

Yan Burelle

List of Publications by Year in descending order

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Version: 2024-02-01

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	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	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> , 2014, 189, e15-e62.	5.6	793
3	Mitochondrial Dysfunction and Lipid Accumulation in the Human Diaphragm during Mechanical Ventilation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012, 186, 1140-1149.	5.6	648
4	Parkinson's Disease-Related Proteins PINK1 and Parkin Repress Mitochondrial Antigen Presentation. <i>Cell</i> , 2016, 166, 314-327.	28.9	429
5	The rise of mitochondria in medicine. <i>Mitochondrion</i> , 2016, 30, 105-116.	3.4	349
6	Mitochondrial morphology transitions and functions: implications for retrograde signaling?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 304, R393-R406.	1.8	242
7	AMPK Activation Stimulates Autophagy and Ameliorates Muscular Dystrophy in the mdx Mouse Diaphragm. <i>American Journal of Pathology</i> , 2012, 181, 583-592.	3.8	194
8	Interdependence of Parkin-Mediated Mitophagy and Mitochondrial Fission in Adult Mouse Hearts. <i>Circulation Research</i> , 2015, 117, 346-351.	4.5	172
9	Mitochondrial functional specialization in glycolytic and oxidative muscle fibers: tailoring the organelle for optimal function. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C629-C641.	4.6	170
10	Protective role of PARK2/Parkin in sepsis-induced cardiac contractile and mitochondrial dysfunction. <i>Autophagy</i> , 2013, 9, 1837-1851.	9.1	133
11	Mitochondrial Contagion Induced by Parkin Deficiency in <i>Drosophila</i> Hearts and Its Containment by Suppressing Mitofusin. <i>Circulation Research</i> , 2014, 114, 257-265.	4.5	129
12	A Metabolic Signature of Mitochondrial Dysfunction Revealed through a Monogenic Form of Leigh Syndrome. <i>Cell Reports</i> , 2015, 13, 981-989.	6.4	113
13	Formation of mitochondrial-derived vesicles is an active and physiologically relevant mitochondrial quality control process in the cardiac system. <i>Journal of Physiology</i> , 2016, 594, 5343-5362.	2.9	113
14	The Relationship between Muscle Fiber Type-Specific PGC-1 α Content and Mitochondrial Content Varies between Rodent Models and Humans. <i>PLoS ONE</i> , 2014, 9, e103044.	2.5	104
15	Regular exercise is associated with a protective metabolic phenotype in the rat heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 287, H1055-H1063.	3.2	103
16	Autophagy and Skeletal Muscles in Sepsis. <i>PLoS ONE</i> , 2012, 7, e47265.	2.5	96
17	The Mitochondrial Phenotype of Peripheral Muscle in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008, 178, 1040-1047.	5.6	87
18	A Mitochondrial Health Index Sensitive to Mood and Caregiving Stress. <i>Biological Psychiatry</i> , 2018, 84, 9-17.	1.3	82

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19	Resistance to Ca ²⁺ -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> , 2008, 295, R659-R668.	1.8	79
20	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> , 2011, 300, H144-H153.	3.2	77
21	Protective role of Parkin in skeletal muscle contractile and mitochondrial function. <i>Journal of Physiology</i> , 2018, 596, 2565-2579.	2.9	72
22	MCL-1 Matrix maintains neuronal survival by enhancing mitochondrial integrity and bioenergetic capacity under stress conditions. <i>Cell Death and Disease</i> , 2020, 11, 321.	6.3	68
23	Peroxisome proliferator-activated receptor β coactivator 1 gene transfer restores mitochondrial biomass and improves mitochondrial calcium handling in post-necrotic mouse skeletal muscle. <i>Journal of Physiology</i> , 2012, 590, 5487-5502.	2.9	66
24	Mechanical ventilation triggers abnormal mitochondrial dynamics and morphology in the diaphragm. <i>Journal of Applied Physiology</i> , 2015, 118, 1161-1171.	2.5	66
25	Muscle denervation promotes opening of the permeability transition pore and increases the expression of cyclophilin D. <i>Journal of Physiology</i> , 2006, 574, 319-327.	2.9	62
26	Endurance training induces muscle-specific changes in mitochondrial function in skinned muscle fibers. <i>Journal of Applied Physiology</i> , 2002, 92, 2429-2438.	2.5	61
27	Exercise training induces respiratory substrate-specific decrease in Ca ²⁺ -induced permeability transition pore opening in heart mitochondria. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 290, H1549-H1557.	3.2	60
28	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> , 2011, 300, R544-R553.	1.8	60
29	Autophagic flux and oxidative capacity of skeletal muscles during acute starvation. <i>Autophagy</i> , 2013, 9, 1604-1620.	9.1	59
30	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> , 2009, 46, 420-430.	1.9	56
31	Mitochondrial Oxidative Stress Reduces the Immunopotency of Mesenchymal Stromal Cells in Adults With Coronary Artery Disease. <i>Circulation Research</i> , 2018, 122, 255-266.	4.5	46
32	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> , 2006, 41, 998-1009.	1.9	45
33	Alterations in mitochondrial function as a harbinger of cardiomyopathy: Lessons from the dystrophic heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 310-321.	1.9	43
34	Comparison of exogenous glucose, fructose and galactose oxidation during exercise using C-labelling. <i>British Journal of Nutrition</i> , 2006, 96, 56.	2.3	42
35	Tissue-specific responses to the LRPPRC founder mutation in French Canadian Leigh Syndrome. <i>Human Molecular Genetics</i> , 2015, 24, 480-491.	2.9	41
36	Different Timing of Changes in Mitochondrial Functions following Endurance Training. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 217-224.	0.4	39

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37	Loss of hepatic LRPPRC alters mitochondrial bioenergetics, regulation of permeability transition and trans-membrane ROS diffusion. <i>Human Molecular Genetics</i> , 2017, 26, 3186-3201.	2.9	36
38	Proteomics characterization of mitochondrial-derived vesicles under oxidative stress. <i>FASEB Journal</i> , 2021, 35, e21278.	0.5	36
39	Mitochondrial Vulnerability and Increased Susceptibility to Nutrient-Induced Cytotoxicity in Fibroblasts from Leigh Syndrome French Canadian Patients. <i>PLoS ONE</i> , 2015, 10, e0120767.	2.5	29
40	Mitochondrial psychobiology: foundations and applications. <i>Current Opinion in Behavioral Sciences</i> , 2019, 28, 142-151.	3.9	28
41	Effect of eccentric versus concentric exercise training on mitochondrial function. <i>Muscle and Nerve</i> , 2014, 50, 803-811.	2.2	26
42	Lipidomics unveils lipid dyshomeostasis and low circulating plasmalogens as biomarkers in a monogenic mitochondrial disorder. <i>JCI Insight</i> , 2019, 4, .	5.0	26
43	Early predictors of cardiac decompensation in experimental volume overload. <i>Molecular and Cellular Biochemistry</i> , 2010, 338, 271-282.	3.1	25
44	Effects of (âˆ“)â€”epicatechin on mitochondria. <i>Nutrition Reviews</i> , 2021, 79, 25-41.	5.8	25
45	Role of peroxisome proliferator-activated receptor gamma coactivator 1-alpha (PGC-1âˆ“) in denervation-induced atrophy in aged muscle: facts and hypotheses. <i>Longevity & Healthspan</i> , 2013, 2, 13.	6.7	24
46	Regulation of ULK1 Expression and Autophagy by STAT1. <i>Journal of Biological Chemistry</i> , 2017, 292, 1899-1909.	3.4	24
47	Oxidative stress-induced senescence mediates inflammatory and fibrotic phenotypes in fibroblasts from systemic sclerosis patients. <i>Rheumatology</i> , 2022, 61, 1265-1275.	1.9	19
48	Short Term Training Attenuates Opening of the Mitochondrial Permeability Transition Pore Without Affecting Myocardial Function Following Ischemia-Reperfusion. <i>Molecular and Cellular Biochemistry</i> , 2006, 291, 39-47.	3.1	18
49	Mitochondrial quality control in the cardiac system: An integrative view. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 782-796.	3.8	18
50	Mitochondria: Starving to reach quorum?. <i>BioEssays</i> , 2012, 34, 272-274.	2.5	17
51	The intra-mitochondrial O-GlcNAcylation system rapidly modulates OXPHOS function and ROS release in the heart. <i>Communications Biology</i> , 2022, 5, 349.	4.4	17
52	Adiponectin has a pivotal role in the cardioprotective effect of CPâ€”(iv), a selective CD36 azapeptide ligand, after transient coronary artery occlusion in mice. <i>FASEB Journal</i> , 2018, 32, 807-818.	0.5	16
53	Use of an âˆ“â€”glucosidase inhibitor to maintain glucose homeostasis during postprandial exercise in intensively treated Type 1 diabetic subjects. <i>Diabetic Medicine</i> , 2001, 18, 739-744.	2.3	15
54	Mitophagy: A New Player in Stem Cell Biology. <i>Biology</i> , 2020, 9, 481.	2.8	15

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55	Oxidation of [¹³ C]glycerol ingested along with glucose during prolonged exercise. <i>Journal of Applied Physiology</i> , 2001, 90, 1685-1690.	2.5	13
56	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> , 2002, 93, 499-504.	2.5	13
57	Control of maximum metabolic rate in humans: Dependence on performance phenotypes. <i>Molecular and Cellular Biochemistry</i> , 2004, 256, 95-103.	3.1	13
58	Disparate Regulation of Signaling Proteins after Exercise and Myocardial Infarction. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, 455-462.	0.4	13
59	Protein O ⁶ -methylguanine levels are regulated independently of dietary intake in a tissue and time-specific manner during rat postnatal development. <i>Acta Physiologica</i> , 2021, 231, e13566.	3.8	11
60	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> , 2007, 32, 241-248.	1.9	10
61	Cyclosporine A Treatment Inhibits Abcc6-Dependent Cardiac Necrosis and Calcification following Coxsackievirus B3 Infection in Mice. <i>PLoS ONE</i> , 2015, 10, e0138222.	2.5	10
62	A Linear Fragment of Unacylated Ghrelin (UAG6 [~] 13) Protects Against Myocardial Ischemia/Reperfusion Injury in Mice in a Growth Hormone Secretagogue Receptor-Independent Manner. <i>Frontiers in Endocrinology</i> , 2018, 9, 798.	3.5	9
63	Oxidation of 13C-Glucose and 13C-Fructose Ingested as a Preexercise Meal: Effect of Carbohydrate Ingestion during Exercise. <i>International Journal of Sport Nutrition</i> , 1997, 7, 117-127.	1.7	8
64	Grx2 Regulates Skeletal Muscle Mitochondrial Structure and Autophagy. <i>Frontiers in Physiology</i> , 2021, 12, 604210.	2.8	7
65	Effects of acute exercise on the gluconeogenic capacity of periportal and perivenous hepatocytes. <i>Journal of Applied Physiology</i> , 2001, 91, 1099-1104.	2.5	6
66	Cyclophilin ^Δ is dispensable for atrophy and mitochondrial apoptotic signalling in denervated muscle. <i>Journal of Physiology</i> , 2011, 589, 855-861.	2.9	5
67	Nutritional Regulation of Mitochondrial Function. , 2019, , 93-126.		5
68	Dietary Cocoa Flavanols Enhance Mitochondrial Function in Skeletal Muscle and Modify Whole-Body Metabolism in Healthy Mice. <i>Nutrients</i> , 2021, 13, 3466.	4.1	5
69	Fiber-specific and whole-muscle LRP130 expression in rested, exercised, and fasted human skeletal muscle. <i>Pflugers Archiv European Journal of Physiology</i> , 2020, 472, 375-384.	2.8	4
70	Adaptive optimization of the OXPHOS assembly line partially compensates lrpprc-dependent mitochondrial translation defects in mice. <i>Communications Biology</i> , 2021, 4, 989.	4.4	4
71	Cardiac Left Ventricle Mitochondrial Dysfunction After Neonatal Exposure to Hyperoxia: Relevance for Cardiomyopathy After Preterm Birth. <i>Hypertension</i> , 2022, 79, 575-587.	2.7	4
72	Hybrid Clear/Blue Native Electrophoresis for the Separation and Analysis of Mitochondrial Respiratory Chain Supercomplexes. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	3

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73	A recurrent de novo ATP5F1A substitution associated with neonatal complex V deficiency. European Journal of Human Genetics, 2021, 29, 1719-1724.	2.8	2
74	Histopathology and Mitochondrial Function in Liver-specific LRPPRC Knockout Mice. FASEB Journal, 2015, 29, 1036.2.	0.5	2
75	61. Developing Sensitive Measurements of Mitochondrial Responses to Acute and Chronic Stress. Biological Psychiatry, 2018, 83, S25.	1.3	1
76	Implication of Cyclophilin D and Permeability Transition Pore in Mitochondrial Vulnerability of Compensated Heart Hypertrophy. FASEB Journal, 2008, 22, 1238.17.	0.5	1
77	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
78	Mitochondrial Metabolic Uncoupling in Maladaptive Right Ventricular Remodeling in Response to Pressure Overload in Fischer Rats. , 2020, , .		0
79	Strain-Dependence in Susceptibility to Heart Failure: Role of Mitochondria. FASEB Journal, 2008, 22, .	0.5	0
80	Mitochondrial Functional Specialization in Glycolytic and Oxidative Muscle Fibers: Tailoring the Organelle for Optimal Function. FASEB Journal, 2012, 26, 887.19.	0.5	0
81	Abstract 13917: <i>O</i> -GlcNAc Levels Are Regulated in a Time and Tissue Specific Manner Independently of Dietary Intake. Circulation, 2020, 142, .	1.6	0
82	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