

E Dale Abel

List of Publications by Year in descending order

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244
papers

29,936
citations

3721

89
h-index

5364

164
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267
all docs

267
docs citations

267
times ranked

33914
citing authors

#	ARTICLE	IF	CITATIONS
1	Diabetic Cardiomyopathy Revisited. <i>Circulation</i> , 2007, 115, 3213-3223.	1.6	1,338
2	Adipose-selective targeting of the GLUT4 gene impairs insulin action in muscle and liver. <i>Nature</i> , 2001, 409, 729-733.	13.7	1,058
3	Phosphoenolpyruvate Is a Metabolic Checkpoint of Anti-tumor T Cell Responses. <i>Cell</i> , 2015, 162, 1217-1228.	13.5	1,044
4	The Glucose Transporter Glut1 Is Selectively Essential for CD4 ⁺ T Cell Activation and Effector Function. <i>Cell Metabolism</i> , 2014, 20, 61-72.	7.2	876
5	PGC-1 α Deficiency Causes Multi-System Energy Metabolic Derangements: Muscle Dysfunction, Abnormal Weight Control and Hepatic Steatosis. <i>PLoS Biology</i> , 2005, 3, e101.	2.6	817
6	Cardiac Metabolism in Heart Failure. <i>Circulation Research</i> , 2013, 113, 709-724.	2.0	814
7	Molecular mechanisms of diabetic cardiomyopathy. <i>Diabetologia</i> , 2014, 57, 660-671.	2.9	657
8	Cardiac Remodeling in Obesity. <i>Physiological Reviews</i> , 2008, 88, 389-419.	13.1	608
9	Diabetic cardiomyopathy, causes and effects. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2010, 11, 31-39.	2.6	587
10	Mitochondrial Energetics in the Heart in Obesity-Related Diabetes. <i>Diabetes</i> , 2007, 56, 2457-2466.	0.3	524
11	Nicotinamide riboside is uniquely and orally bioavailable in mice and humans. <i>Nature Communications</i> , 2016, 7, 12948.	5.8	498
12	GLUT1 reductions exacerbate Alzheimer's disease vasculo-neuronal dysfunction and degeneration. <i>Nature Neuroscience</i> , 2015, 18, 521-530.	7.1	496
13	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, 5341-5349.	1.4	461
14	Reduced Mitochondrial Oxidative Capacity and Increased Mitochondrial Uncoupling Impair Myocardial Energetics in Obesity. <i>Circulation</i> , 2005, 112, 2686-2695.	1.6	460
15	Cardiac Energy Metabolism in Heart Failure. <i>Circulation Research</i> , 2021, 128, 1487-1513.	2.0	433
16	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, 3626-3636.	0.4	425
17	Heart Failure in Type 2 Diabetes Mellitus. <i>Circulation Research</i> , 2019, 124, 121-141.	2.0	411
18	Impaired Cardiac Efficiency and Increased Fatty Acid Oxidation in Insulin-Resistant ob/ob Mouse Hearts. <i>Diabetes</i> , 2004, 53, 2366-2374.	0.3	395

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19	Ceramide is a cardiotoxin in lipotoxic cardiomyopathy. <i>Journal of Lipid Research</i> , 2008, 49, 2101-2112.	2.0	334
20	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-H1047.	1.5	310
21	Cardiac hypertrophy with preserved contractile function after selective deletion of GLUT4 from the heart. <i>Journal of Clinical Investigation</i> , 1999, 104, 1703-1714.	3.9	310
22	Insulin signaling coordinately regulates cardiac size, metabolism, and contractile protein isoform expression. <i>Journal of Clinical Investigation</i> , 2002, 109, 629-639.	3.9	297
23	Insulin Signaling and Heart Failure. <i>Circulation Research</i> , 2016, 118, 1151-1169.	2.0	292
24	Basic Mechanisms of Diabetic Heart Disease. <i>Circulation Research</i> , 2020, 126, 1501-1525.	2.0	279
25	Contribution of Impaired Myocardial Insulin Signaling to Mitochondrial Dysfunction and Oxidative Stress in the Heart. <i>Circulation</i> , 2009, 119, 1272-1283.	1.6	277
26	Lipotoxicity in the heart. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 311-319.	1.2	259
27	Ablation of PGC-1 β Results in Defective Mitochondrial Activity, Thermogenesis, Hepatic Function, and Cardiac Performance. <i>PLoS Biology</i> , 2006, 4, e369.	2.6	249
28	Rodent models of diabetic cardiomyopathy. <i>DMM Disease Models and Mechanisms</i> , 2009, 2, 454-466.	1.2	231
29	Inefficient Reprogramming of Fibroblasts into Cardiomyocytes Using Gata4, Mef2c, and Tbx5. <i>Circulation Research</i> , 2012, 111, 50-55.	2.0	227
30	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.	3.9	227
31	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.	2.0	225
32	Mitochondrial adaptations to physiological vs. pathological cardiac hypertrophy. <i>Cardiovascular Research</i> , 2011, 90, 234-242.	1.8	220
33	Mitochondria in the diabetic heart. <i>Cardiovascular Research</i> , 2010, 88, 229-240.	1.8	213
34	Assessing Cardiac Metabolism. <i>Circulation Research</i> , 2016, 118, 1659-1701.	2.0	211
35	The Role of mPer2 Clock Gene in Glucocorticoid and Feeding Rhythms. <i>Endocrinology</i> , 2009, 150, 2153-2160.	1.4	210
36	Recipes for Creating Animal Models of Diabetic Cardiovascular Disease. <i>Circulation Research</i> , 2007, 100, 1415-1427.	2.0	206

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37	Responses of GLUT4-Deficient Hearts to Ischemia Underscore the Importance of Glycolysis. <i>Circulation</i> , 2001, 103, 2961-2966.	1.6	197
38	Akt Signaling Mediates Postnatal Heart Growth in Response to Insulin and Nutritional Status. <i>Journal of Biological Chemistry</i> , 2002, 277, 37670-37677.	1.6	197
39	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-H1269.	1.5	197
40	Insulin Stimulates Mitochondrial Fusion and Function in Cardiomyocytes via the Akt-mTOR-NF κ B-Opa-1 Signaling Pathway. <i>Diabetes</i> , 2014, 63, 75-88.	0.3	195
41	AMPK Is Essential to Balance Glycolysis and Mitochondrial Metabolism to Control T-ALL Cell Stress and Survival. <i>Cell Metabolism</i> , 2016, 23, 649-662.	7.2	195
42	Insulin signaling coordinately regulates cardiac size, metabolism, and contractile protein isoform expression. <i>Journal of Clinical Investigation</i> , 2002, 109, 629-639.	3.9	194
43	Ceramide Mediates Vascular Dysfunction in Diet-Induced Obesity by PP2A-Mediated Dephosphorylation of the eNOS-Akt Complex. <i>Diabetes</i> , 2012, 61, 1848-1859.	0.3	193
44	Excessive cardiac insulin signaling exacerbates systolic dysfunction induced by pressure overload in rodents. <i>Journal of Clinical Investigation</i> , 2010, 120, 1506-1514.	3.9	192
45	Glucose transport in the heart. <i>Frontiers in Bioscience - Landmark</i> , 2004, 9, 201.	3.0	188
46	The intrinsic circadian clock within the cardiomyocyte. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 289, H1530-H1541.	1.5	179
47	Divergent roles for thyroid hormone receptor β 2 isoforms in the endocrine axis and auditory system. <i>Journal of Clinical Investigation</i> , 1999, 104, 291-300.	3.9	179
48	Insulin-Like Growth Factor I Receptor Signaling Is Required for Exercise-Induced Cardiac Hypertrophy. <i>Molecular Endocrinology</i> , 2008, 22, 2531-2543.	3.7	178
49	Tissue-Specific Remodeling of the Mitochondrial Proteome in Type 1 Diabetic Akita Mice. <i>Diabetes</i> , 2009, 58, 1986-1997.	0.3	175
50	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, 1085-1094.	2.0	173
51	Insulin Resistance: Metabolic Mechanisms and Consequences in the Heart. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 2068-2076.	1.1	171
52	Critical role for thyroid hormone receptor β 2 in the regulation of paraventricular thyrotropin-releasing hormone neurons. <i>Journal of Clinical Investigation</i> , 2001, 107, 1017-1023.	3.9	170
53	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, 2924-2932.	0.3	166
54	Molecular mechanisms for myocardial mitochondrial dysfunction in the metabolic syndrome. <i>Clinical Science</i> , 2008, 114, 195-210.	1.8	165

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55	Lipids, lysosomes, and autophagy. <i>Journal of Lipid Research</i> , 2016, 57, 1619-1635.	2.0	163
56	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.	1.1	159
57	<scp>OPA</scp> 1 deficiency promotes secretion of <scp>FGF</scp> 21 from muscle that prevents obesity and insulin resistance. <i>EMBO Journal</i> , 2017, 36, 2126-2145.	3.5	157
58	Mitochondrial Uncoupling: A Key Contributor to Reduced Cardiac Efficiency in Diabetes. <i>Physiology</i> , 2006, 21, 250-258.	1.6	153
59	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.	1.6	152
60	The transcriptional coactivator PGC-1 α 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-H196.	1.5	148
61	Dietary iron restriction or iron chelation protects from diabetes and loss of β -cell function in the obese (<i>ob/ob lep</i> ^{α^{α}}) mouse. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 298, E1236-E1243.	1.8	142
62	Preferential Oxidation of Triacylglyceride-Derived Fatty Acids in Heart Is Augmented by the Nuclear Receptor PPAR α . <i>Circulation Research</i> , 2010, 107, 233-241.	2.0	141
63	Mechanisms for increased myocardial fatty acid utilization following short-term high-fat feeding. <i>Cardiovascular Research</i> , 2009, 82, 351-360.	1.8	140
64	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, 9129-9134.	3.3	140
65	PPAR β -induced cardioprototoxicity in mice is ameliorated by PPAR α deficiency despite increases in fatty acid oxidation. <i>Journal of Clinical Investigation</i> , 2010, 120, 3443-3454.	3.9	137
66	PGC-1 β Deficiency Accelerates the Transition to Heart Failure in Pressure Overload Hypertrophy. <i>Circulation Research</i> , 2011, 109, 783-793.	2.0	136
67	Impaired Transcriptional Activity of Nrf2 in Age-Related Myocardial Oxidative Stress Is Reversible by Moderate Exercise Training. <i>PLoS ONE</i> , 2012, 7, e45697.	1.1	136
68	Insulin and IGF-1 receptors regulate FoxO-mediated signaling in muscle proteostasis. <i>Journal of Clinical Investigation</i> , 2016, 126, 3433-3446.	3.9	132
69	Targeting myocardial substrate metabolism in heart failure: potential for new therapies. <i>European Journal of Heart Failure</i> , 2012, 14, 120-129.	2.9	130
70	Erythropoietin prevents the acute myocardial inflammatory response induced by ischemia/reperfusion via induction of AP-1. <i>Cardiovascular Research</i> , 2005, 65, 719-727.	1.8	128
71	Energy-preserving effects of IGF-1 antagonize starvation-induced cardiac autophagy. <i>Cardiovascular Research</i> , 2012, 93, 320-329.	1.8	124
72	Akt1 in the cardiovascular system: friend or foe?. <i>Journal of Clinical Investigation</i> , 2005, 115, 2059-2064.	3.9	122

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73	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.	7.2	121
74	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, 80-87.	0.3	120
75	Differential glucose requirement in skin homeostasis and injury identifies a therapeutic target for psoriasis. <i>Nature Medicine</i> , 2018, 24, 617-627.	15.2	117
76	Dilated Cardiomyopathy Resulting From High-Level Myocardial Expression of Cre-Recombinase. <i>Journal of Cardiac Failure</i> , 2006, 12, 392-398.	0.7	112
77	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, 255-268.	0.3	112
78	Loss of Lipoprotein Lipase-derived Fatty Acids Leads to Increased Cardiac Glucose Metabolism and Heart Dysfunction. <i>Journal of Biological Chemistry</i> , 2006, 281, 8716-8723.	1.6	111
79	SWELL1 is a regulator of adipocyte size, insulin signalling and glucose homeostasis. <i>Nature Cell Biology</i> , 2017, 19, 504-517.	4.6	111
80	Insulin receptor substrate signaling suppresses neonatal autophagy in the heart. <i>Journal of Clinical Investigation</i> , 2013, 123, 5319-5333.	3.9	106
81	Evidence of Glycolysis Up-Regulation and Pyruvate Mitochondrial Oxidation Mismatch During Mechanical Unloading of the Failing Human Heart. <i>JACC Basic To Translational Science</i> , 2016, 1, 432-444.	1.9	105
82	Targeted Inhibition of Calpain Reduces Myocardial Hypertrophy and Fibrosis in Mouse Models of Type 1 Diabetes. <i>Diabetes</i> , 2011, 60, 2985-2994.	0.3	104
83	Myeloid <i>Slc2a1</i> -Deficient Murine Model Revealed Macrophage Activation and Metabolic Phenotype Are Fueled by GLUT1. <i>Journal of Immunology</i> , 2019, 202, 1265-1286.	0.4	104
84	Kruppel-like factor 4 is critical for transcriptional control of cardiac mitochondrial homeostasis. <i>Journal of Clinical Investigation</i> , 2015, 125, 3461-3476.	3.9	104
85	Role of the GLUT1 Glucose Transporter in Postnatal CNS Angiogenesis and Blood-Brain Barrier Integrity. <i>Circulation Research</i> , 2020, 127, 466-482.	2.0	103
86	Endothelial nitric oxide synthase phosphorylation in treadmill-running mice: role of vascular signalling kinases. <i>Journal of Physiology</i> , 2009, 587, 3911-3920.	1.3	101
87	Inhibiting Insulin-Mediated β_2 -Adrenergic Receptor Activation Prevents Diabetes-Associated Cardiac Dysfunction. <i>Circulation</i> , 2017, 135, 73-88.	1.6	98
88	Lipid-induced NOX2 activation inhibits autophagic flux by impairing lysosomal enzyme activity. <i>Journal of Lipid Research</i> , 2015, 56, 546-561.	2.0	94
89	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, 31679-31685.	1.6	93
90	Ceramide-Initiated Protein Phosphatase 2A Activation Contributes to Arterial Dysfunction In Vivo. <i>Diabetes</i> , 2015, 64, 3914-3926.	0.3	92

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91	DNA-PK Promotes the Mitochondrial, Metabolic, and Physical Decline that Occurs During Aging. <i>Cell Metabolism</i> , 2017, 25, 1135-1146.e7.	7.2	92
92	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-E729.	1.8	91
93	Mechanisms of Lipotoxicity in the Cardiovascular System. <i>Current Hypertension Reports</i> , 2012, 14, 517-531.	1.5	91
94	Iron-Mediated Inhibition of Mitochondrial Manganese Uptake Mediates Mitochondrial Dysfunction in a Mouse Model of Hemochromatosis. <i>Molecular Medicine</i> , 2008, 14, 98-108.	1.9	89
95	Mitochondrial fusion and function in Charcot-Marie-Tooth type 2A patient fibroblasts with mitofusin 2 mutations. <i>Experimental Neurology</i> , 2008, 211, 115-127.	2.0	88
96	Nuclear Receptor SHP, a Death Receptor That Targets Mitochondria, Induces Apoptosis and Inhibits Tumor Growth. <i>Molecular and Cellular Biology</i> , 2010, 30, 1341-1356.	1.1	87
97	Lipotoxicity contributes to endothelial dysfunction: A focus on the contribution from ceramide. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2013, 14, 59-68.	2.6	87
98	Mitochondrial pyruvate carriers are required for myocardial stress adaptation. <i>Nature Metabolism</i> , 2020, 2, 1248-1264.	5.1	87
99	Nrf2 deficiency prevents reductive stress-induced hypertrophic cardiomyopathy. <i>Cardiovascular Research</i> , 2013, 100, 63-73.	1.8	86
100	PGC-1 Proteins and Heart Failure. <i>Trends in Cardiovascular Medicine</i> , 2012, 22, 98-105.	2.3	85
101	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, 3450-3460.	1.1	85
102	A Universal Approach to Analyzing Transmission Electron Microscopy with ImageJ. <i>Cells</i> , 2021, 10, 2177.	1.8	85
103	Novel insight from transgenic mice into thyroid hormone resistance and the regulation of thyrotropin. <i>Journal of Clinical Investigation</i> , 1999, 103, 271-279.	3.9	85
104	Evidence for mitochondrial thioesterase 1 as a peroxisome proliferator-activated receptor- α -regulated gene in cardiac and skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004, 287, E888-E895.	1.8	84
105	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, 831-846.	1.1	84
106	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-H2497.	1.5	83
107	Mammalian Target of Rapamycin Is a Critical Regulator of Cardiac Hypertrophy in Spontaneously Hypertensive Rats. <i>Hypertension</i> , 2009, 54, 1321-1327.	1.3	82
108	Glucose metabolism induced by Bmp signaling is essential for murine skeletal development. <i>Nature Communications</i> , 2018, 9, 4831.	5.8	82

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109	Central Leptin Signaling Is Required to Normalize Myocardial Fatty Acid Oxidation Rates in Caloric-Restricted <i>ob/ob</i> Mice. <i>Diabetes</i> , 2011, 60, 1424-1434.	0.3	81
110	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.	1.6	78
111	Insulin Inhibits Cardiac Contractility by Inducing a Gi-Biased β_2 -Adrenergic Signaling in Hearts. <i>Diabetes</i> , 2014, 63, 2676-2689.	0.3	77
112	Deletion of IGF-1 Receptors in Cardiomyocytes Attenuates Cardiac Aging in Male Mice. <i>Endocrinology</i> , 2016, 157, 336-345.	1.4	75
113	Mechanistic Target of Rapamycin (Mtor) Is Essential for Murine Embryonic Heart Development and Growth. <i>PLoS ONE</i> , 2013, 8, e54221.	1.1	74
114	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, 4252-4264.	1.6	73
115	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.	2.1	73
116	Therapeutic potential of targeting oxidative stress in diabetic cardiomyopathy. <i>Free Radical Biology and Medicine</i> , 2021, 169, 317-342.	1.3	73
117	Impaired insulin signaling accelerates cardiac mitochondrial dysfunction after myocardial infarction. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 46, 910-918.	0.9	71
118	The glucose transporter GLUT3 controls T helper 17 cell responses through glycolytic-epigenetic reprogramming. <i>Cell Metabolism</i> , 2022, 34, 516-532.e11.	7.2	70
119	Myocardial Insulin Resistance and Cardiac Complications of Diabetes. <i>Current Drug Targets Immune, Endocrine and Metabolic Disorders</i> , 2005, 5, 219-226.	1.8	69
120	p63 and SOX2 Dictate Glucose Reliance and Metabolic Vulnerabilities in Squamous Cell Carcinomas. <i>Cell Reports</i> , 2019, 28, 1860-1878.e9.	2.9	68
121	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, 15466-15471.	3.3	65
122	GLUT1 Expression in Tumor-Associated Neutrophils Promotes Lung Cancer Growth and Resistance to Radiotherapy. <i>Cancer Research</i> , 2021, 81, 2345-2357.	0.4	65
123	Cardiac PI3K-Akt Impairs Insulin-Stimulated Glucose Uptake Independent of mTORC1 and GLUT4 Translocation. <i>Molecular Endocrinology</i> , 2013, 27, 172-184.	3.7	61
124	Type 2 Iodothyronine Deiodinase Transgene Expression in the Mouse Heart Causes Cardiac-Specific Thyrotoxicosis. <i>Endocrinology</i> , 2001, 142, 13-20.	1.4	59
125	Deletion of GLUT1 and GLUT3 Reveals Multiple Roles for Glucose Metabolism in Platelet and Megakaryocyte Function. <i>Cell Reports</i> , 2017, 20, 881-894.	2.9	57
126	Insulin Signaling Regulates Mitochondrial Function in Pancreatic β -Cells. <i>PLoS ONE</i> , 2009, 4, e7983.	1.1	57

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127	MÃ©nage-Ã-Trois 1 Is Critical for the Transcriptional Function of PPAR β Coactivator 1. Cell Metabolism, 2007, 5, 129-142.	7.2	56
128	Genetic loss of insulin receptors worsens cardiac efficiency in diabetes. Journal of Molecular and Cellular Cardiology, 2012, 52, 1019-1026.	0.9	56
129	Early Mitochondrial Adaptations in Skeletal Muscle to Diet-Induced Obesity Are Strain Dependent and Determine Oxidative Stress and Energy Expenditure But Not Insulin Sensitivity. Endocrinology, 2012, 153, 2677-2688.	1.4	55
130	Exposure to Static Magnetic and Electric Fields Treats Type 2 Diabetes. Cell Metabolism, 2020, 32, 561-574.e7.	7.2	55
131	Both aerobic glycolysis and mitochondrial respiration are required for osteoclast differentiation. FASEB Journal, 2020, 34, 11058-11067.	0.2	55
132	Loss of MCU prevents mitochondrial fusion in G ₁ phase and blocks cell cycle progression and proliferation. Science Signaling, 2019, 12, .	1.6	54
133	The Role of Nonglycolytic Glucose Metabolism in Myocardial Recovery Upon Mechanical Unloading and Circulatory Support in Chronic Heart Failure. Circulation, 2020, 142, 259-274.	1.6	53
134	Podocyte-Specific GLUT4-Deficient Mice Have Fewer and Larger Podocytes and Are Protected From Diabetic Nephropathy. Diabetes, 2014, 63, 701-714.	0.3	52
135	Genetic disruption of the cardiomyocyte circadian clock differentially influences insulin-mediated processes in the heart. Journal of Molecular and Cellular Cardiology, 2017, 110, 80-95.	0.9	52
136	The glucose transporter GLUT1 is required for ErbB2-induced mammary tumorigenesis. Breast Cancer Research, 2016, 18, 131.	2.2	50
137	Insulin signaling in heart muscle: Lessons from genetically engineered mouse models. Current Hypertension Reports, 2004, 6, 416-423.	1.5	49
138	Heart-Specific Ablation of <i>Prkar1a</i> Causes Failure of Heart Development and Myxomatogenesis. Circulation, 2008, 117, 1414-1422.	1.6	49
139	Receptor activator of nuclear factor- κ B ligand is a novel inducer of myocardial inflammation. Cardiovascular Research, 2012, 94, 105-114.	1.8	48
140	Airway epithelial regeneration requires autophagy and glucose metabolism. Cell Death and Disease, 2019, 10, 875.	2.7	48
141	UCP3 Regulates Cardiac Efficiency and Mitochondrial Coupling in High Fat-Fed Mice but Not in Leptin-Deficient Mice. Diabetes, 2012, 61, 3260-3269.	0.3	46
142	OPA1 deletion in brown adipose tissue improves thermoregulation and systemic metabolism via FGF21. ELife, 2021, 10, .	2.8	45
143	Dominant Inhibition of Thyroid Hormone Action Selectively in the Pituitary of Thyroid Hormone Receptor- β Null Mice Abolishes the Regulation of Thyrotropin by Thyroid Hormone. Molecular Endocrinology, 2003, 17, 1767-1776.	3.7	44
144	Maintaining PGC- α expression following pressure overload-induced cardiac hypertrophy preserves angiogenesis but not contractile or mitochondrial function. FASEB Journal, 2014, 28, 3691-3702.	0.2	44

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145	Cardiac Hypertrophy Caused by Peroxisome Proliferator- Activated Receptor- β Agonist Treatment Occurs Independently of Changes in Myocardial Insulin Signaling. <i>Endocrinology</i> , 2007, 148, 6047-6053.	1.4	42
146	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, 5193-5201.	1.7	42
147	Interaction of myocardial insulin receptor and IGF receptor signaling in exercise-induced cardiac hypertrophy. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 47, 664-675.	0.9	42
148	Nox4 reprograms cardiac substrate metabolism via protein O-GlcNAcylation to enhance stress adaptation. <i>JCI Insight</i> , 2017, 2, .	2.3	42
149	Cardiac Dysfunction Caused by Myocardium-Specific Expression of a Mutant Thyroid Hormone Receptor. <i>Circulation Research</i> , 2000, 86, 700-706.	2.0	41
150	Increased Glucose Availability Attenuates Myocardial Ketone Body Utilization. <i>Journal of the American Heart Association</i> , 2020, 9, e013039.	1.6	41
151	Maintaining Myocardial Glucose Utilization in Diabetic Cardiomyopathy Accelerates Mitochondrial Dysfunction. <i>Diabetes</i> , 2020, 69, 2094-2111.	0.3	41
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