Juleen Rae Zierath

List of Publications by Year
in descending order

187	19,810	13068 68	11899 134
papers	citations	h-index	g-index

198	198	198	23280
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exercise Metabolism and the Molecular Regulation of Skeletal Muscle Adaptation. Cell Metabolism, 2013, 17, 162-184.	7.2	1,502
2	AMP-activated protein kinase signaling in metabolic regulation. Journal of Clinical Investigation, 2006, 116, 1776-1783.	3.9	840
3	Integrative Biology of Exercise. Cell, 2014, 159, 738-749.	13.5	753
4	Interdependence of AMPK and SIRT1 for Metabolic Adaptation to Fasting and Exercise in Skeletal Muscle. Cell Metabolism, 2010, 11, 213-219.	7.2	752
5	Acute Exercise Remodels Promoter Methylation in Human Skeletal Muscle. Cell Metabolism, 2012, 15, 405-411.	7.2	729
6	Skeletal Muscle PGC-1Î±1 Modulates Kynurenine Metabolism and Mediates Resilience to Stress-Induced Depression. Cell, 2014, 159, 33-45.	13.5	581
7	Non-CpG Methylation of the PGC-1Î± Promoter through DNMT3B Controls Mitochondrial Density. Cell Metabolism, 2009, 10, 189-198.	7.2	530
8	Discovery of a Small Molecule Insulin Mimetic with Antidiabetic Activity in Mice. Science, 1999, 284, 974-977.	6.0	446
9	Obesity and Bariatric Surgery Drive Epigenetic Variation of Spermatozoa in Humans. Cell Metabolism, 2016, 23, 369-378.	7.2	435
10	Skeletal Muscle Fiber Type: Influence on Contractile and Metabolic Properties. PLoS Biology, 2004, 2, e348.	2.6	375
11	A common Greenlandic TBC1D4 variant confers muscle insulin resistance and type 2 diabetes. Nature, 2014, 512, 190-193.	13.7	338
12	Exercise Promotes Healthy Aging of Skeletal Muscle. Cell Metabolism, 2016, 23, 1034-1047.	7.2	335
13	Genetic Predisposition to an Impaired Metabolism of the Branched-Chain Amino Acids and Risk of Type 2 Diabetes: A Mendelian Randomisation Analysis. PLoS Medicine, 2016, 13, e1002179.	3.9	324
14	High-fat diet reprograms the epigenome of rat spermatozoa and transgenerationally affects metabolism of the offspring. Molecular Metabolism, 2016, 5, 184-197.	3.0	317
15	Exercise intensity-dependent regulation of peroxisome proliferator-activated receptor Î³ coactivator-1Î± mRNA abundance is associated with differential activation of upstream signalling kinases in human skeletal muscle. Journal of Physiology, 2010, 588, 1779-1790.	1.3	305
16	Early signaling responses to divergent exercise stimuli in skeletal muscle from wellâ€trained humans. FASEB Journal, 2006, 20, 190-192.	0.2	285
17	Exerkines in health, resilience and disease. Nature Reviews Endocrinology, 2022, 18, 273-289.	4.3	268
18	The 5â€²-AMP-activated Protein Kinase Î³3 Isoform Has a Key Role in Carbohydrate and Lipid Metabolism in Glycolytic Skeletal Muscle. Journal of Biological Chemistry, 2004, 279, 38441-38447.	1.6	264

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19	Insulin-Stimulated Phosphorylation of the Akt Substrate AS160 Is Impaired in Skeletal Muscle of Type 2 Diabetic Subjects. Diabetes, 2005, 54, 1692-1697.	0.3	241
20	AMPK-Mediated AS160 Phosphorylation in Skeletal Muscle Is Dependent on AMPK Catalytic and Regulatory Subunits. Diabetes, 2006, 55, 2051-2058.	0.3	239
21	Weight Loss after Gastric Bypass Surgery in Human Obesity Remodels Promoter Methylation. Cell Reports, 2013, 3, 1020-1027.	2.9	236
22	Transcriptomic profiling of skeletal muscle adaptations to exercise and inactivity. Nature Communications, 2020, 11, 470.	5.8	235
23	5-Amino-Imidazole Carboxamide Riboside Increases Glucose Transport and Cell-Surface GLUT4 Content in Skeletal Muscle From Subjects With Type 2 Diabetes. Diabetes, 2003, 52, 1066-1072.	0.3	214
24	Circadian rhythms and exercise â€" re-setting the clock in metabolic disease. Nature Reviews Endocrinology, 2019, 15, 197-206.	4.3	213
25	Divergent effects of exercise on metabolic and mitogenic signaling pathways in human skeletal muscle. FASEB Journal, 1998, 12, 1379-1389.	0.2	209
26	Exercise/Physical Activity in Individuals with Type 2 Diabetes: A Consensus Statement from the American College of Sports Medicine. Medicine and Science in Sports and Exercise, 2022, 54, 353-368.	0.2	209
27	Regulation of miRNAs in human skeletal muscle following acute endurance exercise and shortâ€term endurance training. Journal of Physiology, 2013, 591, 4637-4653.	1.3	207
28	Downregulation of Diacylglycerol Kinase Delta Contributes to Hyperglycemia-Induced Insulin Resistance. Cell, 2008, 132, 375-386.	13.5	194
29	Direct effects of FGF21 on glucose uptake in human skeletal muscle: implications for type 2 diabetes and obesity. Diabetes/Metabolism Research and Reviews, 2011, 27, 286-297.	1.7	187
30	siRNA-based gene silencing reveals specialized roles of IRS-1/Akt2 and IRS-2/Akt1 in glucose and lipid metabolism in human skeletal muscle. Cell Metabolism, 2006, 4, 89-96.	7.2	180
31	Time of Exercise Specifies the Impact on Muscle Metabolic Pathways and Systemic Energy Homeostasis. Cell Metabolism, 2019, 30, 92-110.e4.	7.2	176
32	Tbc1d1 mutation in lean mouse strain confers leanness and protects from diet-induced obesity. Nature Genetics, 2008, 40, 1354-1359.	9.4	174
33	Invited Review: Exercise training-induced changes in insulin signaling in skeletal muscle. Journal of Applied Physiology, 2002, 93, 773-781.	1.2	168
34	Gain-of-function R225Q Mutation in AMP-activated Protein Kinase Î³3 Subunit Increases Mitochondrial Biogenesis in Glycolytic Skeletal Muscle. Journal of Biological Chemistry, 2008, 283, 35724-35734.	1.6	157
35	Altered miR-29 Expression in Type 2 Diabetes Influences Glucose and Lipid Metabolism in Skeletal Muscle. Diabetes, 2017, 66, 1807-1818.	0.3	157
36	Afternoon exercise is more efficacious than morning exercise at improving blood glucose levels in individuals with type 2 diabetes: a randomised crossover trial. Diabetologia, 2019, 62, 233-237.	2.9	152

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37	Expression profiling of the Î³-subunit isoforms of AMP-activated protein kinase suggests a major role for Î³3 in white skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2004, 286, E194-E200.	1.8	151
38	The role of diet and exercise in the transgenerational epigenetic landscape of T2DM. Nature Reviews Endocrinology, 2016, 12, 441-451.	4.3	149
39	Effect of Contraction on Mitogen-activated Protein Kinase Signal Transduction in Skeletal Muscle. Journal of Biological Chemistry, 2000, 275, 1457-1462.	1.6	137
40	Enhanced Muscle Insulin Sensitivity After Contraction/Exercise Is Mediated by AMPK. Diabetes, 2017, 66, 598-612.	0.3	137
41	Acute Sleep Loss Induces Tissue-Specific Epigenetic and Transcriptional Alterations to Circadian Clock Genes in Men. Journal of Clinical Endocrinology and Metabolism, 2015, 100, E1255-E1261.	1.8	132
42	Epigenetic flexibility in metabolic regulation: disease cause and prevention?. Trends in Cell Biology, 2013, 23, 203-209.	3.6	127
43	Role of Skeletal Muscle in Thiazolidinedione Insulin Sensitizer (PPARÎ³ Agonist) Action. Endocrinology, 1998, 139, 5034-5041.	1.4	124
44	MAP4K4 Gene Silencing in Human Skeletal Muscle Prevents Tumor Necrosis Factor-Î±-induced Insulin Resistance. Journal of Biological Chemistry, 2007, 282, 7783-7789.	1.6	119
45	Insulin signaling and glucose transport in insulin resistant human skeletal muscle. Cell Biochemistry and Biophysics, 2007, 48, 103-113.	0.9	119
46	Prior AICAR Stimulation Increases Insulin Sensitivity in Mouse Skeletal Muscle in an AMPK-Dependent Manner. Diabetes, 2015, 64, 2042-2055.	0.3	115
47	Altered DNA methylation of glycolytic and lipogenic genes in liver from obese and type 2 diabetic patients. Molecular Metabolism, 2016, 5, 171-183.	3.0	115
48	The Limits of Exercise Physiology: From Performance to Health. Cell Metabolism, 2017, 25, 1000-1011.	7.2	113
49	Metabolic consequences of obesity and type 2 diabetes: Balancing genes and environment for personalized care. Cell, 2021, 184, 1530-1544.	13.5	113
50	Exerciseâ€induced overexpression of key regulatory proteins involved in glucose uptake and metabolism in tetraplegic persons: molecular mechanism for improved glucose homeostasis. FASEB Journal, 1998, 12, 1701-1712.	0.2	111
51	Muscle damage impairs insulin stimulation of IRS-1, PI 3-kinase, and Akt-kinase in human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2000, 279, E206-E212.	1.8	106
52	Nutritional, physiological, and menstrual status of distance runners. Medicine and Science in Sports and Exercise, 1989, 21, 120???125.	0.2	105
53	Circulating Exosomal miR-20b-5p Is Elevated in Type 2 Diabetes and Could Impair Insulin Action in Human Skeletal Muscle. Diabetes, 2019, 68, 515-526.	0.3	99
54	Marathon running increases ERK1/2 and p38 MAP kinase signalling to downstream targets in human skeletal muscle. Journal of Physiology, 2001, 536, 273-282.	1.3	98

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55	Mouse-Human Experimental Epigenetic Analysis Unmasks Dietary Targets and Genetic Liability for Diabetic Phenotypes. Cell Metabolism, 2015, 21, 138-149.	7.2	98
56	Low-intensity exercise increases skeletal muscle protein expression of PPARÎ´ and UCP3 in type 2 diabetic patients. Diabetes/Metabolism Research and Reviews, 2006, 22, 492-498.	1.7	97
57	Time Course Analysis Reveals Gene-Specific Transcript and Protein Kinetics of Adaptation to Short-Term Aerobic Exercise Training in Human Skeletal Muscle. PLoS ONE, 2013, 8, e74098.	1.1	97
58	Human Carboxylesterase 2 Reverses Obesity-Induced Diacylglycerol Accumulation and Glucose Intolerance. Cell Reports, 2017, 18, 636-646.	2.9	91
59	Comparative profiling of skeletal muscle models reveals heterogeneity of transcriptome and metabolism. American Journal of Physiology - Cell Physiology, 2020, 318, C615-C626.	2.1	91
60	Effects of Metformin and Rosiglitazone Treatment on Insulin Signaling and Glucose Uptake in Patients With Newly Diagnosed Type 2 Diabetes: A Randomized Controlled Study. Diabetes, 2005, 54, 1459-1467.	0.3	86
61	Acute sleep loss results in tissue-specific alterations in genome-wide DNA methylation state and metabolic fuel utilization in humans. Science Advances, 2018, 4, eaar8590.	4.7	86
62	Atlas of exercise metabolism reveals time-dependent signatures of metabolic homeostasis. Cell Metabolism, 2022, 34, 329-345.e8.	7.2	86
63	Exercise in the Management of Non???Insulin-Dependent Diabetes Mellitus. Sports Medicine, 1998, 25, 25-35.	3.1	85
64	Metabolic adaptations in skeletal muscle overexpressing GLUT4: effects on muscle and physical activity. FASEB Journal, 2001, 15, 958-969.	0.2	85
65	Phosphatidylinositol 3-Kinase-mediated Endocytosis of Renal Na+,K+-ATPase Î± Subunit in Response to Dopamine. Molecular Biology of the Cell, 1998, 9, 1209-1220.	0.9	82
66	Effects of sleeping with reduced carbohydrate availability on acute training responses. Journal of Applied Physiology, 2015, 119, 643-655.	1.2	82
67	Mitochondrial regulators of fatty acid metabolism reflect metabolic dysfunction in type 2 diabetes mellitus. Metabolism: Clinical and Experimental, 2012, 61, 175-185.	1.5	79
68	Insulin-stimulated Phosphorylation of the Rab GTPase-activating Protein TBC1D1 Regulates GLUT4 Translocation. Journal of Biological Chemistry, 2009, 284, 30016-30023.	1.6	75
69	Chrono-nutrition for the prevention and treatment of obesity and type 2 diabetes: from mice to men. Diabetologia, 2020, 63, 2253-2259.	2.9	72
70	Calcineurin Regulates Skeletal Muscle Metabolism via Coordinated Changes in Gene Expression. Journal of Biological Chemistry, 2007, 282, 1607-1614.	1.6	71
71	The Rab-GTPase-activating protein TBC1D1 regulates skeletal muscle glucose metabolism. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E524-E533.	1.8	71
72	Malonyl CoenzymeA Decarboxylase Regulates Lipid and Glucose Metabolism in Human Skeletal Muscle. Diabetes, 2008, 57, 1508-1516.	0.3	69

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73	Time-restricted feeding alters lipid and amino acid metabolite rhythmicity without perturbing clock gene expression. Nature Communications, 2020, 11, 4643.	5.8	69
74	Postexercise glucose uptake and glycogen synthesis in skeletal muscle from GLUT4â€deficient mice. FASEB Journal, 1999, 13, 2246-2256.	0.2	68
75	Insulin Signaling and Glucose Transport in Skeletal Muscle From First-Degree Relatives of Type 2 Diabetic Patients. Diabetes, 2006, 55, 1283-1288.	0.3	68
76	2â€D DIGE analysis of the mitochondrial proteome from human skeletal muscle reveals time courseâ€dependent remodelling in response to 14 consecutive days of endurance exercise training. Proteomics, 2011, 11, 1413-1428.	1.3	68
77	A Cell-Autonomous Signature of Dysregulated Protein Phosphorylation Underlies Muscle Insulin Resistance in Type 2 Diabetes. Cell Metabolism, 2020, 32, 844-859.e5.	7.2	68
78	Methotrexate Promotes Glucose Uptake and Lipid Oxidation in Skeletal Muscle via AMPK Activation. Diabetes, 2015, 64, 360-369.	0.3	66
79	Insulin action in skeletal muscle from patients with NIDDM. Molecular and Cellular Biochemistry, 1998, 182, 153-160.	1.4	65
80	Suppression of 5â€²-Nucleotidase Enzymes Promotes AMP-activated Protein Kinase (AMPK) Phosphorylation and Metabolism in Human and Mouse Skeletal Muscle. Journal of Biological Chemistry, 2011, 286, 34567-34574.	1.6	65
81	Exercise-induced mitogen-activated protein kinase signalling in skeletal muscle. Proceedings of the Nutrition Society, 2004, 63, 227-232.	0.4	64
82	5â€²â€AMPâ€activated protein kinase regulates skeletal muscle glycogen content and ergogenics. FASEB Journal, 2005, 19, 771-779.	0.2	63
83	Arterial stiffness estimation in healthy subjects: a validation of oscillometric (Arteriograph) and tonometric (SphygmoCor) techniques. Hypertension Research, 2014, 37, 999-1007.	1.5	62
84	Altered promoter methylation of PDK4, IL1 B, IL6, and TNF after Roux-en Y gastric bypass. Surgery for Obesity and Related Diseases, 2014, 10, 671-678.	1.0	62
85	Signalling mechanisms in skeletal muscle: role in substrate selection and muscle adaptation. Essays in Biochemistry, 2006, 42, 1-12.	2.1	61
86	Relationship between AMPK and the transcriptional balance of clock-related genes in skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2008, 295, E1032-E1037.	1.8	60
87	Looking Ahead Perspective: Where Will the Future of Exercise Biology Take Us?. Cell Metabolism, 2015, 22, 25-30.	7.2	59
88	Differential Regulation of Phosphoinositide 3-Kinase Adapter Subunit Variants by Insulin in Human Skeletal Muscle. Journal of Biological Chemistry, 1997, 272, 19000-19007.	1.6	57
89	Kinetics of GLUT4 Trafficking in Rat and Human Skeletal Muscle. Diabetes, 2009, 58, 847-854.	0.3	57
90	Exercise-associated differences in an array of proteins involved in signal transduction and glucose transport. Journal of Applied Physiology, 2001, 90, 29-34.	1.2	55

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91	MEF2 activation in differentiated primary human skeletal muscle cultures requires coordinated involvement of parallel pathways. American Journal of Physiology - Cell Physiology, 2004, 286, C1410-C1416.	2.1	55
92	Changes in Exercise-Induced Gene Expression in 5'-AMP-Activated Protein Kinase Â3-Null and Â3 R225Q Transgenic Mice. Diabetes, 2005, 54, 3484-3489.	0.3	53
93	Train like an athlete: applying exercise interventions to manage type 2 diabetes. Diabetologia, 2020, 63, 1491-1499.	2.9	50
94	From Receptor to Effector: Insulin Signal Transduction in Skeletal Muscle from Type II Diabetic Patients. Annals of the New York Academy of Sciences, 2002, 967, 120-134.	1.8	49
95	Opposite Transcriptional Regulation in Skeletal Muscle of AMP-activated Protein Kinase Î³3 R225Q Transgenic Versus Knock-out Mice. Journal of Biological Chemistry, 2006, 281, 7244-7252.	1.6	49
96	SnapShot: Exercise Metabolism. Cell Metabolism, 2016, 24, 342-342.e1.	7.2	49
97	The ZBED6â€“IGF2 axis has a major effect on growth of skeletal muscle and internal organs in placental mammals. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2048-E2057.	3.3	48
98	Neuregulins Mediate Calcium-induced Glucose Transport during Muscle Contraction. Journal of Biological Chemistry, 2006, 281, 21690-21697.	1.6	47
99	Evidence for non-CpG methylation in mammals. Experimental Cell Research, 2011, 317, 2555-2561.	1.2	46
100	Exercise Training in Obese Diabetic Patients. Sports Medicine, 1992, 14, 171-189.	3.1	44
101	Disrupted circadian oscillations in type 2 diabetes are linked to altered rhythmic mitochondrial metabolism in skeletal muscle. Science Advances, 2021, 7, eabi9654.	4.7	44
102	In vitro analysis of the glucose-transport system in GLUT4-null skeletal muscle. Biochemical Journal, 1999, 342, 321-328.	1.7	43
103	T Cellâ€“Mediated Inflammation in Adipose Tissue Does Not Cause Insulin Resistance in Hyperlipidemic Mice. Circulation Research, 2009, 104, 961-968.	2.0	41
104	Insulin Signaling Defects in Type 2 Diabetes. Reviews in Endocrine and Metabolic Disorders, 2004, 5, 111-117.	2.6	39
105	Direct effects of exercise on kynurenine metabolism in people with normal glucose tolerance or type 2 diabetes. Diabetes/Metabolism Research and Reviews, 2016, 32, 754-761.	1.7	39
106	Skeletal Muscle Insulin Sensitivity Show Circadian Rhythmicity Which Is Independent of Exercise Training Status. Frontiers in Physiology, 2018, 9, 1198.	1.3	37
107	Regulation of glucose uptake and inflammation markers by FOXO1 and FOXO3 in skeletal muscle. Molecular Metabolism, 2019, 20, 79-88.	3.0	37
108	Effects of exercise on mitogen- and stress-activated kinase signal transduction in human skeletal muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 279, R1716-R1721.	0.9	36

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109	Changes in Gene Expression in Responders and Nonresponders to a Low-Intensity Walking Intervention. Diabetes Care, 2015, 38, 1154-1160.	4.3	34
110	Restoration of Hypoxia-stimulated Glucose Uptake in GLUT4-deficient Muscles by Muscle-specific GLUT4 Transgenic Complementation. Journal of Biological Chemistry, 1998, 273, 20910-20915.	1.6	33
111	Bioenergetic cues shift FXR splicing towards FXRÎ±2 to modulate hepatic lipolysis and fatty acid metabolism. Molecular Metabolism, 2015, 4, 891-902.	3.0	33
112	Effects of AMPK Activation on Insulin Sensitivity and Metabolism in Leptin-Deficient ob/ob Mice. Diabetes, 2014, 63, 1560-1571.	0.3	32
113	The Path to Insulin Resistance: Paved with Ceramides?. Cell Metabolism, 2007, 5, 161-163.	7.2	31
114	Keeping ahead of the fast pace of science. Diabetologia, 2011, 54, 1-3.	2.9	31
115	Diacylglycerol kinase-Î´ regulates AMPK signaling, lipid metabolism, and skeletal muscle energetics. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E51-E60.	1.8	31
116	Dynamic epigenetic responses to muscle contraction. Drug Discovery Today, 2014, 19, 1010-1014.	3.2	29
117	Proteasome inhibition in skeletal muscle cells unmasks metabolic derangements in type 2 diabetes. American Journal of Physiology - Cell Physiology, 2014, 307, C774-C787.	2.1	28
118	Insulin and Glucose Alter Death-Associated Protein Kinase 3 (DAPK3) DNA Methylation in Human Skeletal Muscle. Diabetes, 2017, 66, 651-662.	0.3	28
119	Mass-spectrometry-based proteomics reveals mitochondrial supercomplexome plasticity. Cell Reports, 2021, 35, 109180.	2.9	28
120	Interplay between diet, exercise and the molecular circadian clock in orchestrating metabolic adaptations of adipose tissue. Journal of Physiology, 2019, 597, 1439-1450.	1.3	27
121	Prior serum- and AICAR-induced AMPK activation in primary human myocytes does not lead to subsequent increase in insulin-stimulated glucose uptake. American Journal of Physiology - Endocrinology and Metabolism, 2004, 287, E553-E557.	1.8	26
122	Contraction influences Per2 gene expression in skeletal muscle through a calciumâ€dependent pathway. Journal of Physiology, 2020, 598, 5739-5752.	1.3	26
123	Secreted protein acidic and rich in cysteine (SPARC) improves glucose toleranceviaAMPâ€activated protein kinase activation. FASEB Journal, 2019, 33, 10551-10562.	0.2	25
124	Comparative analysis of oral and intraperitoneal glucose tolerance tests in mice. Molecular Metabolism, 2022, 57, 101440.	3.0	25
125	Insulin-like growth factor II stimulates glucose transport in human skeletal muscle. FEBS Letters, 1992, 307, 379-382.	1.3	24
126	The effect of hyperglycaemia on glucose disposal and insulin signal transduction in skeletal muscle. Best Practice and Research in Clinical Endocrinology and Metabolism, 2003, 17, 385-398.	2.2	23

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127	Skeletal muscle insulin resistance after trauma: insulin signaling and glucose transport. American Journal of Physiology - Endocrinology and Metabolism, 1998, 275, E351-E358.	1.8	22
128	Proteomics Analysis of Skeletal Muscle from Leptinâ€Deficient ob/ob Mice Reveals Adaptive Remodeling of Metabolic Characteristics and Fiber Type Composition. Proteomics, 2018, 18, e1700375.	1.3	22
129	Impaired phosphocreatine metabolism in white adipocytes promotes inflammation. Nature Metabolism, 2022, 4, 190-202.	5.1	21
130	Exercise remodels subcutaneous fat tissue and improves metabolism. Nature Reviews Endocrinology, 2015, 11, 198-200.	4.3	20
131	FAK tyrosine phosphorylation is regulated by AMPK and controls metabolism in human skeletal muscle. Diabetologia, 2018, 61, 424-432.	2.9	20
132	Role of Diacylglycerol Kinases in Glucose and Energy Homeostasis. Trends in Endocrinology and Metabolism, 2019, 30, 603-617.	3.1	20
133	Influence of obesity, weight loss, and free fatty acids on skeletal muscle clock gene expression. American Journal of Physiology - Endocrinology and Metabolism, 2020, 318, E1-E10.	1.8	20
134	Branched-chain amino acid metabolism is regulated by ERRÎ± in primary human myotubes and is further impaired by glucose loading in type 2 diabetes. Diabetologia, 2021, 64, 2077-2091.	2.9	20
135	Endurance exercise training-responsive miR-19b-3p improves skeletal muscle glucose metabolism. Nature Communications, 2021, 12, 5948.	5.8	20
136	mRNA expression of diacylglycerol kinase isoforms in insulin-sensitive tissues: effects of obesity and insulin resistance. Physiological Reports, 2015, 3, e12372.	0.7	19
137	Dynamic changes in DICER levels in adipose tissue control metabolic adaptations to exercise. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23932-23941.	3.3	19
138	The Comparative Methylome and Transcriptome After Change of Direction Compared to Straight Line Running Exercise in Human Skeletal Muscle. Frontiers in Physiology, 2021, 12, 619447.	1.3	19
139	Protein kinase N2 regulates AMP kinase signaling and insulin responsiveness of glucose metabolism in skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2017, 313, E483-E491.	1.8	18
140	AMPK activation negatively regulates GDAP1, which influences metabolic processes and circadian gene expression in skeletal muscle. Molecular Metabolism, 2018, 16, 12-23.	3.0	17
141	Profiling of human myotubes reveals an intrinsic proteomic signature associated with type 2 diabetes. Translational Proteomics, 2014, 2, 25-38.	1.2	16
142	Temporal analysis of reciprocal miRNA-mRNA expression patterns predicts regulatory networks during differentiation in human skeletal muscle cells. Physiological Genomics, 2015, 47, 45-57.	1.0	16
143	Association of the ACTN3 R577X polymorphism with glucose tolerance and gene expression of sarcomeric proteins in human skeletal muscle. Physiological Reports, 2015, 3, e12314.	0.7	16
144	Discovery of thymosin Î²4 as a human exerkine and growth factor. American Journal of Physiology - Cell Physiology, 2021, 321, C770-C778.	2.1	16

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145	MicroRNA-208b progressively declines after spinal cord injury in humans and is inversely related to myostatin expression. Physiological Reports, 2015, 3, e12622.	0.7	15
146	Diacylglycerol kinase Îµ deficiency preserves glucose tolerance and modulates lipid metabolism in obese mice. Journal of Lipid Research, 2017, 58, 907-915.	2.0	15
147	Sphingolipid changes do not underlie fatty acid-evoked GLUT4 insulin resistance nor inflammation signals in muscle cells[S]. Journal of Lipid Research, 2018, 59, 1148-1163.	2.0	15
148	Modified UCN2 Peptide Acts as an Insulin Sensitizer in Skeletal Muscle of Obese Mice. Diabetes, 2019, 68, 1403-1414.	0.3	15
149	Paternal highâ€fat diet transgenerationally impacts hepatic immunometabolism. FASEB Journal, 2019, 33, 6269-6280.	0.2	15
150	Skeletal muscle AMP-activated protein kinase Î³1^{H151R} overexpression enhances whole body energy homeostasis and insulin sensitivity. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E679-E690.	1.8	14
151	Building Bridges through Scientific Conferences. Cell, 2016, 167, 1155-1158.	13.5	14
152	DGKÎ¶ deficiency protects against peripheral insulin resistance and improves energy metabolism. Journal of Lipid Research, 2017, 58, 2324-2333.	2.0	14
153	Effects of high-fat diet and AMP-activated protein kinase modulation on the regulation of whole-body lipid metabolism. Journal of Lipid Research, 2018, 59, 1276-1282.	2.0	14
154	Zeitgebers of skeletal muscle and implications for metabolic health. Journal of Physiology, 2021, , .	1.3	14
155	Glutamine Regulates Skeletal Muscle Immunometabolism in Type 2 Diabetes. Diabetes, 2022, 71, 624-636.	0.3	14
156	Diacylglycerol kinase Î± deficiency alters inflammation markers in adipose tissue in response to a high-fat diet. Journal of Lipid Research, 2018, 59, 273-282.	2.0	13
157	Three weeks of interrupting sitting lowers fasting glucose and glycemic variability, but not glucose tolerance, in free-living women and men with obesity. American Journal of Physiology - Endocrinology and Metabolism, 2021, 321, E203-E216.	1.8	13
158	Epigenetic rewiring of skeletal muscle enhancers after exercise training supports a role in whole-body function and human health. Molecular Metabolism, 2021, 53, 101290.	3.0	13
159	A simple and rapid method to characterize lipid fate in skeletal muscle. BMC Research Notes, 2014, 7, 391.	0.6	12
160	Influence of physical activity and gender on arterial function in type 2 diabetes, normal and impaired glucose tolerance. Diabetes and Vascular Disease Research, 2015, 12, 315-324.	0.9	12
161	Grandpaternal-induced transgenerational dietary reprogramming of the unfolded protein response in skeletal muscle. Molecular Metabolism, 2017, 6, 621-630.	3.0	12
162	Transcriptomic and epigenomics atlas of myotubes reveals insight into the circadian control of metabolism and development. Epigenomics, 2020, 12, 701-713.	1.0	12

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163	Integrated Liver and Plasma Proteomics in Obese Mice Reveals Complex Metabolic Regulation. Molecular and Cellular Proteomics, 2022, 21, 100207.	2.5	12
164	Early vertebrate origin and diversification of small transmembrane regulators of cellular ion transport. Journal of Physiology, 2017, 595, 4611-4630.	1.3	11
165	Modified UCN2 peptide treatment improves skeletal muscle mass and function in mouse models of obesityâ€induced insulin resistance. Journal of Cachexia, Sarcopenia and Muscle, 2021, 12, 1232-1248.	2.9	11
166	Gene expression of the p85Î± regulatory subunit of phosphatidylinositol 3-kinase in skeletal muscle from type 2 diabetic subjects. Pflugers Archiv European Journal of Physiology, 2002, 445, 25-31.	1.3	10
167	Major Advances and Discoveries in Diabetes - 2019 in Review. Current Diabetes Reports, 2019, 19, 118.	1.7	10
168	Development of Decreased Insulin-Induced Glucose Transport in Skeletal Muscle of Glucose-Intolerant Hybrids of Diabetic GK Rats. Clinical Science, 1995, 88, 301-306.	1.8	9
169	AMPKÎ³3 is dispensable for skeletal muscle hypertrophy induced by functional overload. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E461-E472.	1.8	9
170	Identification of two microRNA nodes as potential cooperative modulators of liver metabolism. Hepatology Research, 2019, 49, 1451-1465.	1.8	9
171	Post-translational Modifications: The Signals at the Intersection of Exercise, Glucose Uptake, and Insulin Sensitivity. Endocrine Reviews, 2022, 43, 654-677.	8.9	9
172	Evidence against high glucose as a mediator of ERK1/2 or p38 MAPK phosphorylation in rat skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2001, 281, E1255-E1259.	1.8	8
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