

Jason R B Dyck

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

229
papers

16,258
citations

69
h-index

121
g-index

238
ext. papers

18,405
ext. citations

6.7
avg, IF

6.43
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 229 | Mitochondrial overload and incomplete fatty acid oxidation contribute to skeletal muscle insulin resistance. <i>Cell Metabolism</i> , 2008 , 7, 45-56 | 24.6 | 1378 |
| 228 | Single phosphorylation sites in Acc1 and Acc2 regulate lipid homeostasis and the insulin-sensitizing effects of metformin. <i>Nature Medicine</i> , 2013 , 19, 1649-54 | 50.5 | 503 |
| 227 | Phosphodiesterase type 5 is highly expressed in the hypertrophied human right ventricle, and acute inhibition of phosphodiesterase type 5 improves contractility. <i>Circulation</i> , 2007 , 116, 238-48 | 16.7 | 420 |
| 226 | Intracellular action of matrix metalloproteinase-2 accounts for acute myocardial ischemia and reperfusion injury. <i>Circulation</i> , 2002 , 106, 1543-9 | 16.7 | 372 |
| 225 | Dichloroacetate prevents and reverses pulmonary hypertension by inducing pulmonary artery smooth muscle cell apoptosis. <i>Circulation Research</i> , 2004 , 95, 830-40 | 15.7 | 361 |
| 224 | Liver-specific inhibition of ChREBP improves hepatic steatosis and insulin resistance in ob/ob mice. <i>Diabetes</i> , 2006 , 55, 2159-70 | 0.9 | 322 |
| 223 | Increased hepatic CD36 expression contributes to dyslipidemia associated with diet-induced obesity. <i>Diabetes</i> , 2007 , 56, 2863-71 | 0.9 | 320 |
| 222 | Epigenetic attenuation of mitochondrial superoxide dismutase 2 in pulmonary arterial hypertension: a basis for excessive cell proliferation and a new therapeutic target. <i>Circulation</i> , 2010 , 121, 2661-71 | 16.7 | 301 |
| 221 | Akt activity negatively regulates phosphorylation of AMP-activated protein kinase in the heart. <i>Journal of Biological Chemistry</i> , 2003 , 278, 39422-7 | 5.4 | 298 |
| 220 | Dichloroacetate, a metabolic modulator, prevents and reverses chronic hypoxic pulmonary hypertension in rats: role of increased expression and activity of voltage-gated potassium channels. <i>Circulation</i> , 2002 , 105, 244-50 | 16.7 | 291 |
| 219 | A pivotal role for endogenous TGF-beta-activated kinase-1 in the LKB1/AMP-activated protein kinase energy-sensor pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 17378-83 | 11.5 | 289 |
| 218 | AMPK alterations in cardiac physiology and pathology: enemy or ally?. <i>Journal of Physiology</i> , 2006 , 574, 95-112 | 3.9 | 289 |
| 217 | Inhibiting peripheral serotonin synthesis reduces obesity and metabolic dysfunction by promoting brown adipose tissue thermogenesis. <i>Nature Medicine</i> , 2015 , 21, 166-72 | 50.5 | 288 |
| 216 | Activation of AMP-activated protein kinase inhibits protein synthesis associated with hypertrophy in the cardiac myocyte. <i>Journal of Biological Chemistry</i> , 2004 , 279, 32771-9 | 5.4 | 261 |
| 215 | Disruption of the circadian clock within the cardiomyocyte influences myocardial contractile function, metabolism, and gene expression. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H1036-47 | 5.2 | 252 |
| 214 | 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. <i>Circulation</i> , 2003 , 107, 2037-44 | 16.7 | 226 |
| 213 | A role for peroxisome proliferator-activated receptor alpha (PPARalpha) in the control of cardiac malonyl-CoA levels: reduced fatty acid oxidation rates and increased glucose oxidation rates in the hearts of mice lacking PPARalpha are associated with higher concentrations of malonyl-CoA and reduced expression of malonyl-CoA decarboxylase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 1098-103 | 5.4 | 205 |

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|-----|--|------|-----|
| 212 | Preclinical and clinical evidence for the role of resveratrol in the treatment of cardiovascular diseases. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015 , 1852, 1155-77 | 6.9 | 204 |
| 211 | Resveratrol inhibits cardiac hypertrophy via AMP-activated protein kinase and Akt. <i>Journal of Biological Chemistry</i> , 2008 , 283, 24194-201 | 5.4 | 192 |
| 210 | Resveratrol prevents the prohypertrophic effects of oxidative stress on LKB1. <i>Circulation</i> , 2009 , 119, 1643-52 | 16.7 | 186 |
| 209 | Short communication: ischemia/reperfusion tolerance is time-of-day-dependent: mediation by the cardiomyocyte circadian clock. <i>Circulation Research</i> , 2010 , 106, 546-50 | 15.7 | 170 |
| 208 | Malonyl coenzyme a decarboxylase inhibition protects the ischemic heart by inhibiting fatty acid oxidation and stimulating glucose oxidation. <i>Circulation Research</i> , 2004 , 94, e78-84 | 15.7 | 165 |
| 207 | Regulation of 5RAMP-activated protein kinase activity by the noncatalytic beta and gamma subunits. <i>Journal of Biological Chemistry</i> , 1996 , 271, 17798-803 | 5.4 | 161 |
| 206 | The Emerging Role of Metabolomics in the Diagnosis and Prognosis of Cardiovascular Disease. <i>Journal of the American College of Cardiology</i> , 2016 , 68, 2850-2870 | 15.1 | 158 |
| 205 | Fatty acid oxidation and malonyl-CoA decarboxylase in the vascular remodeling of pulmonary hypertension. <i>Science Translational Medicine</i> , 2010 , 2, 44ra58 | 17.5 | 149 |
| 204 | Resveratrol as a calorie restriction mimetic: therapeutic implications. <i>Trends in Cell Biology</i> , 2012 , 22, 546-54 | 18.3 | 147 |
| 203 | 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. <i>Circulation Research</i> , 2003 , 93, e33-7 | 15.7 | 144 |
| 202 | O ₂ sensing in the human ductus arteriosus: regulation of voltage-gated K ⁺ channels in smooth muscle cells by a mitochondrial redox sensor. <i>Circulation Research</i> , 2002 , 91, 478-86 | 15.7 | 138 |
| 201 | Resveratrol prevents hypertension and cardiac hypertrophy in hypertensive rats and mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013 , 1832, 1723-33 | 6.9 | 137 |
| 200 | Stimulation of glucose oxidation protects against acute myocardial infarction and reperfusion injury. <i>Cardiovascular Research</i> , 2012 , 94, 359-69 | 9.9 | 133 |
| 199 | Impaired de novo choline synthesis explains why phosphatidylethanolamine N-methyltransferase-deficient mice are protected from diet-induced obesity. <i>Journal of Biological Chemistry</i> , 2010 , 285, 22403-13 | 5.4 | 131 |
| 198 | Loss of TGH/Ces3 in mice decreases blood lipids, improves glucose tolerance, and increases energy expenditure. <i>Cell Metabolism</i> , 2010 , 11, 183-93 | 24.6 | 130 |
| 197 | Phosphorylation control of cardiac acetyl-CoA carboxylase by cAMP-dependent protein kinase and 5RAMP activated protein kinase. <i>FEBS Journal</i> , 1999 , 262, 184-90 | | 125 |
| 196 | Improved Glucose Homeostasis in Obese Mice Treated With Resveratrol Is Associated With Alterations in the Gut Microbiome. <i>Diabetes</i> , 2017 , 66, 418-425 | 0.9 | 121 |
| 195 | Calorie restriction and resveratrol in cardiovascular health and disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011 , 1812, 1477-89 | 6.9 | 119 |

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|-----|---|------|-----|
| 194 | Cardiac-specific deletion of LKB1 leads to hypertrophy and dysfunction. <i>Journal of Biological Chemistry</i> , 2009 , 284, 35839-49 | 5.4 | 119 |
| 193 | Improvements in skeletal muscle strength and cardiac function induced by resveratrol during exercise training contribute to enhanced exercise performance in rats. <i>Journal of Physiology</i> , 2012 , 590, 2783-99 | 3.9 | 118 |
| 192 | Posttranslational modifications of the 5RAMP-activated protein kinase beta1 subunit. <i>Journal of Biological Chemistry</i> , 1997 , 272, 24475-9 | 5.4 | 118 |
| 191 | Absence of malonyl coenzyme A decarboxylase in mice increases cardiac glucose oxidation and protects the heart from ischemic injury. <i>Circulation</i> , 2006 , 114, 1721-8 | 16.7 | 118 |
| 190 | Fatty acid translocase/CD36 deficiency does not energetically or functionally compromise hearts before or after ischemia. <i>Circulation</i> , 2004 , 109, 1550-7 | 16.7 | 113 |
| 189 | Non-catalytic beta- and gamma-subunit isoforms of the 5RAMP-activated protein kinase. <i>Journal of Biological Chemistry</i> , 1996 , 271, 8675-81 | 5.4 | 113 |
| 188 | Role of AMP-activated protein kinase in healthy and diseased hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 291, H2557-69 | 5.2 | 107 |
| 187 | Metabolomic fingerprint of heart failure with preserved ejection fraction. <i>PLoS ONE</i> , 2015 , 10, e0124844 | 5.7 | 106 |
| 186 | Hypoxia-induced intrauterine growth restriction increases the susceptibility of rats to high-fat diet-induced metabolic syndrome. <i>Diabetes</i> , 2011 , 60, 507-16 | 0.9 | 105 |
| 185 | Hyperpolarized (13)C magnetic resonance reveals early- and late-onset changes to in vivo pyruvate metabolism in the failing heart. <i>European Journal of Heart Failure</i> , 2013 , 15, 130-40 | 12.3 | 104 |
| 184 | Insulin-stimulated cardiac glucose oxidation is increased in high-fat diet-induced obese mice lacking malonyl CoA decarboxylase. <i>Diabetes</i> , 2009 , 58, 1766-75 | 0.9 | 104 |
| 183 | Calorie restriction prevents hypertension and cardiac hypertrophy in the spontaneously hypertensive rat. <i>Hypertension</i> , 2010 , 56, 412-21 | 8.5 | 97 |
| 182 | O-GlcNAcylation, novel post-translational modification linking myocardial metabolism and cardiomyocyte circadian clock. <i>Journal of Biological Chemistry</i> , 2011 , 286, 44606-19 | 5.4 | 95 |
| 181 | Dehydroepiandrosterone reverses systemic vascular remodeling through the inhibition of the Akt/GSK3- β /NFAT axis. <i>Circulation</i> , 2009 , 120, 1231-40 | 16.7 | 95 |
| 180 | CD36 expression contributes to age-induced cardiomyopathy in mice. <i>Circulation</i> , 2007 , 116, 2139-47 | 16.7 | 90 |
| 179 | Both aerobic exercise and resveratrol supplementation attenuate doxorubicin-induced cardiac injury in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013 , 305, E243-53 | 6 | 89 |
| 178 | Oxygen-sensitive Kv channel gene transfer confers oxygen responsiveness to preterm rabbit and remodeled human ductus arteriosus: implications for infants with patent ductus arteriosus. <i>Circulation</i> , 2004 , 110, 1372-9 | 16.7 | 89 |
| 177 | AMPK phosphorylation of ACC2 is required for skeletal muscle fatty acid oxidation and insulin sensitivity in mice. <i>Diabetologia</i> , 2014 , 57, 1693-702 | 10.3 | 88 |

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|-----|--|------|----|
| 176 | Empagliflozin Prevents Worsening of Cardiac Function in an Experimental Model of Pressure Overload-Induced Heart Failure. <i>JACC Basic To Translational Science</i> , 2017 , 2, 347-354 | 8.7 | 87 |
| 175 | Exercise modulation of the host-tumor interaction in an orthotopic model of murine prostate cancer. <i>Journal of Applied Physiology</i> , 2012 , 113, 263-72 | 3.7 | 83 |
| 174 | Metabolic and signaling alterations in dystrophin-deficient hearts precede overt cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2007 , 43, 119-29 | 5.8 | 83 |
| 173 | Fatty acid oxidation in the reperfused ischemic heart. <i>American Journal of the Medical Sciences</i> , 1999 , 318, 3-14 | 2.2 | 82 |
| 172 | Direct regulation of myocardial triglyceride metabolism by the cardiomyocyte circadian clock. <i>Journal of Biological Chemistry</i> , 2010 , 285, 2918-29 | 5.4 | 81 |
| 171 | Myocardial ATGL overexpression decreases the reliance on fatty acid oxidation and protects against pressure overload-induced cardiac dysfunction. <i>Molecular and Cellular Biology</i> , 2012 , 32, 740-50 | 4.8 | 81 |
| 170 | A dynamic and chamber-specific mitochondrial remodeling in right ventricular hypertrophy can be therapeutically targeted. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2008 , 136, 168-78, 178.e1-3 | 1.5 | 79 |
| 169 | Shedding light on the enigma of myocardial lipotoxicity: the involvement of known and putative regulators of fatty acid storage and mobilization. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 298, E897-908 | 6 | 77 |
| 168 | Activation of cardiac AMP-activated protein kinase by LKB1 expression or chemical hypoxia is blunted by increased Akt activity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 290, H2472-9 | 5.2 | 77 |
| 167 | Distinct transcriptional regulation of long-chain acyl-CoA synthetase isoforms and cytosolic thioesterase 1 in the rodent heart by fatty acids and insulin. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 290, H2480-97 | 5.2 | 76 |
| 166 | Constitutively active adenosine monophosphate-activated protein kinase regulates voltage-gated sodium channels in ventricular myocytes. <i>Circulation</i> , 2003 , 107, 1962-5 | 16.7 | 76 |
| 165 | The Effects of Resveratrol in Patients with Cardiovascular Disease and Heart Failure: A Narrative Review. <i>International Journal of Molecular Sciences</i> , 2019 , 20, | 6.3 | 75 |
| 164 | Evidence suggesting that the cardiomyocyte circadian clock modulates responsiveness of the heart to hypertrophic stimuli in mice. <i>Chronobiology International</i> , 2011 , 28, 187-203 | 3.6 | 74 |
| 163 | The role of AMPK in cardiomyocyte health and survival. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016 , 1862, 2199-2210 | 6.9 | 72 |
| 162 | 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. <i>PLoS ONE</i> , 2014 , 9, e99495 | 3.7 | 71 |
| 161 | Malonyl CoA control of fatty acid oxidation in the ischemic heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2002 , 34, 1099-109 | 5.8 | 71 |
| 160 | Increased ketone body oxidation provides additional energy for the failing heart without improving cardiac efficiency. <i>Cardiovascular Research</i> , 2019 , 115, 1606-1616 | 9.9 | 69 |
| 159 | Identification of genes regulated during mechanical load-induced cardiac hypertrophy. <i>Journal of Molecular and Cellular Cardiology</i> , 2000 , 32, 805-15 | 5.8 | 69 |

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|-----|--|-----|----|
| 158 | Empagliflozin Blunts Worsening Cardiac Dysfunction Associated With Reduced NLRP3 (Nucleotide-Binding Domain-Like Receptor Protein 3) Inflammasome Activation in Heart Failure. <i>Circulation: Heart Failure</i> , 2020 , 13, e006277 | 7.6 | 68 |
| 157 | Myocardial adipose triglyceride lipase overexpression protects diabetic mice from the development of lipotoxic cardiomyopathy. <i>Diabetes</i> , 2013 , 62, 1464-77 | 0.9 | 68 |
| 156 | Metabolic actions of metformin in the heart can occur by AMPK-independent mechanisms. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H2497-506 | 5.2 | 68 |
| 155 | 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. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014 , 1840, 1943-57 | 4 | 67 |
| 154 | Resveratrol treatment of mice with pressure-overload-induced heart failure improves diastolic function and cardiac energy metabolism. <i>Circulation: Heart Failure</i> , 2015 , 8, 128-37 | 7.6 | 66 |
| 153 | Characterization of cardiac malonyl-CoA decarboxylase and its putative role in regulating fatty acid oxidation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998 , 275, H2122-9 | 5.2 | 65 |
| 152 | Increased hepatic CD36 expression with age is associated with enhanced susceptibility to nonalcoholic fatty liver disease. <i>Aging</i> , 2014 , 6, 281-95 | 5.6 | 64 |
| 151 | Iron-overload injury and cardiomyopathy in acquired and genetic models is attenuated by resveratrol therapy. <i>Scientific Reports</i> , 2015 , 5, 18132 | 4.9 | 63 |
| 150 | Is AMPK the savior of the failing heart?. <i>Trends in Endocrinology and Metabolism</i> , 2015 , 26, 40-8 | 8.8 | 59 |
| 149 | Continued postnatal administration of resveratrol prevents diet-induced metabolic syndrome in rat offspring born growth restricted. <i>Diabetes</i> , 2011 , 60, 2274-84 | 0.9 | 59 |
| 148 | Activation of AMP-activated protein kinase (AMPK) inhibits protein synthesis: a potential strategy to prevent the development of cardiac hypertrophy. <i>Canadian Journal of Physiology and Pharmacology</i> , 2005 , 83, 24-8 | 2.4 | 57 |
| 147 | Malonyl-CoA decarboxylase inhibition suppresses fatty acid oxidation and reduces lactate production during demand-induced ischemia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 289, H2304-9 | 5.2 | 56 |
| 146 | Characterization of rat liver malonyl-CoA decarboxylase and the study of its role in regulating fatty acid metabolism. <i>Biochemical Journal</i> , 2000 , 350, 599-608 | 3.8 | 56 |
| 145 | LKB1 regulates lipid oxidation during exercise independently of AMPK. <i>Diabetes</i> , 2013 , 62, 1490-9 | 0.9 | 54 |
| 144 | Alterations in skeletal muscle fatty acid handling predisposes middle-aged mice to diet-induced insulin resistance. <i>Diabetes</i> , 2010 , 59, 1366-75 | 0.9 | 54 |
| 143 | Myocardial triacylglycerol metabolism. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 55, 101-10 | 5.8 | 51 |
| 142 | Systemic and renal oxidative stress in the pathogenesis of hypertension: modulation of long-term control of arterial blood pressure by resveratrol. <i>Frontiers in Physiology</i> , 2014 , 5, 292 | 4.6 | 50 |
| 141 | Resveratrol improves exercise performance and skeletal muscle oxidative capacity in heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 312, H842-H853 | 5.2 | 49 |

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|-----|---|-----|----|
| 140 | Fatty Acid Oxidation in the Reperfused Ischemic Heart. <i>American Journal of the Medical Sciences</i> , 1999 , 318, 3-14 | 2.2 | 49 |
| 139 | Cardiomyocyte-specific ablation of CD36 improves post-ischemic functional recovery. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 63, 180-8 | 5.8 | 48 |
| 138 | AMPK deficiency in cardiac muscle results in dilated cardiomyopathy in the absence of changes in energy metabolism. <i>Cardiovascular Research</i> , 2015 , 107, 235-45 | 9.9 | 47 |
| 137 | Increased CD36 expression in middle-aged mice contributes to obesity-related cardiac hypertrophy in the absence of cardiac dysfunction. <i>Journal of Molecular Medicine</i> , 2011 , 89, 459-69 | 5.5 | 47 |
| 136 | Circadian rhythms in myocardial metabolism and contractile function: influence of workload and oleate. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H2385-93 | 5.2 | 47 |
| 135 | The role of CD36 in the regulation of myocardial lipid metabolism. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016 , 1861, 1450-60 | 5 | 46 |
| 134 | Uncoupling of glycolysis from glucose oxidation accompanies the development of heart failure with preserved ejection fraction. <i>Molecular Medicine</i> , 2018 , 24, 3 | 6.2 | 44 |
| 133 | Inhibition of hepatic phosphatidylcholine synthesis by 5-aminoimidazole-4-carboxamide-1-beta-4-ribofuranoside is independent of AMP-activated protein kinase activation. <i>Journal of Biological Chemistry</i> , 2007 , 282, 4516-4523 | 5.4 | 44 |
| 132 | Metabolic effects of insulin on cardiomyocytes from control and diabetic db/db mouse hearts. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 288, E900-6 | 6 | 44 |
| 131 | Impaired branched chain amino acid oxidation contributes to cardiac insulin resistance in heart failure. <i>Cardiovascular Diabetology</i> , 2019 , 18, 86 | 8.7 | 43 |
| 130 | Early structural and metabolic cardiac remodelling in response to inducible adipose triglyceride lipase ablation. <i>Cardiovascular Research</i> , 2013 , 99, 442-51 | 9.9 | 43 |
| 129 | Metabolic regulation of sodium-calcium exchange by intracellular acyl CoAs. <i>EMBO Journal</i> , 2006 , 25, 4605-14 | 13 | 43 |
| 128 | Therapeutic potential of resveratrol in heart failure. <i>Annals of the New York Academy of Sciences</i> , 2015 , 1348, 32-45 | 6.5 | 42 |
| 127 | Activation of the Na ⁺ /H ⁺ exchanger gene by the transcription factor AP-2. <i>Journal of Biological Chemistry</i> , 1995 , 270, 1375-81 | 5.4 | 42 |
| 126 | Hypoxic regulation of hand1 controls the fetal-neonatal switch in cardiac metabolism. <i>PLoS Biology</i> , 2013 , 11, e1001666 | 9.7 | 41 |
| 125 | Activation of Akt protects alveoli from neonatal oxygen-induced lung injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2011 , 44, 146-54 | 5.7 | 41 |
| 124 | Malonyl-CoA decarboxylase (MCD) is differentially regulated in subcellular compartments by 5AMP-activated protein kinase (AMPK). Studies using H9c2 cells overexpressing MCD and AMPK by adenoviral gene transfer technique. <i>FEBS Journal</i> , 2004 , 271, 2831-40 | | 41 |
| 123 | Perinatal Resveratrol Supplementation to Spontaneously Hypertensive Rat Dams Mitigates the Development of Hypertension in Adult Offspring. <i>Hypertension</i> , 2016 , 67, 1038-44 | 8.5 | 40 |

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|-----|---|------|----|
| 122 | Resveratrol inhibits neointimal formation after arterial injury through an endothelial nitric oxide synthase-dependent mechanism. <i>Atherosclerosis</i> , 2012 , 222, 375-81 | 3.1 | 40 |
| 121 | Inhibition of p38 MAPK and AMPK restores adenosine-induced cardioprotection in hearts stressed by antecedent ischemia by altering glucose utilization. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H1107-14 | 5.2 | 40 |
| 120 | Direct Effects of Empagliflozin on Extracellular Matrix Remodelling in Human Cardiac Myofibroblasts: Novel Translational Clues to Explain EMPA-REG OUTCOME Results. <i>Canadian Journal of Cardiology</i> , 2020 , 36, 543-553 | 3.8 | 40 |
| 119 | Post-translational modifications, a key process in CD36 function: lessons from the spontaneously hypertensive rat heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 51, 99-108 | 5.8 | 39 |
| 118 | Metabolic effects of glutamine on the heart: anaplerosis versus the hexosamine biosynthetic pathway. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 55, 92-100 | 5.8 | 38 |
| 117 | Discovery of potent and orally available malonyl-CoA decarboxylase inhibitors as cardioprotective agents. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 4055-8 | 8.3 | 38 |
| 116 | Fecal transplant from resveratrol-fed donors improves glycaemia and cardiovascular features of the metabolic syndrome in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018 , 315, E511-E519 | 6 | 37 |
| 115 | Expression of an active LKB1 complex in cardiac myocytes results in decreased protein synthesis associated with phenylephrine-induced hypertrophy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H1460-9 | 5.2 | 36 |
| 114 | Inhibition of the Unfolded Protein Response Mechanism Prevents Cardiac Fibrosis. <i>PLoS ONE</i> , 2016 , 11, e0159682 | 3.7 | 36 |
| 113 | Myocardial metabolism in diabetic cardiomyopathy: potential therapeutic targets. <i>Antioxidants and Redox Signaling</i> , 2015 , 22, 1606-30 | 8.4 | 35 |
| 112 | AMPK signalling and the control of substrate use in the heart. <i>Molecular and Cellular Endocrinology</i> , 2013 , 366, 180-93 | 4.4 | 34 |
| 111 | Carbonic anhydrase II promotes cardiomyocyte hypertrophy. <i>Canadian Journal of Physiology and Pharmacology</i> , 2012 , 90, 1599-610 | 2.4 | 34 |
| 110 | Phosphorylation of cardiac protein kinase B is regulated by palmitate. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 283, H1056-64 | 5.2 | 34 |
| 109 | Resveratrol prevents pathological but not physiological cardiac hypertrophy. <i>Journal of Molecular Medicine</i> , 2015 , 93, 413-25 | 5.5 | 33 |
| 108 | AMPK-dependent inhibitory phosphorylation of ACC is not essential for maintaining myocardial fatty acid oxidation. <i>Circulation Research</i> , 2014 , 115, 518-24 | 15.7 | 33 |
| 107 | Synergistic effects of prenatal hypoxia and postnatal high-fat diet in the development of cardiovascular pathology in young rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012 , 303, R418-26 | 3.2 | 33 |
| 106 | Specific activation of the Na ⁺ /H ⁺ exchanger gene during neuronal differentiation of embryonal carcinoma cells. <i>Journal of Biological Chemistry</i> , 1995 , 270, 10420-7 | 5.4 | 33 |
| 105 | Regulation of malonyl-CoA concentration and turnover in the normal heart. <i>Journal of Biological Chemistry</i> , 2004 , 279, 34298-301 | 5.4 | 32 |

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|-----|--|------|----|
| 104 | Impaired phosphatidylcholine biosynthesis reduces atherosclerosis and prevents lipotoxic cardiac dysfunction in ApoE ^{-/-} Mice. <i>Circulation Research</i> , 2011 , 108, 686-94 | 15.7 | 31 |
| 103 | Control of cardiac pyruvate dehydrogenase activity in peroxisome proliferator-activated receptor-alpha transgenic mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 285, H270-6 | 5.2 | 31 |
| 102 | Cloning and expression of rat pancreatic β cell malonyl-CoA decarboxylase. <i>Biochemical Journal</i> , 1999 , 340, 213-217 | 3.8 | 31 |
| 101 | Inhibition of beta-cell sodium-calcium exchange enhances glucose-dependent elevations in cytoplasmic calcium and insulin secretion. <i>Diabetes</i> , 2010 , 59, 1686-93 | 0.9 | 30 |
| 100 | p38 mitogen-activated protein kinase mediates adenosine-induced alterations in myocardial glucose utilization via 5RAMP-activated protein kinase. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H1978-85 | 5.2 | 30 |
| 99 | Malonyl-CoA decarboxylase is a major regulator of myocardial fatty acid oxidation. <i>Current Hypertension Reports</i> , 2005 , 7, 407-11 | 4.7 | 30 |
| 98 | Synthesis and structure-activity relationship of small-molecule malonyl coenzyme A decarboxylase inhibitors. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 1517-25 | 8.3 | 29 |
| 97 | Co-administration of resveratrol with doxorubicin in young mice attenuates detrimental late-occurring cardiovascular changes. <i>Cardiovascular Research</i> , 2018 , 114, 1350-1359 | 9.9 | 28 |
| 96 | Negative pressure ventilation decreases inflammation and lung edema during normothermic ex-vivo lung perfusion. <i>Journal of Heart and Lung Transplantation</i> , 2018 , 37, 520-530 | 5.8 | 28 |
| 95 | Relationship of glucose and oleate metabolism to cardiac function in lipin-1 deficient (fld) mice. <i>Journal of Lipid Research</i> , 2012 , 53, 105-18 | 6.3 | 28 |
| 94 | Regulation of cardiac malonyl-CoA content and fatty acid oxidation during increased cardiac power. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 289, H1033-7 | 5.2 | 28 |
| 93 | 5RAMP activated protein kinase α controls substrate metabolism during post-exercise recovery via regulation of pyruvate dehydrogenase kinase α . <i>Journal of Physiology</i> , 2015 , 593, 4765-80 | 3.9 | 27 |
| 92 | Resveratrol mediates therapeutic hepatic effects in acquired and genetic murine models of iron-overload. <i>Liver International</i> , 2016 , 36, 246-57 | 7.9 | 27 |
| 91 | Distinct early signaling events resulting from the expression of the PRKAG2 R302Q mutant of AMPK contribute to increased myocardial glycogen. <i>Circulation: Cardiovascular Genetics</i> , 2009 , 2, 457-66 | | 26 |
| 90 | Relative importance of malonyl CoA and carnitine in maturation of fatty acid oxidation in newborn rabbit heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 284, H283-9 | 5.2 | 26 |
| 89 | Cardiomyocyte-specific ablation of CD36 accelerates the progression from compensated cardiac hypertrophy to heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 312, H552-H560 | 5.2 | 25 |
| 88 | Normalization of cardiac substrate utilization and left ventricular hypertrophy precede functional recovery in heart failure regression. <i>Cardiovascular Research</i> , 2016 , 110, 249-57 | 9.9 | 24 |
| 87 | Differentiating heart failure phenotypes using sex-specific transcriptomic and proteomic biomarker panels. <i>ESC Heart Failure</i> , 2017 , 4, 301-311 | 3.7 | 24 |

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