

E Dale Abel

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238
papers

22,786
citations

82
h-index

147
g-index

267
ext. papers

26,688
ext. citations

8.9
avg, IF

7.09
L-index

#	Paper	IF	Citations
238	Diabetic cardiomyopathy revisited. <i>Circulation</i> , 2007 , 115, 3213-23	16.7	1161
237	Adipose-selective targeting of the GLUT4 gene impairs insulin action in muscle and liver. <i>Nature</i> , 2001 , 409, 729-33	50.4	923
236	Phosphoenolpyruvate Is a Metabolic Checkpoint of Anti-tumor T Cell Responses. <i>Cell</i> , 2015 , 162, 1217-28	36.2	746
235	PGC-1alpha deficiency causes multi-system energy metabolic derangements: muscle dysfunction, abnormal weight control and hepatic steatosis. <i>PLoS Biology</i> , 2005 , 3, e101	9.7	726
234	The glucose transporter Glut1 is selectively essential for CD4 T cell activation and effector function. <i>Cell Metabolism</i> , 2014 , 20, 61-72	24.6	621
233	Cardiac metabolism in heart failure: implications beyond ATP production. <i>Circulation Research</i> , 2013 , 113, 709-24	15.7	550
232	Molecular mechanisms of diabetic cardiomyopathy. <i>Diabetologia</i> , 2014 , 57, 660-71	10.3	502
231	Cardiac remodeling in obesity. <i>Physiological Reviews</i> , 2008 , 88, 389-419	47.9	497
230	Diabetic cardiomyopathy, causes and effects. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2010 , 11, 31-9	10.5	487
229	Mitochondrial energetics in the heart in obesity-related diabetes: direct evidence for increased uncoupled respiration and activation of uncoupling proteins. <i>Diabetes</i> , 2007 , 56, 2457-66	0.9	453
228	Reduced cardiac efficiency and altered substrate metabolism precedes the onset of hyperglycemia and contractile dysfunction in two mouse models of insulin resistance and obesity. <i>Endocrinology</i> , 2005 , 146, 5341-9	4.8	406
227	Reduced mitochondrial oxidative capacity and increased mitochondrial uncoupling impair myocardial energetics in obesity. <i>Circulation</i> , 2005 , 112, 2686-95	16.7	403
226	Impaired cardiac efficiency and increased fatty acid oxidation in insulin-resistant ob/ob mouse hearts. <i>Diabetes</i> , 2004 , 53, 2366-74	0.9	351
225	GLUT1 reductions exacerbate Alzheimer's disease vasculo-neuronal dysfunction and degeneration. <i>Nature Neuroscience</i> , 2015 , 18, 521-530	25.5	350
224	Nicotinamide riboside is uniquely and orally bioavailable in mice and humans. <i>Nature Communications</i> , 2016 , 7, 12948	17.4	349
223	Metabolic reprogramming is required for antibody production that is suppressed in anergic but exaggerated in chronically BAFF-exposed B cells. <i>Journal of Immunology</i> , 2014 , 192, 3626-36	5.3	282
222	Insulin signaling coordinately regulates cardiac size, metabolism, and contractile protein isoform expression. <i>Journal of Clinical Investigation</i> , 2002 , 109, 629-639	15.9	277

221	Ceramide is a cardiotoxin in lipotoxic cardiomyopathy. <i>Journal of Lipid Research</i> , 2008 , 49, 2101-12	6.3	271
220	Cardiac hypertrophy with preserved contractile function after selective deletion of GLUT4 from the heart. <i>Journal of Clinical Investigation</i> , 1999 , 104, 1703-14	15.9	254
219	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
218	Contribution of impaired myocardial insulin signaling to mitochondrial dysfunction and oxidative stress in the heart. <i>Circulation</i> , 2009 , 119, 1272-83	16.7	221
217	Lipotoxicity in the heart. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010 , 1801, 311-9	5	218
216	Ablation of PGC-1beta results in defective mitochondrial activity, thermogenesis, hepatic function, and cardiac performance. <i>PLoS Biology</i> , 2006 , 4, e369	9.7	217
215	Heart Failure in Type 2 Diabetes Mellitus. <i>Circulation Research</i> , 2019 , 124, 121-141	15.7	210
214	Targeted deletion of BMK1/ERK5 in adult mice perturbs vascular integrity and leads to endothelial failure. <i>Journal of Clinical Investigation</i> , 2004 , 113, 1138-1148	15.9	207
213	Rodent models of diabetic cardiomyopathy. <i>DMM Disease Models and Mechanisms</i> , 2009 , 2, 454-66	4.1	202
212	Insulin Signaling and Heart Failure. <i>Circulation Research</i> , 2016 , 118, 1151-69	15.7	197
211	Mitochondrial adaptations to physiological vs. pathological cardiac hypertrophy. <i>Cardiovascular Research</i> , 2011 , 90, 234-42	9.9	189
210	Inefficient reprogramming of fibroblasts into cardiomyocytes using Gata4, Mef2c, and Tbx5. <i>Circulation Research</i> , 2012 , 111, 50-5	15.7	188
209	Recipes for creating animal models of diabetic cardiovascular disease. <i>Circulation Research</i> , 2007 , 100, 1415-27	15.7	185
208	The role of mPer2 clock gene in glucocorticoid and feeding rhythms. <i>Endocrinology</i> , 2009 , 150, 2153-60	4.8	180
207	Minimally invasive aortic banding in mice: effects of altered cardiomyocyte insulin signaling during pressure overload. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 285, H1261-9	5.2	176
206	Responses of GLUT4-deficient hearts to ischemia underscore the importance of glycolysis. <i>Circulation</i> , 2001 , 103, 2961-6	16.7	174
205	Mitochondria in the diabetic heart. <i>Cardiovascular Research</i> , 2010 , 88, 229-40	9.9	171
204	Akt signaling mediates postnatal heart growth in response to insulin and nutritional status. <i>Journal of Biological Chemistry</i> , 2002 , 277, 37670-7	5.4	163

203	The intrinsic circadian clock within the cardiomyocyte. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 289, H1530-41	5.2	154
202	Excessive cardiac insulin signaling exacerbates systolic dysfunction induced by pressure overload in rodents. <i>Journal of Clinical Investigation</i> , 2010 , 120, 1506-14	15.9	153
201	Divergent roles for thyroid hormone receptor beta isoforms in the endocrine axis and auditory system. <i>Journal of Clinical Investigation</i> , 1999 , 104, 291-300	15.9	152
200	Glucose transport in the heart. <i>Frontiers in Bioscience - Landmark</i> , 2004 , 9, 201-15	2.8	151
199	Ceramide mediates vascular dysfunction in diet-induced obesity by PP2A-mediated dephosphorylation of the eNOS-Akt complex. <i>Diabetes</i> , 2012 , 61, 1848-59	0.9	149
198	Insulin-like growth factor I receptor signaling is required for exercise-induced cardiac hypertrophy. <i>Molecular Endocrinology</i> , 2008 , 22, 2531-43		148
197	Insulin stimulates mitochondrial fusion and function in cardiomyocytes via the Akt-mTOR-NFB-Opa-1 signaling pathway. <i>Diabetes</i> , 2014 , 63, 75-88	0.9	146
196	Contribution of insulin and Akt1 signaling to endothelial nitric oxide synthase in the regulation of endothelial function and blood pressure. <i>Circulation Research</i> , 2009 , 104, 1085-94	15.7	145
195	Molecular mechanisms for myocardial mitochondrial dysfunction in the metabolic syndrome. <i>Clinical Science</i> , 2008 , 114, 195-210	6.5	145
194	Insulin signaling coordinately regulates cardiac size, metabolism, and contractile protein isoform expression. <i>Journal of Clinical Investigation</i> , 2002 , 109, 629-39	15.9	143
193	Assessing Cardiac Metabolism: A Scientific Statement From the American Heart Association. <i>Circulation Research</i> , 2016 , 118, 1659-701	15.7	142
192	Insulin resistance: metabolic mechanisms and consequences in the heart. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012 , 32, 2068-76	9.4	141
191	Type 1 diabetic akita mouse hearts are insulin sensitive but manifest structurally abnormal mitochondria that remain coupled despite increased uncoupling protein 3. <i>Diabetes</i> , 2008 , 57, 2924-32	0.9	140
190	Critical role for thyroid hormone receptor beta2 in the regulation of paraventricular thyrotropin-releasing hormone neurons. <i>Journal of Clinical Investigation</i> , 2001 , 107, 1017-23	15.9	140
189	Modulation of glucose transporter 1 (GLUT1) expression levels alters mouse mammary tumor cell growth in vitro and in vivo. <i>PLoS ONE</i> , 2011 , 6, e23205	3.7	139
188	Tissue-specific remodeling of the mitochondrial proteome in type 1 diabetic akita mice. <i>Diabetes</i> , 2009 , 58, 1986-97	0.9	138
187	AMPK Is Essential to Balance Glycolysis and Mitochondrial Metabolism to Control T-ALL Cell Stress and Survival. <i>Cell Metabolism</i> , 2016 , 23, 649-62	24.6	138
186	Mitochondrial uncoupling: a key contributor to reduced cardiac efficiency in diabetes. <i>Physiology</i> , 2006 , 21, 250-8	9.8	134

185	NADPH oxidase-derived reactive oxygen species increases expression of monocyte chemotactic factor genes in cultured adipocytes. <i>Journal of Biological Chemistry</i> , 2012 , 287, 10379-10393	5.4	130
184	The transcriptional coactivator PGC-1alpha is essential for maximal and efficient cardiac mitochondrial fatty acid oxidation and lipid homeostasis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 295, H185-96	5.2	130
183	Mechanisms for increased myocardial fatty acid utilization following short-term high-fat feeding. <i>Cardiovascular Research</i> , 2009 , 82, 351-60	9.9	122
182	Preferential oxidation of triacylglyceride-derived fatty acids in heart is augmented by the nuclear receptor PPARalpha. <i>Circulation Research</i> , 2010 , 107, 233-41	15.7	121
181	PPAR β -induced cardiolipotoxicity in mice is ameliorated by PPAR β -deficiency despite increases in fatty acid oxidation. <i>Journal of Clinical Investigation</i> , 2010 , 120, 3443-54	15.9	121
180	Lipids, lysosomes, and autophagy. <i>Journal of Lipid Research</i> , 2016 , 57, 1619-35	6.3	119
179	Mitochondrial Reactive Oxygen Species in Lipotoxic Hearts Induce Post-Translational Modifications of AKAP121, DRP1, and OPA1 That Promote Mitochondrial Fission. <i>Circulation Research</i> , 2018 , 122, 58-73	15.7	118
178	Erythropoietin prevents the acute myocardial inflammatory response induced by ischemia/reperfusion via induction of AP-1. <i>Cardiovascular Research</i> , 2005 , 65, 719-27	9.9	116
177	Impaired transcriptional activity of Nrf2 in age-related myocardial oxidative stress is reversible by moderate exercise training. <i>PLoS ONE</i> , 2012 , 7, e45697	3.7	112
176	PGC-1 β -deficiency accelerates the transition to heart failure in pressure overload hypertrophy. <i>Circulation Research</i> , 2011 , 109, 783-93	15.7	110
175	Dietary iron restriction or iron chelation protects from diabetes and loss of beta-cell function in the obese (ob/ob lep $^{-/-}$) mouse. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 298, E1236-43	6	109
174	Targeting myocardial substrate metabolism in heart failure: potential for new therapies. <i>European Journal of Heart Failure</i> , 2012 , 14, 120-9	12.3	107
173	Inhibition of MCU forces extramitochondrial adaptations governing physiological and pathological stress responses in heart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 9129-34	11.5	102
172	Energy-preserving effects of IGF-1 antagonize starvation-induced cardiac autophagy. <i>Cardiovascular Research</i> , 2012 , 93, 320-9	9.9	102
171	Akt1 in the cardiovascular system: friend or foe?. <i>Journal of Clinical Investigation</i> , 2005 , 115, 2059-64	15.9	102
170	Dilated cardiomyopathy resulting from high-level myocardial expression of Cre-recombinase. <i>Journal of Cardiac Failure</i> , 2006 , 12, 392-8	3.3	99
169	OPA1 deficiency promotes secretion of FGF21 from muscle that prevents obesity and insulin resistance. <i>EMBO Journal</i> , 2017 , 36, 2126-2145	13	98
168	A conserved role for phosphatidylinositol 3-kinase but not Akt signaling in mitochondrial adaptations that accompany physiological cardiac hypertrophy. <i>Cell Metabolism</i> , 2007 , 6, 294-306	24.6	98

167	Loss of lipoprotein lipase-derived fatty acids leads to increased cardiac glucose metabolism and heart dysfunction. <i>Journal of Biological Chemistry</i> , 2006 , 281, 8716-23	5.4	97
166	Iron overload and diabetes risk: a shift from glucose to Fatty Acid oxidation and increased hepatic glucose production in a mouse model of hereditary hemochromatosis. <i>Diabetes</i> , 2011 , 60, 80-7	0.9	90
165	Targeted inhibition of calpain reduces myocardial hypertrophy and fibrosis in mouse models of type 1 diabetes. <i>Diabetes</i> , 2011 , 60, 2985-94	0.9	90
164	Basic Mechanisms of Diabetic Heart Disease. <i>Circulation Research</i> , 2020 , 126, 1501-1525	15.7	89
163	Insulin receptor substrate signaling suppresses neonatal autophagy in the heart. <i>Journal of Clinical Investigation</i> , 2013 , 123, 5319-33	15.9	89
162	Insulin and IGF-1 receptors regulate FoxO-mediated signaling in muscle proteostasis. <i>Journal of Clinical Investigation</i> , 2016 , 126, 3433-46	15.9	89
161	Endothelial nitric oxide synthase phosphorylation in treadmill-running mice: role of vascular signalling kinases. <i>Journal of Physiology</i> , 2009 , 587, 3911-20	3.9	88
160	Lipid-induced NOX2 activation inhibits autophagic flux by impairing lysosomal enzyme activity. <i>Journal of Lipid Research</i> , 2015 , 56, 546-561	6.3	84
159	Nuclear receptor SHP, a death receptor that targets mitochondria, induces apoptosis and inhibits tumor growth. <i>Molecular and Cellular Biology</i> , 2010 , 30, 1341-56	4.8	84
158	An APPL1-AMPK signaling axis mediates beneficial metabolic effects of adiponectin in the heart. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 299, E721-9	6	84
157	Mitochondrial Calpain-1 Disrupts ATP Synthase and Induces Superoxide Generation in Type 1 Diabetic Hearts: A Novel Mechanism Contributing to Diabetic Cardiomyopathy. <i>Diabetes</i> , 2016 , 65, 255-68	6.9	82
156	SWELL1 is a regulator of adipocyte size, insulin signalling and glucose homeostasis. <i>Nature Cell Biology</i> , 2017 , 19, 504-517	23.4	78
155	Iron-mediated inhibition of mitochondrial manganese uptake mediates mitochondrial dysfunction in a mouse model of hemochromatosis. <i>Molecular Medicine</i> , 2008 , 14, 98-108	6.2	77
154	Mechanisms of lipotoxicity in the cardiovascular system. <i>Current Hypertension Reports</i> , 2012 , 14, 517-31	4.7	76
153	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
152	Evidence for mitochondrial thioesterase 1 as a peroxisome proliferator-activated receptor-alpha-regulated gene in cardiac and skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004 , 287, E888-95	6	76
151	Mouse and human resistins impair glucose transport in primary mouse cardiomyocytes, and oligomerization is required for this biological action. <i>Journal of Biological Chemistry</i> , 2005 , 280, 31679-85	5.4	76
150	Lipotoxicity contributes to endothelial dysfunction: a focus on the contribution from ceramide. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2013 , 14, 59-68	10.5	75

149	Novel insight from transgenic mice into thyroid hormone resistance and the regulation of thyrotropin. <i>Journal of Clinical Investigation</i> , 1999 , 103, 271-9	15.9	72
148	Mammalian target of rapamycin is a critical regulator of cardiac hypertrophy in spontaneously hypertensive rats. <i>Hypertension</i> , 2009 , 54, 1321-7	8.5	71
147	Mitochondrial fusion and function in Charcot-Marie-Tooth type 2A patient fibroblasts with mitofusin 2 mutations. <i>Experimental Neurology</i> , 2008 , 211, 115-27	5.7	71
146	Ceramide-Initiated Protein Phosphatase 2A Activation Contributes to Arterial Dysfunction In Vivo. <i>Diabetes</i> , 2015 , 64, 3914-26	0.9	69
145	Cardiac Energy Metabolism in Heart Failure. <i>Circulation Research</i> , 2021 , 128, 1487-1513	15.7	68
144	Kruppel-like factor 4 is critical for transcriptional control of cardiac mitochondrial homeostasis. <i>Journal of Clinical Investigation</i> , 2015 , 125, 3461-76	15.9	67
143	Inhibiting Insulin-Mediated α -Adrenergic Receptor Activation Prevents Diabetes-Associated Cardiac Dysfunction. <i>Circulation</i> , 2017 , 135, 73-88	16.7	66
142	Evidence of Glycolysis Up-Regulation and Pyruvate Mitochondrial Oxidation Mismatch During Mechanical Unloading of the Failing Human Heart: Implications for Cardiac Reloading and Conditioning. <i>JACC Basic To Translational Science</i> , 2016 , 1, 432-444	8.7	65
141	Nrf2 deficiency prevents reductive stress-induced hypertrophic cardiomyopathy. <i>Cardiovascular Research</i> , 2013 , 100, 63-73	9.9	63
140	Central leptin signaling is required to normalize myocardial fatty acid oxidation rates in caloric-restricted ob/ob mice. <i>Diabetes</i> , 2011 , 60, 1424-34	0.9	63
139	Enhanced cardiac Akt/protein kinase B signaling contributes to pathological cardiac hypertrophy in part by impairing mitochondrial function via transcriptional repression of mitochondrion-targeted nuclear genes. <i>Molecular and Cellular Biology</i> , 2015 , 35, 831-46	4.8	61
138	Insulin inhibits cardiac contractility by inducing a Gi-biased α -adrenergic signaling in hearts. <i>Diabetes</i> , 2014 , 63, 2676-89	0.9	60
137	Impaired insulin signaling accelerates cardiac mitochondrial dysfunction after myocardial infarction. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 46, 910-8	5.8	60
136	Myocardial insulin resistance and cardiac complications of diabetes. <i>Current Drug Targets Immune, Endocrine and Metabolic Disorders</i> , 2005 , 5, 219-26		60
135	Insulin receptor substrates are essential for the bioenergetic and hypertrophic response of the heart to exercise training. <i>Molecular and Cellular Biology</i> , 2014 , 34, 3450-60	4.8	59
134	PGC-1 proteins and heart failure. <i>Trends in Cardiovascular Medicine</i> , 2012 , 22, 98-105	6.9	59
133	Differential glucose requirement in skin homeostasis and injury identifies a therapeutic target for psoriasis. <i>Nature Medicine</i> , 2018 , 24, 617-627	50.5	58
132	Inducible overexpression of GLUT1 prevents mitochondrial dysfunction and attenuates structural remodeling in pressure overload but does not prevent left ventricular dysfunction. <i>Journal of the American Heart Association</i> , 2013 , 2, e000301	6	58

131	DNA-PK Promotes the Mitochondrial, Metabolic, and Physical Decline that Occurs During Aging. <i>Cell Metabolism</i> , 2017 , 25, 1135-1146.e7	24.6	57
130	Mechanistic target of rapamycin (Mtor) is essential for murine embryonic heart development and growth. <i>PLoS ONE</i> , 2013 , 8, e54221	3.7	57
129	Myeloid -Deficient Murine Model Revealed Macrophage Activation and Metabolic Phenotype Are Fueled by GLUT1. <i>Journal of Immunology</i> , 2019 , 202, 1265-1286	5.3	55
128	PAS kinase is required for normal cellular energy balance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 15466-71	11.5	53
127	Type 2 iodothyronin deiodinase transgene expression in the mouse heart causes cardiac-specific thyrotoxicosis. <i>Endocrinology</i> , 2001 , 142, 13-20	4.8	53
126	Cardiac PI3K-Akt impairs insulin-stimulated glucose uptake independent of mTORC1 and GLUT4 translocation. <i>Molecular Endocrinology</i> , 2013 , 27, 172-84		52
125	Early mitochondrial adaptations in skeletal muscle to diet-induced obesity are strain dependent and determine oxidative stress and energy expenditure but not insulin sensitivity. <i>Endocrinology</i> , 2012 , 153, 2677-88	4.8	52
124	Talin1 has unique expression versus talin 2 in the heart and modifies the hypertrophic response to pressure overload. <i>Journal of Biological Chemistry</i> , 2013 , 288, 4252-64	5.4	51
123	Deletion of IGF-1 Receptors in Cardiomyocytes Attenuates Cardiac Aging in Male Mice. <i>Endocrinology</i> , 2016 , 157, 336-45	4.8	50
122	MtAge-Erois 1 is critical for the transcriptional function of PPARgamma coactivator 1. <i>Cell Metabolism</i> , 2007 , 5, 129-42	24.6	49
121	Insulin signaling regulates mitochondrial function in pancreatic beta-cells. <i>PLoS ONE</i> , 2009 , 4, e7983	3.7	48
120	Heart-specific ablation of Prkar1a causes failure of heart development and myxomatogenesis. <i>Circulation</i> , 2008 , 117, 1414-22	16.7	47
119	Genetic loss of insulin receptors worsens cardiac efficiency in diabetes. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 52, 1019-26	5.8	45
118	Insulin signaling in heart muscle: lessons from genetically engineered mouse models. <i>Current Hypertension Reports</i> , 2004 , 6, 416-23	4.7	45
117	UCP3 regulates cardiac efficiency and mitochondrial coupling in high fat-fed mice but not in leptin-deficient mice. <i>Diabetes</i> , 2012 , 61, 3260-9	0.9	42
116	Podocyte-specific GLUT4-deficient mice have fewer and larger podocytes and are protected from diabetic nephropathy. <i>Diabetes</i> , 2014 , 63, 701-14	0.9	41
115	Cardiac hypertrophy caused by peroxisome proliferator- activated receptor-gamma agonist treatment occurs independently of changes in myocardial insulin signaling. <i>Endocrinology</i> , 2007 , 148, 6047-53	4.8	41
114	Modulating GLUT1 expression in retinal pigment epithelium decreases glucose levels in the retina: impact on photoreceptors and Müller glial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2019 , 316, C121-C133	5.4	41

113	Cerebellar neurons possess a vesicular compartment structurally and functionally similar to Glut4-storage vesicles from peripheral insulin-sensitive tissues. <i>Journal of Neuroscience</i> , 2009 , 29, 5193-201	6.6	40
112	Mitochondrial pyruvate carriers are required for myocardial stress adaptation. <i>Nature Metabolism</i> , 2020 , 2, 1248-1264	14.6	40
111	Role of the GLUT1 Glucose Transporter in Postnatal CNS Angiogenesis and Blood-Brain Barrier Integrity. <i>Circulation Research</i> , 2020 , 127, 466-482	15.7	38
110	Cardiac dysfunction caused by myocardium-specific expression of a mutant thyroid hormone receptor. <i>Circulation Research</i> , 2000 , 86, 700-6	15.7	38
109	Receptor activator of nuclear factor- κ B ligand is a novel inducer of myocardial inflammation. <i>Cardiovascular Research</i> , 2012 , 94, 105-14	9.9	37
108	Dominant inhibition of thyroid hormone action selectively in the pituitary of thyroid hormone receptor-beta null mice abolishes the regulation of thyrotropin by thyroid hormone. <i>Molecular Endocrinology</i> , 2003 , 17, 1767-76		37
107	Maintaining PGC-1 α expression following pressure overload-induced cardiac hypertrophy preserves angiogenesis but not contractile or mitochondrial function. <i>FASEB Journal</i> , 2014 , 28, 3691-702	0.9	36
106	CRYAB and HSPB2 deficiency alters cardiac metabolism and paradoxically confers protection against myocardial ischemia in aging mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H3201-9	5.2	36
105	Gender-dependent attenuation of cardiac potassium currents in type 2 diabetic db/db mice. <i>Journal of Physiology</i> , 2004 , 555, 345-54	3.9	36
104	The glucose transporter GLUT1 is required for ErbB2-induced mammary tumorigenesis. <i>Breast Cancer Research</i> , 2016 , 18, 131	8.3	36
103	Glucose metabolism induced by Bmp signaling is essential for murine skeletal development. <i>Nature Communications</i> , 2018 , 9, 4831	17.4	36
102	p63 and SOX2 Dictate Glucose Reliance and Metabolic Vulnerabilities in Squamous Cell Carcinomas. <i>Cell Reports</i> , 2019 , 28, 1860-1878.e9	10.6	35
101	Genetic disruption of the cardiomyocyte circadian clock differentially influences insulin-mediated processes in the heart. <i>Journal of Molecular and Cellular Cardiology</i> , 2017 , 110, 80-95	5.8	34
100	Interaction of myocardial insulin receptor and IGF receptor signaling in exercise-induced cardiac hypertrophy. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 47, 664-75	5.8	34
99	Loss of MCU prevents mitochondrial fusion in G-S phase and blocks cell cycle progression and proliferation. <i>Science Signaling</i> , 2019 , 12,	8.8	33
98	Aberrant water homeostasis detected by stable isotope analysis. <i>PLoS ONE</i> , 2010 , 5, e11699	3.7	33
97	GLUT1 deficiency in cardiomyocytes does not accelerate the transition from compensated hypertrophy to heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 72, 95-103	5.8	31
96	Captopril normalizes insulin signaling and insulin-regulated substrate metabolism in obese (ob/ob) mouse hearts. <i>Endocrinology</i> , 2008 , 149, 4043-50	4.8	31

95	Nox4 reprograms cardiac substrate metabolism via protein O-GlcNAcylation to enhance stress adaptation. <i>JCI Insight</i> , 2017 , 2,	9.9	29
94	Activation of IGF-1 receptors and Akt signaling by systemic hyperinsulinemia contributes to cardiac hypertrophy but does not regulate cardiac autophagy in obese diabetic mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2017 , 113, 39-50	5.8	28
93	Insulin suppresses ischemic preconditioning-mediated cardioprotection through Akt-dependent mechanisms. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 64, 20-9	5.8	28
92	Insulin-dependent metabolic and inotropic responses in the heart are modulated by hydrogen peroxide from NADPH-oxidase isoforms NOX2 and NOX4. <i>Free Radical Biology and Medicine</i> , 2017 , 113, 16-25	7.8	28
91	Deletion of GLUT1 and GLUT3 Reveals Multiple Roles for Glucose Metabolism in Platelet and Megakaryocyte Function. <i>Cell Reports</i> , 2017 , 20, 881-894	10.6	28
90	Regulation of fatty acid metabolism by mTOR in adult murine hearts occurs independently of changes in PGC-1 α . <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 305, H41-51	5.2	28
89	Glucose transporter 4-deficient hearts develop maladaptive hypertrophy in response to physiological or pathological stresses. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 313, H1098-H1108	5.2	27
88	Exercise training improves vascular mitochondrial function. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 310, H821-9	5.2	27
87	The absence of insulin signaling in the heart induces changes in potassium channel expression and ventricular repolarization. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 306, H747-54	5.2	26
86	Acute inhibition of fatty acid import inhibits GLUT4 transcription in adipose tissue, but not skeletal or cardiac muscle tissue, partly through liver X receptor (LXR) signaling. <i>Diabetes</i> , 2010 , 59, 800-7	0.9	26
85	Insulin regulation of myocardial autophagy. <i>Circulation Journal</i> , 2014 , 78, 2569-76	2.9	25
84	IGF-1 receptor deficiency in thyrocytes impairs thyroid hormone secretion and completely inhibits TSH-stimulated goiter. <i>FASEB Journal</i> , 2013 , 27, 4899-908	0.9	25
83	Oxidative phosphorylation flexibility in the liver of mice resistant to high-fat diet-induced hepatic steatosis. <i>Diabetes</i> , 2011 , 60, 2216-24	0.9	25
82	Regulation of insulin-responsive aminopeptidase expression and targeting in the insulin-responsive vesicle compartment of glucose transporter isoform 4-deficient cardiomyocytes. <i>Molecular Endocrinology</i> , 2004 , 18, 2491-501		25
81	Exposure to Static Magnetic and Electric Fields Treats Type 2 Diabetes. <i>Cell Metabolism</i> , 2020 , 32, 561-574. 74.67	24.67	25
80	Airway epithelial regeneration requires autophagy and glucose metabolism. <i>Cell Death and Disease</i> , 2019 , 10, 875	9.8	25
79	Cytosolic, but not mitochondrial, oxidative stress is a likely contributor to cardiac hypertrophy resulting from cardiac specific GLUT4 deletion in mice. <i>FEBS Journal</i> , 2012 , 279, 599-611	5.7	23
78	Deletion of the NADPH-cytochrome P450 reductase gene in cardiomyocytes does not protect mice against doxorubicin-mediated acute cardiac toxicity. <i>Drug Metabolism and Disposition</i> , 2008 , 36, 1722-8	4	23

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