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List of Publications by Year
in descending order

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238 papers	20,190 citations	7551 77 h-index	12233 133 g-index
238 all docs	238 docs citations	238 times ranked	24216 citing authors

#	Article	IF	Citations
1	Mitochondrial Overload and Incomplete Fatty Acid Oxidation Contribute to Skeletal Muscle Insulin Resistance. Cell Metabolism, 2008, 7, 45-56.	7.2	1,618
2	Single phosphorylation sites in Acc1 and Acc2 regulate lipid homeostasis and the insulin-sensitizing effects of metformin. Nature Medicine, 2013, 19, 1649-1654.	15.2	674
3	Phosphodiesterase Type 5 Is Highly Expressed in the Hypertrophied Human Right Ventricle, and Acute Inhibition of Phosphodiesterase Type 5 Improves Contractility. Circulation, 2007, 116, 238-248.	1.6	486
4	Intracellular Action of Matrix Metalloproteinase-2 Accounts for Acute Myocardial Ischemia and Reperfusion Injury. Circulation, 2002, 106, 1543-1549.	1.6	434
5	Dichloroacetate Prevents and Reverses Pulmonary Hypertension by Inducing Pulmonary Artery Smooth Muscle Cell Apoptosis. Circulation Research, 2004, 95, 830-840.	2.0	416
6	Increased Hepatic CD36 Expression Contributes to Dyslipidemia Associated With Diet-Induced Obesity. Diabetes, 2007, 56, 2863-2871.	0.3	395
7	Liver-Specific Inhibition of ChREBP Improves Hepatic Steatosis and Insulin Resistance in ob/ob Mice. Diabetes, 2006, 55, 2159-2170.	0.3	387
8	Inhibiting peripheral serotonin synthesis reduces obesity and metabolic dysfunction by promoting brown adipose tissue thermogenesis. Nature Medicine, 2015, 21, 166-172.	15.2	376
9	Epigenetic Attenuation of Mitochondrial Superoxide Dismutase 2 in Pulmonary Arterial Hypertension. Circulation, 2010, 121, 2661-2671.	1.6	361
10	Akt Activity Negatively Regulates Phosphorylation of AMP-activated Protein Kinase in the Heart. Journal of Biological Chemistry, 2003, 278, 39422-39427.	1.6	350
11	Dichloroacetate, a Metabolic Modulator, Prevents and Reverses Chronic Hypoxic Pulmonary Hypertension in Rats. Circulation, 2002, 105, 244-250.	1.6	340
12	AMPK alterations in cardiac physiology and pathology: enemy or ally?. Journal of Physiology, 2006, 574, 95-112.	1.3	340
13	A pivotal role for endogenous TGF-beta-activated kinase-1 in the LKB1/AMP-activated protein kinase energy-sensor pathway. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17378-17383.	3.3	321
14	Disruption of the circadian clock within the cardiomyocyte influences myocardial contractile function, metabolism, and gene expression. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H1036-H1047.	1.5	310
15	Activation of AMP-activated Protein Kinase Inhibits Protein Synthesis Associated with Hypertrophy in the Cardiac Myocyte. Journal of Biological Chemistry, 2004, 279, 32771-32779.	1.6	294
16	The Emerging Role of Metabolomics inÂtheÂDiagnosis and Prognosis of Cardiovascular Disease. Journal of the American College of Cardiology, 2016, 68, 2850-2870.	1.2	259
17	In Vivo Gene Transfer of the O 2 -Sensitive Potassium Channel Kv1.5 Reduces Pulmonary Hypertension and Restores Hypoxic Pulmonary Vasoconstriction in Chronically Hypoxic Rats. Circulation, 2003, 107, 2037-2044.	1.6	252
18	Preclinical and clinical evidence for the role of resveratrol in the treatment of cardiovascular diseases. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 1155-1177.	1.8	252

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19	A Role for Peroxisome Proliferator-activated Receptor Î± (PPARÎ±) in the Control of Cardiac Malonyl-CoA Levels. Journal of Biological Chemistry, 2002, 277, 4098-4103.	1.6	224
20	Resveratrol Inhibits Cardiac Hypertrophy via AMP-activated Protein Kinase and Akt. Journal of Biological Chemistry, 2008, 283, 24194-24201.	1.6	216
21	Short Communication: Ischemia/Reperfusion Tolerance Is Time-of-Dayâ€“Dependent. Circulation Research, 2010, 106, 546-550.	2.0	215
22	Resveratrol Prevents the Prohypertrophic Effects of Oxidative Stress on LKB1. Circulation, 2009, 119, 1643-1652.	1.6	210
23	Fatty Acid Oxidation and Malonyl-CoA Decarboxylase in the Vascular Remodeling of Pulmonary Hypertension. Science Translational Medicine, 2010, 2, 44ra58.	5.8	193
24	Malonyl Coenzyme A Decarboxylase Inhibition Protects the Ischemic Heart by Inhibiting Fatty Acid Oxidation and Stimulating Glucose Oxidation. Circulation Research, 2004, 94, e78-84.	2.0	191
25	Improved Glucose Homeostasis in Obese Mice Treated With Resveratrol Is Associated With Alterations in the Gut Microbiome. Diabetes, 2017, 66, 418-425.	0.3	189
26	Beneficial Effects of Trimetazidine in Ex Vivo Working Ischemic Hearts Are Due to a Stimulation of Glucose Oxidation Secondary to Inhibition of Long-Chain 3-Ketoacyl Coenzyme A Thiolase. Circulation Research, 2003, 93, e33-7.	2.0	173
27	Regulation of 5â€²-AMP-activated Protein Kinase Activity by the Noncatalytic Î² and Î³ Subunits. Journal of Biological Chemistry, 1996, 271, 17798-17803.	1.6	171
28	Resveratrol as a calorie restriction mimetic: therapeutic implications. Trends in Cell Biology, 2012, 22, 546-554.	3.6	169
29	Impaired de Novo Choline Synthesis Explains Why Phosphatidylethanolamine N-Methyltransferase-deficient Mice Are Protected from Diet-induced Obesity. Journal of Biological Chemistry, 2010, 285, 22403-22413.	1.6	168
30	Resveratrol prevents hypertension and cardiac hypertrophy in hypertensive rats and mice. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 1723-1733.	1.8	167
31	O2Sensing in the Human Ductus Arteriosus. Circulation Research, 2002, 91, 478-486.	2.0	154
32	Stimulation of glucose oxidation protects against acute myocardial infarction and reperfusion injury. Cardiovascular Research, 2012, 94, 359-369.	1.8	154
33	Empagliflozin Blunts Worsening Cardiac Dysfunction Associated With Reduced NLRP3 (Nucleotide-Binding Domain-Like Receptor Protein 3) Inflammasome Activation in Heart Failure. Circulation: Heart Failure, 2020, 13, e006277.	1.6	153
34	Loss of TGH/Ces3 in Mice Decreases Blood Lipids, Improves Glucose Tolerance, and Increases Energy Expenditure. Cell Metabolism, 2010, 11, 183-193.	7.2	152
35	Cardiac-specific Deletion of LKB1 Leads to Hypertrophy and Dysfunction. Journal of Biological Chemistry, 2009, 284, 35839-35849.	1.6	151
36	Metabolomic Fingerprint of Heart Failure with Preserved Ejection Fraction. PLoS ONE, 2015, 10, e0124844.	1.1	150

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37	Phosphorylation control of cardiac acetyl-CoA carboxylase by cAMP-dependent protein kinase and 5'-AMP activated protein kinase. FEBS Journal, 1999, 262, 184-190.	0.2	144
38	Improvements in skeletal muscle strength and cardiac function induced by resveratrol during exercise training contribute to enhanced exercise performance in rats. Journal of Physiology, 2012, 590, 2783-2799.	1.3	138
39	Calorie restriction and resveratrol in cardiovascular health and disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 1477-1489.	1.8	137
40	Posttranslational Modifications of the 5â€²-AMP-activated Protein Kinase Î²1 Subunit. Journal of Biological Chemistry, 1997, 272, 24475-24479.	1.6	135
41	Hyperpolarized ¹³C magnetic resonance reveals earlyâ€•and lateâ€•onset changes to in vivo pyruvate metabolism in the failing heart. European Journal of Heart Failure, 2013, 15, 130-140.	2.9	133
42	Absence of Malonyl Coenzyme A Decarboxylase in Mice Increases Cardiac Glucose Oxidation and Protects the Heart From Ischemic Injury. Circulation, 2006, 114, 1721-1728.	1.6	131
43	Empagliflozin Prevents Worsening of Cardiac Function in an Experimental Model of Pressure Overload-Induced Heart Failure. JACC Basic To Translational Science, 2017, 2, 347-354.	1.9	123
44	Fatty Acid Translocase/CD36 Deficiency Does Not Energetically or Functionally Compromise Hearts Before or After Ischemia. Circulation, 2004, 109, 1550-1557.	1.6	122
45	Non-catalytic - and -Subunit Isoforms of the 5â€²-AMP-activated Protein Kinase. Journal of Biological Chemistry, 1996, 271, 8675-8681.	1.6	120
46	O-GlcNAcylation, Novel Post-Translational Modification Linking Myocardial Metabolism and Cardiomyocyte Circadian Clock. Journal of Biological Chemistry, 2011, 286, 44606-44619.	1.6	117
47	Insulin-Stimulated Cardiac Glucose Oxidation Is Increased in High-Fat Dietâ€“Induced Obese Mice Lacking Malonyl CoA Decarboxylase. Diabetes, 2009, 58, 1766-1775.	0.3	116
48	The Effects of Resveratrol in Patients with Cardiovascular Disease and Heart Failure: A Narrative Review. International Journal of Molecular Sciences, 2019, 20, 904.	1.8	116
49	Role of AMP-activated protein kinase in healthy and diseased hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H2557-H2569.	1.5	115
50	Hypoxia-Induced Intrauterine Growth Restriction Increases the Susceptibility of Rats to High-Fat Dietâ€“Induced Metabolic Syndrome. Diabetes, 2011, 60, 507-516.	0.3	115
51	CD36 Expression Contributes to Age-Induced Cardiomyopathy in Mice. Circulation, 2007, 116, 2139-2147.	1.6	114
52	Increased ketone body oxidation provides additional energy for the failing heart without improving cardiac efficiency. Cardiovascular Research, 2019, 115, 1606-1616.	1.8	114
53	Calorie Restriction Prevents Hypertension and Cardiac Hypertrophy in the Spontaneously Hypertensive Rat. Hypertension, 2010, 56, 412-421.	1.3	109
54	Dehydroepiandrosterone Reverses Systemic Vascular Remodeling Through the Inhibition of the Akt/GSK3-Î²/NFAT Axis. Circulation, 2009, 120, 1231-1240.	1.6	107

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55	Both aerobic exercise and resveratrol supplementation attenuate doxorubicin-induced cardiac injury in mice. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E243-E253.	1.8	105
56	AMPK phosphorylation of ACC2 is required for skeletal muscle fatty acid oxidation and insulin sensitivity in mice. Diabetologia, 2014, 57, 1693-1702.	2.9	105
57	Cardiac Late Sodium Channel Current Is a Molecular Target for the Sodium/Glucose Cotransporter 2 Inhibitor Empagliflozin. Circulation, 2021, 143, 2188-2204.	1.6	105
58	The role of AMPK in cardiomyocyte health and survival. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 2199-2210.	1.8	104
59	Impaired branched chain amino acid oxidation contributes to cardiac insulin resistance in heart failure. Cardiovascular Diabetology, 2019, 18, 86.	2.7	102
60	Oxygen-Sensitive Kv Channel Gene Transfer Confers Oxygen Responsiveness to Preterm Rabbit and Remodeled Human Ductus Arteriosus. Circulation, 2004, 110, 1372-1379.	1.6	101
61	Exercise modulation of the host-tumor interaction in an orthotopic model of murine prostate cancer. Journal of Applied Physiology, 2012, 113, 263-272.	1.2	98
62	Direct Regulation of Myocardial Triglyceride Metabolism by the Cardiomyocyte Circadian Clock. Journal of Biological Chemistry, 2010, 285, 2918-2929.	1.6	96
63	Metabolic and signaling alterations in dystrophin-deficient hearts precede overt cardiomyopathy. Journal of Molecular and Cellular Cardiology, 2007, 43, 119-129.	0.9	95
64	Myocardial ATGL Overexpression Decreases the Reliance on Fatty Acid Oxidation and Protects against Pressure Overload-Induced Cardiac Dysfunction. Molecular and Cellular Biology, 2012, 32, 740-750.	1.1	95
65	Circulating Levels of Tumor Necrosis Factor-Alpha Receptor 2 Are Increased in Heart Failure with Preserved Ejection Fraction Relative to Heart Failure with Reduced Ejection Fraction: Evidence for a Divergence in Pathophysiology. PLoS ONE, 2014, 9, e99495.	1.1	94
66	Increased hepatic CD36 expression with age is associated with enhanced susceptibility to nonalcoholic fatty liver disease. Aging, 2014, 6, 281-295.	1.4	93
67	A dynamic and chamber-specific mitochondrial remodeling in right ventricular hypertrophy can be therapeutically targeted. Journal of Thoracic and Cardiovascular Surgery, 2008, 136, 168-178.e3.	0.4	89
68	Direct Effects of Empagliflozin on Extracellular Matrix Remodelling in Human Cardiac Myofibroblasts: Novel Translational Clues to Explain EMPA-REG OUTCOME Results. Canadian Journal of Cardiology, 2020, 36, 543-553.	0.8	89
69	Fatty Acid Oxidation in the Reperfused Ischemic Heart. American Journal of the Medical Sciences, 1999, 318, 3.	0.4	88
70	Evidence Suggesting that the Cardiomyocyte Circadian Clock Modulates Responsiveness of the Heart to Hypertrophic Stimuli in Mice. Chronobiology International, 2011, 28, 187-203.	0.9	87
71	Activation of cardiac AMP-activated protein kinase by LKB1 expression or chemical hypoxia is blunted by increased Akt activity. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H2472-H2479.	1.5	86
72	Constitutively Active Adenosine Monophosphateâ€“Activated Protein Kinase Regulates Voltage-Gated Sodium Channels in Ventricular Myocytes. Circulation, 2003, 107, 1962-1965.	1.6	85

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73	Iron-overload injury and cardiomyopathy in acquired and genetic models is attenuated by resveratrol therapy. Scientific Reports, 2015, 5, 18132.	1.6	85
74	Distinct transcriptional regulation of long-chain acyl-CoA synthetase isoforms and cytosolic thioesterase 1 in the rodent heart by fatty acids and insulin. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H2480-H2497.	1.5	83
75	Shedding light on the enigma of myocardial lipotoxicity: the involvement of known and putative regulators of fatty acid storage and mobilization. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E897-E908.	1.8	83
76	Malonyl CoA Control of Fatty Acid Oxidation in the Ischemic Heart. Journal of Molecular and Cellular Cardiology, 2002, 34, 1099-1109.	0.9	81
77	Resveratrol Treatment of Mice With Pressure-Overloadâ€“Induced Heart Failure Improves Diastolic Function and Cardiac Energy Metabolism. Circulation: Heart Failure, 2015, 8, 128-137.	1.6	79
78	Myocardial Adipose Triglyceride Lipase Overexpression Protects Diabetic Mice From the Development of Lipotoxic Cardiomyopathy. Diabetes, 2013, 62, 1464-1477.	0.3	78
79	The anti-proliferative effect of metformin in triple-negative MDA-MB-231 breast cancer cells is highly dependent on glucose concentration: Implications for cancer therapy and prevention. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 1943-1957.	1.1	77
80	Characterization of cardiac malonyl-CoA decarboxylase and its putative role in regulating fatty acid oxidation. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 275, H2122-H2129.	1.5	75
81	Identification of Genes Regulated During Mechanical Load-induced Cardiac Hypertrophy. Journal of Molecular and Cellular Cardiology, 2000, 32, 805-815.	0.9	75
82	Metabolic actions of metformin in the heart can occur by AMPK-independent mechanisms. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H2497-H2506.	1.5	75
83	Is AMPK the savior of the failing heart?. Trends in Endocrinology and Metabolism, 2015, 26, 40-48.	3.1	73
84	Uncoupling of glycolysis from glucose oxidation accompanies the development of heart failure with preserved ejection fraction. Molecular Medicine, 2018, 24, 3.	1.9	72
85	Malonyl-CoA decarboxylase inhibition suppresses fatty acid oxidation and reduces lactate production during demand-induced ischemia. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H2304-H2309.	1.5	71
86	Resveratrol improves exercise performance and skeletal muscle oxidative capacity in heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H842-H853.	1.5	70
87	Continued Postnatal Administration of Resveratrol Prevents Diet-Induced Metabolic Syndrome in Rat Offspring Born Growth Restricted. Diabetes, 2011, 60, 2274-2284.	0.3	67
88	AMPK deficiency in cardiac muscle results in dilated cardiomyopathy in the absence of changes in energy metabolism. Cardiovascular Research, 2015, 107, 235-245.	1.8	67
89	LKB1 Regulates Lipid Oxidation During Exercise Independently of AMPK. Diabetes, 2013, 62, 1490-1499.	0.3	66
90	Fecal transplant from resveratrol-fed donors improves glycaemia and cardiovascular features of the metabolic syndrome in mice. American Journal of Physiology - Endocrinology and Metabolism, 2018, 315, E511-E519.	1.8	65

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91	Activation of AMP-activated protein kinase (AMPK) inhibits protein synthesis: a potential strategy to prevent the development of cardiac hypertrophy. Canadian Journal of Physiology and Pharmacology, 2005, 83, 24-28.	0.7	63
92	Cardiomyocyte-specific ablation of CD36 improves post-ischemic functional recovery. Journal of Molecular and Cellular Cardiology, 2013, 63, 180-188.	0.9	63
93	Alterations in Skeletal Muscle Fatty Acid Handling Predisposes Middle-Aged Mice to Diet-Induced Insulin Resistance. Diabetes, 2010, 59, 1366-1375.	0.3	60
94	Characterization of rat liver malonyl-CoA decarboxylase and the study of its role in regulating fatty acid metabolism. Biochemical Journal, 2000, 350, 599-608.	1.7	59
95	Myocardial triacylglycerol metabolism. Journal of Molecular and Cellular Cardiology, 2013, 55, 101-110.	0.9	59
96	The role of CD36 in the regulation of myocardial lipid metabolism. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 1450-1460.	1.2	58
97	Chronically Elevating Circulating Ketones Can Reduce Cardiac Inflammation and Blunt the Development of Heart Failure. Circulation: Heart Failure, 2020, 13, e006573.	1.6	58
98	Systemic and renal oxidative stress in the pathogenesis of hypertension: modulation of long-term control of arterial blood pressure by resveratrol. Frontiers in Physiology, 2014, 5, 292.	1.3	56
99	Increased CD36 expression in middle-aged mice contributes to obesity-related cardiac hypertrophy in the absence of cardiac dysfunction. Journal of Molecular Medicine, 2011, 89, 459-469.	1.7	55
100	Hypoxic Regulation of Hand1 Controls the Fetal-Neonatal Switch in Cardiac Metabolism. PLoS Biology, 2013, 11, e1001666.	2.6	53
101	Perinatal Resveratrol Supplementation to Spontaneously Hypertensive Rat Dams Mitigates the Development of Hypertension in Adult Offspring. Hypertension, 2016, 67, 1038-1044.	1.3	53
102	Metabolic effects of insulin on cardiomyocytes from control and diabetic db/db mouse hearts. American Journal of Physiology - Endocrinology and Metabolism, 2005, 288, E900-E906.	1.8	52
103	Early structural and metabolic cardiac remodelling in response to inducible adipose triglyceride lipase ablation. Cardiovascular Research, 2013, 99, 442-451.	1.8	52
104	Metabolic effects of glutamine on the heart: Anaplerosis versus the hexosamine biosynthetic pathway. Journal of Molecular and Cellular Cardiology, 2013, 55, 92-100.	0.9	52
105	Myocardial Metabolism in Diabetic Cardiomyopathy: Potential Therapeutic Targets. Antioxidants and Redox Signaling, 2015, 22, 1606-1630.	2.5	52
106	Cardiac mechanisms of the beneficial effects of SGLT2 inhibitors in heart failure: Evidence for potential off-target effects. Journal of Molecular and Cellular Cardiology, 2022, 167, 17-31.	0.9	52
107	Fatty Acid Oxidation in the Reperfused Ischemic Heart. American Journal of the Medical Sciences, 1999, 318, 3-14.	0.4	51
108	Inhibition of Hepatic Phosphatidylcholine Synthesis by 5-Aminoimidazole-4-carboxamide-1-Î²-4-ribofuranoside Is Independent of AMP-activated Protein Kinase Activation. Journal of Biological Chemistry, 2007, 282, 4516-4523.	1.6	51

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109	Circadian rhythms in myocardial metabolism and contractile function: influence of workload and oleate. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H2385-H2393.	1.5	51
110	Inhibition of the Unfolded Protein Response Mechanism Prevents Cardiac Fibrosis. PLoS ONE, 2016, 11, e0159682.	1.1	50
111	Malonyl-CoA decarboxylase (MCD) is differentially regulated in subcellular compartments by 5â€²AMP-activated protein kinase (AMPK). FEBS Journal, 2004, 271, 2831-2840.	0.2	49
112	Activation of the Na+/H+ Exchanger Gene by the Transcription Factor AP-2. Journal of Biological Chemistry, 1995, 270, 1375-1381.	1.6	47
113	Activation of Akt Protects Alveoli from Neonatal Oxygen-Induced Lung Injury. American Journal of Respiratory Cell and Molecular Biology, 2011, 44, 146-154.	1.4	47
114	Impaired Phosphatidylcholine Biosynthesis Reduces Atherosclerosis and Prevents Lipotoxic Cardiac Dysfunction in ApoE ^{â^'/â^'} Mice. Circulation Research, 2011, 108, 686-694.	2.0	47
115	Metabolic regulation of sodiumâ€“calcium exchange by intracellular acyl CoAs. EMBO Journal, 2006, 25, 4605-4614.	3.5	46
116	Post-translational modifications, a key process in CD36 function: Lessons from the spontaneously hypertensive rat heart. Journal of Molecular and Cellular Cardiology, 2011, 51, 99-108.	0.9	46
117	Therapeutic potential of resveratrol in heart failure. Annals of the New York Academy of Sciences, 2015, 1348, 32-45.	1.8	46
118	External Validation of the H ₂ F-PEF Model in Diagnosing Patients With Heart Failure and Preserved Ejection Fraction. Circulation, 2019, 139, 2377-2379.	1.6	44
119	Resveratrol inhibits neointimal formation after arterial injury through an endothelial nitric oxide synthase-dependent mechanism. Atherosclerosis, 2012, 222, 375-381.	0.4	43
120	AMPK-Dependent Inhibitory Phosphorylation of ACC Is Not Essential for Maintaining Myocardial Fatty Acid Oxidation. Circulation Research, 2014, 115, 518-524.	2.0	43
121	Empagliflozin suppresses inflammation and protects against acute septic renal injury. Inflammopharmacology, 2021, 29, 269-279.	1.9	43
122	Discovery of Potent and Orally Available Malonyl-CoA Decarboxylase Inhibitors as Cardioprotective Agents. Journal of Medicinal Chemistry, 2006, 49, 4055-4058.	2.9	42
123	Inhibition of p38 MAPK and AMPK restores adenosine-induced cardioprotection in hearts stressed by antecedent ischemia by altering glucose utilization. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H1107-H1114.	1.5	41
124	Co-administration of resveratrol with doxorubicin in young mice attenuates detrimental late-occurring cardiovascular changes. Cardiovascular Research, 2018, 114, 1350-1359.	1.8	41
125	Negative pressure ventilation decreases inflammation and lung edema during normothermic ex-vivo lung perfusion. Journal of Heart and Lung Transplantation, 2018, 37, 520-530.	0.3	41
126	Phosphorylation of cardiac protein kinase B is regulated by palmitate. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H1056-H1064.	1.5	40

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127	Resveratrol prevents pathological but not physiological cardiac hypertrophy. Journal of Molecular Medicine, 2015, 93, 413-425.	1.7	40
128	The molecular mechanisms that underpin the biological benefits of full-spectrum cannabis extract in the treatment of neuropathic pain and inflammation. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165771.	1.8	40
129	Control of cardiac pyruvate dehydrogenase activity in peroxisome proliferator-activated receptor-Î± transgenic mice. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H270-H276.	1.5	39
130	Malonyl-CoA decarboxylase is a major regulator of myocardial fatty acid oxidation. Current Hypertension Reports, 2005, 7, 407-411.	1.5	39
131	5â€²â€AMP activated protein kinase Î±₂ controls substrate metabolism during postâ€exercise recovery via regulation of pyruvate dehydrogenase kinaseÂ4. Journal of Physiology, 2015, 593, 4765-4780.	1.3	39
132	Cardiomyocyte-specific ablation of CD36 accelerates the progression from compensated cardiac hypertrophy to heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H552-H560.	1.5	39
133	Synergistic effects of prenatal hypoxia and postnatal high-fat diet in the development of cardiovascular pathology in young rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2012, 303, R418-R426.	0.9	38
134	Carbonic anhydrase II promotes cardiomyocyte hypertrophy. Canadian Journal of Physiology and Pharmacology, 2012, 90, 1599-1610.	0.7	38
135	Resveratrol mediates therapeutic hepatic effects in acquired and genetic murine models of ironâ€overload. Liver International, 2016, 36, 246-257.	1.9	38
136	Specific Activation of the Na+/H+ Exchanger Gene during Neuronal Differentiation of Embryonal Carcinoma Cells. Journal of Biological Chemistry, 1995, 270, 10420-10427.	1.6	37
137	Expression of an active LKB1 complex in cardiac myocytes results in decreased protein synthesis associated with phenylephrine-induced hypertrophy. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H1460-H1469.	1.5	37
138	Malonyl CoA Decarboxylase Inhibition Improves Cardiac Function Post-Myocardial Infarction. JACC Basic To Translational Science, 2019, 4, 385-400.	1.9	37
139	Pimozide Alleviates Hyperglycemia in Diet-Induced Obesity by Inhibiting Skeletal Muscle Ketone Oxidation. Cell Metabolism, 2020, 31, 909-919.e8.	7.2	37
140	AMPK signalling and the control of substrate use in the heart. Molecular and Cellular Endocrinology, 2013, 366, 180-193.	1.6	36
141	Regulation of Malonyl-CoA Concentration and Turnover in the Normal Heart. Journal of Biological Chemistry, 2004, 279, 34298-34301.	1.6	35
142	Regulation of cardiac malonyl-CoA content and fatty acid oxidation during increased cardiac power. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H1033-H1037.	1.5	35
143	Inhibition of Â-Cell Sodium-Calcium Exchange Enhances Glucose-Dependent Elevations in Cytoplasmic Calcium and Insulin Secretion. Diabetes, 2010, 59, 1686-1693.	0.3	35
144	Normalization of cardiac substrate utilization and left ventricular hypertrophy precede functional recovery in heart failure regression. Cardiovascular Research, 2016, 110, 249-257.	1.8	35

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145	Human Pharmacokinetic Parameters of Orally Administered Î”⁹-Tetrahydrocannabinol Capsules Are Altered by Fed Versus Fasted Conditions and Sex Differences. Cannabis and Cannabinoid Research, 2019, 4, 255-264.	1.5	35
146	Cloning and expression of rat pancreatic Î²-cell malonyl-CoA decarboxylase. Biochemical Journal, 1999, 340, 213-217.	1.7	33
147	Relationship of glucose and oleate metabolism to cardiac function in lipin-1 deficient (fld) mice. Journal of Lipid Research, 2012, 53, 105-118.	2.0	33
148	Resveratrol improves cardiac function and exercise performance in MI-induced heart failure through the inhibition of cardiotoxic HETE metabolites. Journal of Molecular and Cellular Cardiology, 2018, 125, 162-173.	0.9	33
149	p38 mitogen-activated protein kinase mediates adenosine-induced alterations in myocardial glucose utilization via 5â€²-AMP-activated protein kinase. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H1978-H1985.	1.5	32
150	Synthesis and Structureâ^'Activity Relationship of Small-Molecule Malonyl Coenzyme A Decarboxylase Inhibitors. Journal of Medicinal Chemistry, 2006, 49, 1517-1525.	2.9	31
151	Distinct Early Signaling Events Resulting From the Expression of the PRKAG2 R302Q Mutant of AMPK Contribute to Increased Myocardial Glycogen. Circulation: Cardiovascular Genetics, 2009, 2, 457-466.	5.1	31
152	Comparison of two commonly used clinical cognitive screening tests to diagnose mild cognitive impairment in heart failure with the golden standard European Consortium Criteria. International Journal of Cardiology, 2017, 228, 558-562.	0.8	31
153	The anti-inflammatory and analgesic effects of formulated full-spectrum cannabis extract in the treatment of neuropathic pain associated with multiple sclerosis. Inflammation Research, 2020, 69, 549-558.	1.6	31
154	Multiphasic triacylglycerol dynamics in the intact heart during acute in vivo overexpression of CD36. Journal of Lipid Research, 2013, 54, 97-106.	2.0	30
155	2-Methoxyestradiol protects against pressure overload-induced left ventricular hypertrophy. Scientific Reports, 2018, 8, 2780.	1.6	30
156	Resveratrol reduces cardiac NLRP3â€inflammasome activation and systemic inflammation to lessen doxorubicinâ€induced cardiotoxicity in juvenile mice. FEBS Letters, 2021, 595, 1681-1695.	1.3	30
157	Relative importance of malonyl CoA and carnitine in maturation of fatty acid oxidation in newborn rabbit heart. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H283-H289.	1.5	29
158	Modulator of Apoptosis 1 (MOAP-1) Is a Tumor Suppressor Protein Linked to the RASSF1A Protein. Journal of Biological Chemistry, 2015, 290, 24100-24118.	1.6	28
159	Differentiating heart failure phenotypes using sexâ€specific transcriptomic and proteomic biomarker panels. ESC Heart Failure, 2017, 4, 301-311.	1.4	28
160	Age-related cardiovascular disease and the beneficial effects of calorie restriction. Heart Failure Reviews, 2012, 17, 707-719.	1.7	27
161	The Alberta Heart Failure Etiology and Analysis Research Team (HEART) study. BMC Cardiovascular Disorders, 2014, 14, 91.	0.7	27
162	Experimental Studies of the Molecular Pathways Regulated by Exercise and Resveratrol in Heart, Skeletal Muscle and the Vasculature. Molecules, 2014, 19, 14919-14947.	1.7	26

#	Article	IF	Citations
163	Characterization of a novel multifunctional resveratrol derivative for the treatment of atrial fibrillation. British Journal of Pharmacology, 2014, 171, 92-106.	2.7	26
164	Improved cardiac metabolism and activation of the RISK pathway contributes to improved post-ischemic recovery in calorie restricted mice. Journal of Molecular Medicine, 2011, 89, 291-302.	1.7	24
165	Calreticulin Induces Dilated Cardiomyopathy. PLoS ONE, 2013, 8, e56387.	1.1	24
166	The beneficial effects of reducing NLRP3 inflammasome activation in the cardiotoxicity and the anti-cancer effects of doxorubicin. Archives of Toxicology, 2021, 95, 1-9.	1.9	24
167	Change of Healthâ€Related Quality of Life Over Time and Its Association With Patient Outcomes in Patients With Heart Failure. Journal of the American Heart Association, 2020, 9, e017278.	1.6	23
168	Ketone therapy for heart failure: current evidence for clinical use. Cardiovascular Research, 2022, 118, 977-987.	1.8	23
169	Mitochondrial Oxidative Stress Corrupts Coronary Collateral Growth by Activating Adenosine Monophosphate Activated Kinase-Î± Signaling. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 1911-1919.	1.1	22
170	Effects of adenosine on myocardial glucose and palmitate metabolism after transient ischemia: role of 5â€²-AMP-activated protein kinase. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H1883-H1892.	1.5	21
171	Layer-specific strain in patients with heart failure using cardiovascular magnetic resonance: not all layers are the same. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 81.	1.6	21
172	Atglistatin ameliorates functional decline in heart failure via adipocyte-specific inhibition of adipose triglyceride lipase. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H879-H884.	1.5	20
173	Inhibition of ATGL in adipose tissue ameliorates isoproterenol-induced cardiac remodeling by reducing adipose tissue inflammation. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H432-H446.	1.5	20
174	Expression, purification, and characterization of human malonyl-CoA decarboxylase. Protein Expression and Purification, 2004, 34, 261-269.	0.6	19
175	Heteroaryl substituted bis-trifluoromethyl carbinols as malonyl-CoA decarboxylase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 3484-3488.	1.0	18
176	Regulation of NHE1 expression in L6 muscle cells. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1996, 1306, 107-113.	2.4	17
177	Title is missing!. , 1998, 180, 85-93.		17
178	AMP-activated protein kinase influences metabolic remodeling in H9c2 cells hypertrophied by arginine vasopressin. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H1822-H1832.	1.5	17
179	Intracellular Long-Chain Acyl CoAs Activate TRPV1 Channels. PLoS ONE, 2014, 9, e96597.	1.1	17
180	Cardiovascular susceptibility to in vivo ischemic myocardial injury in male and female rat offspring exposed to prenatal hypoxia. Clinical Science, 2017, 131, 2303-2317.	1.8	17

#	Article	IF	Citations
181	Resveratrol and Resveratrol-Aspirin Hybrid Compounds as Potent Intestinal Anti-Inflammatory and Anti-Tumor Drugs. Molecules, 2020, 25, 3849.	1.7	17
182	Characterization of rat liver malonyl-CoA decarboxylase and the study of its role in regulating fatty acid metabolism. Biochemical Journal, 2000, 350, 599.	1.7	16
183	Skeletal muscle ACC2 S212 phosphorylation is not required for the control of fatty acid oxidation during exercise. Physiological Reports, 2015, 3, e12444.	0.7	16
184	Volume and Patterns of Physical Activity Across the Health and Heart Failure Continuum. Canadian Journal of Cardiology, 2017, 33, 1465-1471.	0.8	16
185	Chronic exogenous ketone supplementation blunts the decline of cardiac function in the failing heart. ESC Heart Failure, 2021, 8, 5606-5612.	1.4	16
186	Cardiomyocyte specific adipose triglyceride lipase overexpression prevents doxorubicin induced cardiac dysfunction in female mice. Heart, 2013, 99, 1041-1047.	1.2	15
187	Enhanced recovery from ischemiaâ€“reperfusion injury in PI3KÎ± dominant negative hearts: Investigating the role of alternate PI3K isoforms, increased glucose oxidation and MAPK signaling. Journal of Molecular and Cellular Cardiology, 2013, 54, 9-18.	0.9	15
188	Peripheral chemoreceptor control of cardiovascular function at rest and during exercise in heart failure patients. Journal of Applied Physiology, 2015, 118, 839-848.	1.2	15
189	Vagus nerve contributes to the development of steatohepatitis and obesity in phosphatidylethanolamine N-methyltransferase deficient mice. Journal of Hepatology, 2015, 62, 913-920.	1.8	15
190	Cloning and expression of rat pancreatic Î²-cell malonyl-CoA decarboxylase. Biochemical Journal, 1999, 340, 213.	1.7	14
191	Quantification of lung water in heart failure using cardiovascular magnetic resonanceÂimaging. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 58.	1.6	14
192	Genetic and Pharmacological Inhibition of Malonyl CoA Decarboxylase Does Not Exacerbate Age-Related Insulin Resistance in Mice. Diabetes, 2016, 65, 1883-1891.	0.3	13
193	A Description of the Medical Cannabis Use in Ontario, Canada. Cannabis and Cannabinoid Research, 2019, 4, 131-135.	1.5	13
194	The Ischemic Heart. Circulation, 2007, 116, 2779-2781.	1.6	12
195	Differential regulation of the expressions of the PGC-1Î± splice variants, lipins, and PPARÎ± in heart compared to liver. Journal of Lipid Research, 2013, 54, 1662-1677.	2.0	12
196	Proteomic biomarkers of recovered heart function. European Journal of Heart Failure, 2014, 16, 551-559.	2.9	12
197	A novel complex I inhibitor protects against hypertension-induced left ventricular hypertrophy. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H561-H570.	1.5	12
198	Opioid use in medical cannabis authorization adult patients from 2013 to 2018: Alberta, Canada. BMC Public Health, 2021, 21, 843.	1.2	12

#	Article	IF	Citations
199	Cardiac remodelling predicts outcome in patients with chronic heart failure. ESC Heart Failure, 2021, 8, 5352-5362.	1.4	12
200	Identification of a small Na+/H+exchanger-like message in the rabbit myocardium. FEBS Letters, 1992, 310, 255-259.	1.3	11
201	Subclinical Pulmonary Edema Is Associated With Reduced Exercise Capacity in HFpEF and HFrEF. Journal of the American College of Cardiology, 2017, 70, 1827-1828.	1.2	11
202	Advanced iron-overload cardiomyopathy in a genetic murine model is rescued by resveratrol therapy. Bioscience Reports, 2018, 38, .	1.1	11
203	Structural Valve Deterioration Is Linked to Increased Immune Infiltrate and Chemokine Expression. Journal of Cardiovascular Translational Research, 2021, 14, 503-512.	1.1	11
204	The Multiple Effects of SGLT2 Inhibitors Suggest Potential Benefit in COVID-19 Patients. Canadian Journal of Cardiology, 2020, 36, 1691.e3.	0.8	11
205	Resveratrol: Challenges in translating pre-clinical findings to improved patient outcomes. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 1069-1070.	1.8	10
206	Breast cancer diagnosis is associated with relative left ventricular hypertrophy and elevated endothelin-1 signaling. BMC Cancer, 2020, 20, 751.	1.1	10
207	Changes in patient health questionnaire (PHQ-9) scores in adults with medical authorization for cannabis. BMC Public Health, 2020, 20, 987.	1.2	10
208	Prolonged repolarization and triggered activity induced by adenoviral expression of HERG N629D in cardiomyocytes derived from stem cells. Cardiovascular Research, 2004, 61, 268-277.	1.8	9
209	Effects of age, gender, and riskâ€factors for heart failure on native myocardial T₁ and extracellular volume fraction using the SASHA sequence at 1.5T. Journal of Magnetic Resonance Imaging, 2018, 48, 1307-1317.	1.9	9
210	Muscle expression of a malonyl-CoA-insensitive carnitine palmitoyltransferase-1 protects mice against high-fat/high-sucrose diet-induced insulin resistance. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E649-E660.	1.8	8
211	Hearts lacking plasma membrane K_{ATP} channels display changes in basal aerobic metabolic substrate preference and AMPK activity. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H469-H478.	1.5	8
212	Cohort study of medical cannabis authorisation and healthcare utilisation in 2014â€“2017 in Ontario, Canada. Journal of Epidemiology and Community Health, 2020, 74, 299-304.	2.0	8
213	The AMPK Î³1 R70Q mutant regulates multiple metabolic and growth pathways in neonatal cardiac myocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H3456-H3464.	1.5	7
214	Cardiac adaptations to obesity, diabetes and insulin resistance. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 1905-1907.	1.8	7
215	Circulating troponin and further left ventricular ejection fraction improvement in patients with previously recovered left ventricular ejection fraction. ESC Heart Failure, 2020, 7, 2725-2733.	1.4	7
216	Glucose metabolism, H+ production and Na+/H+- exchanger mRNA levels in ischemic hearts from diabetic rats. , 1998, , 85-93.		7

#	Article	IF	Citations
217	Preparing Today's Cardiovascular Trainees to Meet the Challenges of Tomorrow: Team Research and Interdisciplinary Training. Canadian Journal of Cardiology, 2014, 30, 683-686.	0.8	6
218	Chronic insulin infusion induces reversible glucose intolerance in lean rats yet ameliorates glucose intolerance in obese rats. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 313-322.	1.1	6
219	Gaps in evidence for the use of medically authorized cannabis: Ontario and Alberta, Canada. Harm Reduction Journal, 2021, 18, 61.	1.3	5
220	Medical cannabis authorization and the risk of cardiovascular events: a longitudinal cohort study. BMC Cardiovascular Disorders, 2021, 21, 426.	0.7	5
221	Ameliorative Role of Fluconazole Against Abdominal Aortic Constrictionâ€“Induced Cardiac Hypertrophy in Rats. Journal of Cardiovascular Pharmacology, 2022, 79, 833-845.	0.8	5
222	Cohort study of medical cannabis authorization and motor vehicle crash-related healthcare visits in 2014â€“2017 in Ontario, Canada. Injury Epidemiology, 2021, 8, 33.	0.8	4
223	Divergent Cardiac Effects of Angiotensin II and Isoproterenol Following Juvenile Exposure to Doxorubicin. Frontiers in Cardiovascular Medicine, 2022, 9, 742193.	1.1	3
224	The Impact of COVID-19 on Diabetes Research in Canada. Canadian Journal of Diabetes, 2020, 44, 369.	0.4	2
225	Normoglycemia sensitizes MDAâ€MBâ€231 breast cancer cells to metformin through an AMPKâ€dependent mechanism (LB610). FASEB Journal, 2014, 28, LB610.	0.2	2
226	Metabolomic Fingerprint of Behavioral Changes in Response to Full-Spectrum Cannabis Extracts. Frontiers in Pharmacology, 2022, 13, 831052.	1.6	2
227	The role of post-translational protein modifications on heart and vascular metabolism. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 2197-2198.	1.8	1
228	Quantification of pulmonary edema in heart failure using MRI: invasive validation and evaluation in HFpEF and HFrEF patients. Journal of Cardiovascular Magnetic Resonance, 2016, 18, O49.	1.6	1
229	The pharmacological effects of inhaled cannabis on pain in patients with multiple sclerosis: risks versus rewards. Inflammation Research, 2020, 69, 1073-1076.	1.6	1
230	Effects of age, gender, and risk-factors for heart failure on native myocardial T1 and extracellular volume fraction using the SASHA sequence at 1.5T. Journal of Magnetic Resonance Imaging, 2018, 48, spcone-spcone.	1.9	0
231	Fluconazole Protects against Abdominal Aortic Constrictionâ€Induced Cardiac Hypertrophy. FASEB Journal, 2021, 35, .	0.2	0
232	Inhibition of hepatic phosphatidylcholine synthesis by AICAR and phenformin is independent of AMPâ€activated protein kinase (AMPK) activation.. FASEB Journal, 2006, 20, A91.	0.2	0
233	Increased KATP channel current in pancreatic beta cells over expressing fatty acyl CoA synthetase I. FASEB Journal, 2006, 20, A299.	0.2	0
234	AMPK and Metabolic Remodeling in Cardiac Disease. , 2012, , 113-150.		0

#	Article	IF	Citations
235	Reducing Oxidative Stress and Manipulating Molecular Signaling Events Using Resveratrol as a Therapy for Pathological Cardiac Hypertrophy. , 2013, , 227-254.		0
236	Effect of lowâ€dose dopamine on cardioâ€respiratory physiology in heart failure patients. FASEB Journal, 2013, 27, 928.6.	0.2	0
237	Understanding the Potential Benefits of Cannabidiol for Patients With Schizophrenia: A Narrative Review. Schizophrenia Bulletin Open, 2022, 3, .	0.9	0
238	Substance Use Disorders and Psychoactive Drug Poisoning in Medically Authorized Cannabis Patients: Longitudinal Cohort Study. Canadian Journal of Psychiatry, 2021, , 070674372110605.	0.9	0