

# Yan Burelle

## List of Publications by Citations

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75  
papers

7,960  
citations

33  
h-index

83  
g-index

83  
ext. papers

9,356  
ext. citations

5.7  
avg, IF

5.2  
L-index

#	Paper	IF	Citations
75	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , <b>2016</b> , 12, 1-222	10.2	3838
74	Mitochondrial dysfunction and lipid accumulation in the human diaphragm during mechanical ventilation. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2012</b> , 186, 1140-9	10.2	600
73	An official American Thoracic Society/European Respiratory Society statement: update on limb muscle dysfunction in chronic obstructive pulmonary disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2014</b> , 189, e15-62	10.2	577
72	Parkinson's Disease-Related Proteins PINK1 and Parkin Repress Mitochondrial Antigen Presentation. <i>Cell</i> , <b>2016</b> , 166, 314-327	56.2	281
71	The rise of mitochondria in medicine. <i>Mitochondrion</i> , <b>2016</b> , 30, 105-16	4.9	258
70	Mitochondrial morphology transitions and functions: implications for retrograde signaling?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2013</b> , 304, R393-406 <sup>3.2</sup>	3.2	164
69	AMPK activation stimulates autophagy and ameliorates muscular dystrophy in the mdx mouse diaphragm. <i>American Journal of Pathology</i> , <b>2012</b> , 181, 583-92	5.8	151
68	Interdependence of Parkin-Mediated Mitophagy and Mitochondrial Fission in Adult Mouse Hearts. <i>Circulation Research</i> , <b>2015</b> , 117, 346-51	15.7	129
67	Protective role of PARK2/Parkin in sepsis-induced cardiac contractile and mitochondrial dysfunction. <i>Autophagy</i> , <b>2013</b> , 9, 1837-51	10.2	114
66	Mitochondrial functional specialization in glycolytic and oxidative muscle fibers: tailoring the organelle for optimal function. <i>American Journal of Physiology - Cell Physiology</i> , <b>2012</b> , 302, C629-41	5.4	113
65	Mitochondrial contagion induced by Parkin deficiency in Drosophila hearts and its containment by suppressing mitofusin. <i>Circulation Research</i> , <b>2014</b> , 114, 257-65	15.7	96
64	Regular exercise is associated with a protective metabolic phenotype in the rat heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2004</b> , 287, H1055-63	5.2	88
63	Autophagy and skeletal muscles in sepsis. <i>PLoS ONE</i> , <b>2012</b> , 7, e47265	3.7	84
62	A Metabolic Signature of Mitochondrial Dysfunction Revealed through a Monogenic Form of Leigh Syndrome. <i>Cell Reports</i> , <b>2015</b> , 13, 981-9	10.6	80
61	Formation of mitochondrial-derived vesicles is an active and physiologically relevant mitochondrial quality control process in the cardiac system. <i>Journal of Physiology</i> , <b>2016</b> , 594, 5343-62	3.9	76
60	The relationship between muscle fiber type-specific PGC-1 $\alpha$ content and mitochondrial content varies between rodent models and humans. <i>PLoS ONE</i> , <b>2014</b> , 9, e103044	3.7	75
59	The mitochondrial phenotype of peripheral muscle in chronic obstructive pulmonary disease: disuse or dysfunction?. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2008</b> , 178, 1040-7	10.2	66

58	Resistance to Ca <sup>2+</sup> -induced opening of the permeability transition pore differs in mitochondria from glycolytic and oxidative muscles. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2008</b> , 295, R659-68	3.2	62
57	Stress-induced opening of the permeability transition pore in the dystrophin-deficient heart is attenuated by acute treatment with sildenafil. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2011</b> , 300, H144-53	5.2	59
56	Muscle denervation promotes opening of the permeability transition pore and increases the expression of cyclophilin D. <i>Journal of Physiology</i> , <b>2006</b> , 574, 319-27	3.9	59
55	Endurance training induces muscle-specific changes in mitochondrial function in skinned muscle fibers. <i>Journal of Applied Physiology</i> , <b>2002</b> , 92, 2429-38	3.7	57
54	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. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2009</b> , 46, 420-30	5.8	53
53	Exercise training induces respiratory substrate-specific decrease in Ca <sup>2+</sup> -induced permeability transition pore opening in heart mitochondria. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2006</b> , 290, H1549-57	5.2	53
52	Mechanical ventilation triggers abnormal mitochondrial dynamics and morphology in the diaphragm. <i>Journal of Applied Physiology</i> , <b>2015</b> , 118, 1161-71	3.7	52
51	Peroxisome proliferator-activated receptor $\alpha$ coactivator1- gene $\alpha$ transfer restores mitochondrial biomass and improves mitochondrial calcium handling in post-necrotic mdx mouse skeletal muscle. <i>Journal of Physiology</i> , <b>2012</b> , 590, 5487-502	3.9	51
50	Lower oxidative DNA damage despite greater ROS production in muscles from rats selectively bred for high running capacity. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2011</b> , 300, R544-53	3.2	51
49	A Mitochondrial Health Index Sensitive to Mood and Caregiving Stress. <i>Biological Psychiatry</i> , <b>2018</b> , 84, 9-17	7.9	50
48	Autophagic flux and oxidative capacity of skeletal muscles during acute starvation. <i>Autophagy</i> , <b>2013</b> , 9, 1604-20	10.2	43
47	Protective role of Parkin in skeletal muscle contractile and mitochondrial function. <i>Journal of Physiology</i> , <b>2018</b> , 596, 2565-2579	3.9	41
46	Compensated volume overload increases the vulnerability of heart mitochondria without affecting their functions in the absence of stress. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2006</b> , 41, 998-1009	5.8	41
45	Alterations in mitochondrial function as a harbinger of cardiomyopathy: lessons from the dystrophic heart. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2010</b> , 48, 310-21	5.8	39
44	Comparison of exogenous glucose, fructose and galactose oxidation during exercise using <sup>13</sup> C-labelling. <i>British Journal of Nutrition</i> , <b>2006</b> , 96, 56-61	3.6	37
43	Different timing of changes in mitochondrial functions following endurance training. <i>Medicine and Science in Sports and Exercise</i> , <b>2012</b> , 44, 217-24	1.2	33
42	Tissue-specific responses to the LRPPRC founder mutation in French Canadian Leigh Syndrome. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 480-91	5.6	32
41	Loss of hepatic LRPPRC alters mitochondrial bioenergetics, regulation of permeability transition and trans-membrane ROS diffusion. <i>Human Molecular Genetics</i> , <b>2017</b> , 26, 3186-3201	5.6	27

40	Mitochondrial Oxidative Stress Reduces the Immunopotency of Mesenchymal Stromal Cells in Adults With Coronary Artery Disease. <i>Circulation Research</i> , <b>2018</b> , 122, 255-266	15.7	27
39	Effect of eccentric versus concentric exercise training on mitochondrial function. <i>Muscle and Nerve</i> , <b>2014</b> , 50, 803-11	3.4	20
38	Mitochondrial vulnerability and increased susceptibility to nutrient-induced cytotoxicity in fibroblasts from leigh syndrome French canadian patients. <i>PLoS ONE</i> , <b>2015</b> , 10, e0120767	3.7	19
37	Role of peroxisome proliferator-activated receptor gamma coactivator 1-alpha (PGC-1) in denervation-induced atrophy in aged muscle: facts and hypotheses. <i>Longevity &amp; Healthspan</i> , <b>2013</b> , 2, 13		18
36	Early predictors of cardiac decompensation in experimental volume overload. <i>Molecular and Cellular Biochemistry</i> , <b>2010</b> , 338, 271-82	4.2	18
35	Regulation of ULK1 Expression and Autophagy by STAT1. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 18993-19001	3.1	15
34	Mitochondria: starving to reach quorum?: Insight into the physiological purpose of mitochondrial fusion. <i>BioEssays</i> , <b>2012</b> , 34, 272-4	4.1	14
33	Short term training attenuates opening of the mitochondrial permeability transition pore without affecting myocardial function following ischemia-reperfusion. <i>Molecular and Cellular Biochemistry</i> , <b>2006</b> , 291, 39-47	4.2	14
32	Mitochondrial Psychobiology: Foundations and Applications. <i>Current Opinion in Behavioral Sciences</i> , <b>2019</b> , 28, 142-151	4	13
31	Disparate regulation of signaling proteins after exercise and myocardial infarction. <i>Medicine and Science in Sports and Exercise</i> , <b>2006</b> , 38, 455-62	1.2	13
30	MCL-1 maintains neuronal survival by enhancing mitochondrial integrity and bioenergetic capacity under stress conditions. <i>Cell Death and Disease</i> , <b>2020</b> , 11, 321	9.8	11
29	Lipidomics unveils lipid dyshomeostasis and low circulating plasmalogens as biomarkers in a monogenic mitochondrial disorder. <i>JCI Insight</i> , <b>2019</b> , 4,	9.9	11
28	Control of maximum metabolic rate in humans: dependence on performance phenotypes. <i>Molecular and Cellular Biochemistry</i> , <b>2004</b> , 256-257, 95-103	4.2	10
27	Use of an alpha-glucosidase inhibitor to maintain glucose homeostasis during postprandial exercise in intensively treated Type 1 diabetic subjects. <i>Diabetic Medicine</i> , <b>2001</b> , 18, 739-44	3.5	10
26	Oxidation of [(13)C]glycerol ingested along with glucose during prolonged exercise. <i>Journal of Applied Physiology</i> , <b>2001</b> , 90, 1685-90	3.7	10
25	Mitochondrial quality control in the cardiac system: An integrative view. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2019</b> , 1865, 782-796	6.9	10
24	Adiponectin has a pivotal role in the cardioprotective effect of CP-3(iv), a selective CD36 azapeptide ligand, after transient coronary artery occlusion in mice. <i>FASEB Journal</i> , <b>2018</b> , 32, 807-818	0.9	9
23	Differential metabolic fate of the carbon skeleton and amino-N of [13C]alanine and [15N]alanine ingested during prolonged exercise. <i>Journal of Applied Physiology</i> , <b>2002</b> , 93, 499-504	3.7	9

22	Circulating lipids are lowered but pancreatic islet lipid metabolism and insulin secretion are unaltered in exercise-trained female rats. <i>Applied Physiology, Nutrition and Metabolism</i> , <b>2007</b> , 32, 241-8	3	8
21	Proteomics characterization of mitochondrial-derived vesicles under oxidative stress. <i>FASEB Journal</i> , <b>2021</b> , 35, e21278	0.9	7
20	Oxidation of <sup>13</sup> C-glucose and <sup>13</sup> C-fructose ingested as a preexercise meal: effect of carbohydrate ingestion during exercise. <i>International Journal of Sport Nutrition</i> , <b>1997</b> , 7, 117-27		6
19	Effects of acute exercise on the gluconeogenic capacity of periportal and perivenous hepatocytes. <i>Journal of Applied Physiology</i> , <b>2001</b> , 91, 1099-104	3.7	6
18	Cyclosporine A Treatment Inhibits Abcc6-Dependent Cardiac Necrosis and Calcification following Coxsackievirus B3 Infection in Mice. <i>PLoS ONE</i> , <b>2015</b> , 10, e0138222	3.7	6
17	Mitophagy: A New Player in Stem Cell Biology. <i>Biology</i> , <b>2020</b> , 9,	4.9	6
16	A Linear Fragment of Unacylated Ghrelin (UAG) Protects Against Myocardial Ischemia/Reperfusion Injury in Mice in a Growth Hormone Secretagogue Receptor-Independent Manner. <i>Frontiers in Endocrinology</i> , <b>2018</b> , 9, 798	5.7	6
15	Oxidative stress-induced senescence mediates inflammatory and fibrotic phenotypes in fibroblasts from systemic sclerosis patients. <i>Rheumatology</i> , <b>2021</b> ,	3.9	5
14	Nutritional Regulation of Mitochondrial Function <b>2019</b> , 93-126		4
13	Cyclophilin-D is dispensable for atrophy and mitochondrial apoptotic signalling in denervated muscle. <i>Journal of Physiology</i> , <b>2011</b> , 589, 855-61	3.9	4
12	Hybrid Clear/Blue Native Electrophoresis for the Separation and Analysis of Mitochondrial Respiratory Chain Supercomplexes. <i>Journal of Visualized Experiments</i> , <b>2019</b> ,	1.6	3
11	Fiber-specific and whole-muscle LRP130 expression in rested, exercised, and fasted human skeletal muscle. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2020</b> , 472, 375-384	4.6	3
10	Protein O-GlcNAcylation levels are regulated independently of dietary intake in a tissue and time-specific manner during rat postnatal development. <i>Acta Physiologica</i> , <b>2021</b> , 231, e13566	5.6	3
9	Histopathology and Mitochondrial Function in Liver-Specific LRPPRC Knockout Mice. <i>FASEB Journal</i> , <b>2015</b> , 29, 1036.2	0.9	2
8	Effects of (-)-epicatechin on mitochondria. <i>Nutrition Reviews</i> , <b>2021</b> , 79, 25-41	6.4	2
7	Regulates Skeletal Muscle Mitochondrial Structure and Autophagy. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 604210	4.6	2
6	Adaptive optimization of the OXPHOS assembly line partially compensates lrpprc-dependent mitochondrial translation defects in mice. <i>Communications Biology</i> , <b>2021</b> , 4, 989	6.7	2
5	Implication of Cyclophilin D and Permeability Transition Pore in Mitochondrial Vulnerability of Compensated Heart Hypertrophy. <i>FASEB Journal</i> , <b>2008</b> , 22, 1238.17	0.9	1

4	A recurrent de novo ATP5F1A substitution associated with neonatal complex V deficiency. <i>European Journal of Human Genetics</i> , <b>2021</b> , 29, 1719-1724	5.3	1
3	The intra-mitochondrial O-GlcNAcylation system rapidly modulates OXPHOS function and ROS release in the heart.. <i>Communications Biology</i> , <b>2022</b> , 5, 349	6.7	1
2	Cardiac Left Ventricle Mitochondrial Dysfunction After Neonatal Exposure to Hyperoxia: Relevance for Cardiomyopathy After Preterm Birth.. <i>Hypertension</i> , <b>2021</b> , HYPERTENSIONAHA12117979	8.5	
1	Mitochondrial Functional Specialization in Glycolytic and Oxidative Muscle Fibers: Tailoring the Organelle for Optimal Function. <i>FASEB Journal</i> , <b>2012</b> , 26, 887.19	0.9	