Yan Burelle

List of Publications by Year
in descending order

82 papers	10,263 citations	109321 35 h-index	74163 75 g-index
83 all docs	83 docs citations	83 times ranked	20304 citing authors

#	Article	IF	Citations
1	Oxidative stress-induced senescence mediates inflammatory and fibrotic phenotypes in fibroblasts from systemic sclerosis patients. Rheumatology, 2022, 61, 1265-1275.	1.9	19
2	Cardiac Left Ventricle Mitochondrial Dysfunction After Neonatal Exposure to Hyperoxia: Relevance for Cardiomyopathy After Preterm Birth. Hypertension, 2022, 79, 575-587.	2.7	4
3	The intra-mitochondrial O-GlcNAcylation system rapidly modulates OXPHOS function and ROS release in the heart. Communications Biology, 2022, 5, 349.	4.4	17
4	Metabolic and Cardiac Manifestations in a Mouse Model of Genetic Mitochondrial Hepatopathy Without Obesity: Evidence for a Sexual Dimorphism. FASEB Journal, 2022, 36, .	0.5	0
5	Effects of (â˜)-epicatechin on mitochondria. Nutrition Reviews, 2021, 79, 25-41.	5.8	25
6	Protein Oâ€GlcNAcylation levels are regulated independently of dietary intake in a tissue and timeâ€specific manner during rat postnatal development. Acta Physiologica, 2021, 231, e13566.	3.8	11
7	Grx2 Regulates Skeletal Muscle Mitochondrial Structure and Autophagy. Frontiers in Physiology, 2021, 12, 604210.	2.8	7
8	Proteomics characterization of mitochondrialâ€derived vesicles under oxidative stress. FASEB Journal, 2021, 35, e21278.	0.5	36
9	Adaptive optimization of the OXPHOS assembly line partially compensates lrpprc-dependent mitochondrial translation defects in mice. Communications Biology, 2021, 4, 989.	4.4	4
10	Dietary Cocoa Flavanols Enhance Mitochondrial Function in Skeletal Muscle and Modify Whole-Body Metabolism in Healthy Mice. Nutrients, 2021, 13, 3466.	4.1	5
11	A recurrent de novo ATP5F1A substitution associated with neonatal complex V deficiency. European Journal of Human Genetics, 2021, 29, 1719-1724.	2.8	2
12	Mitophagy: A New Player in Stem Cell Biology. Biology, 2020, 9, 481.	2.8	15
13	Mitochondrial Metabolic Uncoupling in Maladaptive Right Ventricular Remodeling in Response to Pressure Overload in Fischer Rats. , 2020, , .		0
14	MCL-1Matrix maintains neuronal survival by enhancing mitochondrial integrity and bioenergetic capacity under stress conditions. Cell Death and Disease, 2020, 11, 321.	6.3	68
15	Fiber-specific and whole-muscle LRP130 expression in rested, exercised, and fasted human skeletal muscle. Pflugers Archiv European Journal of Physiology, 2020, 472, 375-384.	2.8	4
16	Abstract 13917: O -GlcNAc Levels Are Regulated in a Time and Tissue Specific Manner Independently of Dietary Intake. Circulation, 2020, 142, .	1.6	0
17	Mitochondrial psychobiology: foundations and applications. Current Opinion in Behavioral Sciences, 2019, 28, 142-151.	3.9	28
18	Hybrid Clear/Blue Native Electrophoresis for the Separation and Analysis of Mitochondrial Respiratory Chain Supercomplexes. Journal of Visualized Experiments, 2019, , .	0.3	3

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19	Nutritional Regulation of Mitochondrial Function. , 2019, , 93-126.		5
20	Mitochondrial quality control in the cardiac system: An integrative view. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 782-796.	3.8	18
21	Lipidomics unveils lipid dyshomeostasis and low circulating plasmalogens as biomarkers in a monogenic mitochondrial disorder. JCI Insight, 2019, 4, .	5.0	26
22	A Mitochondrial Health Index Sensitive to Mood and Caregiving Stress. Biological Psychiatry, 2018, 84, 9-17.	1.3	82
23	Protective role of Parkin in skeletal muscle contractile and mitochondrial function. Journal of Physiology, 2018, 596, 2565-2579.	2.9	72
24	Adiponectin has a pivotal role in the cardioprotective effect of CPâ€3(iv), a selective CD36 azapeptide ligand, after transient coronary artery occlusion in mice. FASEB Journal, 2018, 32, 807-818.	0.5	16
25	Mitochondrial Oxidative Stress Reduces the Immunopotency of Mesenchymal Stromal Cells in Adults With Coronary Artery Disease. Circulation Research, 2018, 122, 255-266.	4.5	46
26	61. Developing Sensitive Measurements of Mitochondrial Responses to Acute and Chronic Stress. Biological Psychiatry, 2018, 83, S25.	1.3	1
27	A Linear Fragment of Unacylated Ghrelin (UAG6â˜13) Protects Against Myocardial Ischemia/Reperfusion Injury in Mice in a Growth Hormone Secretagogue Receptor-Independent Manner. Frontiers in Endocrinology, 2018, 9, 798.	3.5	9
28	Loss of hepatic LRPPRC alters mitochondrial bioenergetics, regulation of permeability transition and trans-membrane ROS diffusion. Human Molecular Genetics, 2017, 26, 3186-3201.	2.9	36
29	Regulation of ULK1 Expression and Autophagy by STAT1. Journal of Biological Chemistry, 2017, 292, 1899-1909.	3.4	24
30	Formation of mitochondrialâ€derived vesicles is an active and physiologically relevant mitochondrial quality control process in the cardiac system. Journal of Physiology, 2016, 594, 5343-5362.	2.9	113
31	The rise of mitochondria in medicine. Mitochondrion, 2016, 30, 105-116.	3.4	349
32	Parkinsonâ€™s Disease-Related Proteins PINK1 and Parkin Repress Mitochondrial Antigen Presentation. Cell, 2016, 166, 314-327.	28.9	429
33	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
34	A Metabolic Signature of Mitochondrial Dysfunction Revealed through a Monogenic Form of Leigh Syndrome. Cell Reports, 2015, 13, 981-989.	6.4	113
35	Mitochondrial Vulnerability and Increased Susceptibility to Nutrient-Induced Cytotoxicity in Fibroblasts from Leigh Syndrome French Canadian Patients. PLoS ONE, 2015, 10, e0120767.	2.5	29
36	Interdependence of Parkin-Mediated Mitophagy and Mitochondrial Fission in Adult Mouse Hearts. Circulation Research, 2015, 117, 346-351.	4.5	172

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37	Mechanical ventilation triggers abnormal mitochondrial dynamics and morphology in the diaphragm. Journal of Applied Physiology, 2015, 118, 1161-1171.	2.5	66
38	Tissue-specific responses to the LRPPRC founder mutation in French Canadian Leigh Syndrome. Human Molecular Genetics, 2015, 24, 480-491.	2.9	41
39	Cyclosporine A Treatment Inhibits Abcc6-Dependent Cardiac Necrosis and Calcification following Coxsackievirus B3 Infection in Mice. PLoS ONE, 2015, 10, e0138222.	2.5	10
40	Histopathology and Mitochondrial Function in Liverâ€Specific LRPPRC Knockout Mice. FASEB Journal, 2015, 29, 1036.2.	0.5	2
41	The Relationship between Muscle Fiber Type-Specific PGC-1Î± Content and Mitochondrial Content Varies between Rodent Models and Humans. PLoS ONE, 2014, 9, e103044.	2.5	104
42	An Official American Thoracic Society/European Respiratory Society Statement: Update on Limb Muscle Dysfunction in Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2014, 189, e15-e62.	5.6	793
43	Mitochondrial Contagion Induced by Parkin Deficiency in Drosophila Hearts and Its Containment by Suppressing Mitofusin. Circulation Research, 2014, 114, 257-265.	4.5	129
44	Effect of eccentric versus concentric exercise training on mitochondrial function. Muscle and Nerve, 2014, 50, 803-811.	2.2	26
45	Role of peroxisome proliferator-activated receptor gamma coactivator 1-alpha (PGC-1Î±) in denervation-induced atrophy in aged muscle: facts and hypotheses. Longevity & Healthspan, 2013, 2, 13.	6.7	24
46	Mitochondrial morphology transitions and functions: implications for retrograde signaling?. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 304, R393-R406.	1.8	242
47	Autophagic flux and oxidative capacity of skeletal muscles during acute starvation. Autophagy, 2013, 9, 1604-1620.	9.1	59
48	Protective role of PARK2/Parkin in sepsis-induced cardiac contractile and mitochondrial dysfunction. Autophagy, 2013, 9, 1837-1851.	9.1	133
49	Different Timing of Changes in Mitochondrial Functions following Endurance Training. Medicine and Science in Sports and Exercise, 2012, 44, 217-224.	0.4	39
50	Mitochondrial functional specialization in glycolytic and oxidative muscle fibers: tailoring the organelle for optimal function. American Journal of Physiology - Cell Physiology, 2012, 302, C629-C641.	4.6	170
51	Mitochondrial Dysfunction and Lipid Accumulation in the Human Diaphragm during Mechanical Ventilation. American Journal of Respiratory and Critical Care Medicine, 2012, 186, 1140-1149.	5.6	648
52	AMPK Activation Stimulates Autophagy and Ameliorates Muscular Dystrophy in the mdx Mouse Diaphragm. American Journal of Pathology, 2012, 181, 583-592.	3.8	194
53	Peroxisome proliferatorâ€activated receptor Î³ coactivator 1â€Î± gene transfer restores mitochondrial biomass and improves mitochondrial calcium handling in postâ€necrotic mdx mouse skeletal muscle. Journal of Physiology, 2012, 590, 5487-5502.	2.9	66
54	Mitochondria: Starving to reach quorum?. BioEssays, 2012, 34, 272-274.	2.5	17

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55	Autophagy and Skeletal Muscles in Sepsis. PLoS ONE, 2012, 7, e47265.	2.5	96
56	Mitochondrial Functional Specialization in Glycolytic and Oxidative Muscle Fibers: Tailoring the Organelle for Optimal Function. FASEB Journal, 2012, 26, 887.19.	0.5	0
57	Cyclophilinâ€Ð is dispensable for atrophy and mitochondrial apoptotic signalling in denervated muscle. Journal of Physiology, 2011, 589, 855-861.	2.9	5
58	Lower oxidative DNA damage despite greater ROS production in muscles from rats selectively bred for high running capacity. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 300, R544-R553.	1.8	60
59	Stress-induced opening of the permeability transition pore in the dystrophin-deficient heart is attenuated by acute treatment with sildenafil. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H144-H153.	3.2	77
60	Early predictors of cardiac decompensation in experimental volume overload. Molecular and Cellular Biochemistry, 2010, 338, 271-282.	3.1	25
61	Alterations in mitochondrial function as a harbinger of cardiomyopathy: Lessons from the dystrophic heart. Journal of Molecular and Cellular Cardiology, 2010, 48, 310-321.	1.9	43
62	Increased expression and intramitochondrial translocation of cyclophilin-D associates with increased vulnerability of the permeability transition pore to stress-induced opening during compensated ventricular hypertrophy. Journal of Molecular and Cellular Cardiology, 2009, 46, 420-430.	1.9	56
63	Resistance to Ca²⁺-induced opening of the permeability transition pore differs in mitochondria from glycolytic and oxidative muscles. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 295, R659-R668.	1.8	79
64	The Mitochondrial Phenotype of Peripheral Muscle in Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2008, 178, 1040-1047.	5.6	87
65	Implication of Cyclophilin D and Permeability Transition Pore in Mitochondrial Vulnerability of Compensated Heart Hypertrophy. FASEB Journal, 2008, 22, 1238.17.	0.5	1
66	Strainâ€Ðependence in Susceptibility to Heart Failure: Role of Mitochondria. FASEB Journal, 2008, 22, .	0.5	0
67	Circulating lipids are lowered but pancreatic islet lipid metabolism and insulin secretion are unaltered in exercise-trained female rats. Applied Physiology, Nutrition and Metabolism, 2007, 32, 241-248.	1.9	10
68	A52. Chronic volume overload increases the vulnerability of cardiac mitochondria without affecting their basal functions. Journal of Molecular and Cellular Cardiology, 2006, 40, 865-866.	1.9	0
69	Compensated volume overload increases the vulnerability of heart mitochondria without affecting their functions in the absence of stress. Journal of Molecular and Cellular Cardiology, 2006, 41, 998-1009.	1.9	45
70	Comparison of exogenous glucose, fructose and galactose oxidation during exercise using C-labelling. British Journal of Nutrition, 2006, 96, 56.	2.3	42
71	Disparate Regulation of Signaling Proteins after Exercise and Myocardial Infarction. Medicine and Science in Sports and Exercise, 2006, 38, 455-462.	0.4	13
72	Muscle denervation promotes opening of the permeability transition pore and increases the expression of cyclophilin D. Journal of Physiology, 2006, 574, 319-327.	2.9	62

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73	Short Term Training Attenuates Opening of the Mitochondrial Permeability Transition Pore Without Affecting Myocardial Function Following Ischemia-Reperfusion. Molecular and Cellular Biochemistry, 2006, 291, 39-47.	3.1	18
74	Exercise training induces respiratory substrate-specific decrease in Ca2+-induced permeability transition pore opening in heart mitochondria. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H1549-H1557.	3.2	60
75	Regular exercise is associated with a protective metabolic phenotype in the rat heart. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H1055-H1063.	3.2	103
76	Control of maximum metabolic rate in humans: Dependence on performance phenotypes. Molecular and Cellular Biochemistry, 2004, 256, 95-103.	3.1	13
77	Endurance training induces muscle-specific changes in mitochondrial function in skinned muscle fibers. Journal of Applied Physiology, 2002, 92, 2429-2438.	2.5	61
78	Differential metabolic fate of the carbon skeleton and amino-N of [13C]alanine and [15N]alanine ingested during prolonged exercise. Journal of Applied Physiology, 2002, 93, 499-504.	2.5	13
79	Effects of acute exercise on the gluconeogenic capacity of periportal and perivenous hepatocytes. Journal of Applied Physiology, 2001, 91, 1099-1104.	2.5	6
80	Oxidation of [¹³C]glycerol ingested along with glucose during prolonged exercise. Journal of Applied Physiology, 2001, 90, 1685-1690.	2.5	13
81	Use of an Î±-glucosidase inhibitor to maintain glucose homoeostasis during postprandial exercise in intensively treated Type 1 diabetic subjects. Diabetic Medicine, 2001, 18, 739-744.	2.3	15
82	Oxidation of 13C-Glucose and 13C-Fructose Ingested as a Preexercise Meal: Effect of Carbohydrate Ingestion during Exercise. International Journal of Sport Nutrition, 1997, 7, 117-127.	1.7	8