journal of Vascular and Endovascular Surgery, 2015, 49, 60-65.	1.5	17
44	PGC-1Î² modulates statin-associated myotoxicity in mice. Archives of Toxicology, 2019, 93, 487-504.	4.2	17
45	PGCâ€1Î± plays a pivotal role in simvastatinâ€induced exercise impairment in mice. Acta Physiologica, 2020, 228, e13402.	3.8	14
46	Local but not Systemic Capillary Lactate is a Reperfusion Biomarker in Experimental Acute Limb Ischaemia. European Journal of Vascular and Endovascular Surgery, 2012, 43, 339-340.	1.5	12
47	Insulin prevents and reverts simvastatin-induced toxicity in C2C12 skeletal muscle cells. Scientific Reports, 2019, 9, 7409.	3.3	12
48	Effect of carnitine, acetyl-, and propionylcarnitine supplementation on the body carnitine pool, skeletal muscle composition, and physical performance in mice. European Journal of Nutrition, 2014, 53, 1313-1325.	3.9	11
49	Impaired mitochondrial function in HepG2 cells treated with hydroxy-cobalamin[c-lactam]: A cell model for idiosyncratic toxicity. Toxicology, 2015, 336, 48-58.	4.2	11
50	Para-Halogenation of Amphetamine and Methcathinone Increases the Mitochondrial Toxicity in Undifferentiated and Differentiated SH-SY5Y Cells. International Journal of Molecular Sciences, 2020, 21, 2841.	4.1	11
51	Liver Cirrhosis Affects the Pharmacokinetics of the Six Substrates of the BaselÂPhenotyping Cocktail Differently. Clinical Pharmacokinetics, 2022, 61, 1039-1055.	3.5	11
52	Effect of chronic preâ€treatment with angiotensin converting enzyme inhibition on skeletal muscle mitochondrial recovery after ischemia/reperfusion. Fundamental and Clinical Pharmacology, 2010, 24, 333-340.	1.9	10
53	Isoflurane Anesthesia Preserves Liver and Lung Mitochondrial Oxidative Capacity After Gut Ischemiaâ€“Reperfusion. Anesthesia and Analgesia, 2011, 113, 1438-1441.	2.2	10
54	Mitochondrial Toxicity Associated with Imatinib and Sorafenib in Isolated Rat Heart Fibers and the Cardiomyoblast H9c2 Cell Line. International Journal of Molecular Sciences, 2022, 23, 2282.	4.1	10

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55	Effect of the Catechol-O-Methyltransferase Inhibitors Tolcapone and Entacapone on Fatty Acid Metabolism in HepaRG Cells. Toxicological Sciences, 2018, 164, 477-488.	3.1	9
56	Lapatinib Activates the Kelch-Like ECH-Associated Protein 1-Nuclear Factor Erythroid 2-Related Factor 2 Pathway in HepG2 Cells. Frontiers in Pharmacology, 2020, 11, 944.	3.5	9
57	Contractile function and energy metabolism of skeletal muscle in rats with secondary carnitine deficiency. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E265-E274.	3.5	8
58	Left Ventricular Transmural Gradient in Mitochondrial Respiration Is Associated with Increased Sub-Endocardium Nitric Oxide and Reactive Oxygen Species Productions. Frontiers in Physiology, 2016, 7, 331.	2.8	8
59	Hepatotoxicity Due to Azole Antimycotic Agents in a HLA B*35:02-Positive Patient. Frontiers in Pharmacology, 2019, 10, 645.	3.5	8
60	C2C12 myoblasts are more sensitive to the toxic effects of simvastatin than myotubes and show impaired proliferation and myotube formation. Biochemical Pharmacology, 2021, 190, 114649.	4.4	8
61	mTORC2 is an important target for simvastatin-associated toxicity in C2C12 cells and mouse skeletal muscle â€“ Roles of Rap1 geranylgeranylation and mitochondrial dysfunction. Biochemical Pharmacology, 2021, 192, 114750.	4.4	8
62	Exogenous Iron Increases Fasciocidal Activity and Hepatocellular Toxicity of the Synthetic Endoperoxides OZ78 and MT04. International Journal of Molecular Sciences, 2019, 20, 4880.	4.1	7
63	Hyperthermia Increases Neurotoxicity Associated with Novel Methcathinones. Cells, 2020, 9, 965.	4.1	7
64	Impaired Exercise Performance and Skeletal Muscle Mitochondrial Function in Rats with Secondary Carnitine Deficiency. Frontiers in Physiology, 2016, 7, 345.	2.8	5
65	Apparent Km of mitochondria for oxygen computed from Vmax measured in permeabilized muscle fibers is lower in water enriched in oxygen by electrolysis than injection. Drug Design, Development and Therapy, 2015, 9, 3589.	4.3	4
66	Simvastatin Impairs Glucose Homeostasis in Mice Depending on PGC-1Î± Skeletal Muscle Expression. Biomedicines, 2020, 8, 351.	3.2	4
67	Imatinib disturbs lysosomal function and morphology and impairs the activity of mTORC1 in human hepatocyte cell lines. Food and Chemical Toxicology, 2022, 162, 112869.	3.6	4
68	Reactive Metamizole Metabolites Enhance the Toxicity of Hemin on the ATP Pool in HL60 Cells by Inhibition of Glycolysis. Biomedicines, 2020, 8, 212.	3.2	3
69	Hepatic Effects of Pharmacological Doses of Hydroxy-Cobalamin[c-lactam] in Mice. PLoS ONE, 2017, 12, e0171026.	2.5	3
70	Effects of Simvastatin on Lipid Metabolism in Wild-Type Mice and Mice with Muscle PGC-1Î± Overexpression. International Journal of Molecular Sciences, 2021, 22, 4950.	4.1	2
71	Comparative Effects of Metamizole (Dipyrone) and Naproxen on Renal Function and Prostacyclin Synthesis in Salt-Depleted Healthy Subjects - A Randomized Controlled Parallel Group Study. Frontiers in Pharmacology, 2021, 12, 620635.	3.5	2
72	Implication of Lipids in Calcified Aortic Valve Pathogenesis: Why Did Statins Fail?. Journal of Clinical Medicine, 2022, 11, 3331.	2.4	2

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73	Lapatinib Activates the Kelch-Like ECH-Associated Protein 1-Nuclear Factor Erythroid 2-Related Factor 2 Pathway in HepG2 Cells. , 2020, , .		0