

# Juleen Rae Zierath

## List of Publications by Year in descending order

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187  
papers

19,810  
citations

13099

68  
h-index

11939

134  
g-index

198  
all docs

198  
docs citations

198  
times ranked

23280  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exercise Metabolism and the Molecular Regulation of Skeletal Muscle Adaptation. <i>Cell Metabolism</i> , 2013, 17, 162-184.	16.2	1,502
2	AMP-activated protein kinase signaling in metabolic regulation. <i>Journal of Clinical Investigation</i> , 2006, 116, 1776-1783.	8.2	840
3	Integrative Biology of Exercise. <i>Cell</i> , 2014, 159, 738-749.	28.9	753
4	Interdependence of AMPK and SIRT1 for Metabolic Adaptation to Fasting and Exercise in Skeletal Muscle. <i>Cell Metabolism</i> , 2010, 11, 213-219.	16.2	752
5	Acute Exercise Remodels Promoter Methylation in Human Skeletal Muscle. <i>Cell Metabolism</i> , 2012, 15, 405-411.	16.2	729
6	Skeletal Muscle PGC-1 $\beta$ Modulates Kynurenine Metabolism and Mediates Resilience to Stress-Induced Depression. <i>Cell</i> , 2014, 159, 33-45.	28.9	581
7	Non-CpG Methylation of the PGC-1 $\beta$ Promoter through DNMT3B Controls Mitochondrial Density. <i>Cell Metabolism</i> , 2009, 10, 189-198.	16.2	530
8	Discovery of a Small Molecule Insulin Mimetic with Antidiabetic Activity in Mice. <i>Science</i> , 1999, 284, 974-977.	12.6	446
9	Obesity and Bariatric Surgery Drive Epigenetic Variation of Spermatozoa in Humans. <i>Cell Metabolism</i> , 2016, 23, 369-378.	16.2	435
10	Skeletal Muscle Fiber Type: Influence on Contractile and Metabolic Properties. <i>PLoS Biology</i> , 2004, 2, e348.	5.6	375
11	A common Greenlandic TBC1D4 variant confers muscle insulin resistance and type 2 diabetes. <i>Nature</i> , 2014, 512, 190-193.	27.8	338
12	Exercise Promotes Healthy Aging of Skeletal Muscle. <i>Cell Metabolism</i> , 2016, 23, 1034-1047.	16.2	335
13	Genetic Predisposition to an Impaired Metabolism of the Branched-Chain Amino Acids and Risk of Type 2 Diabetes: A Mendelian Randomisation Analysis. <i>PLoS Medicine</i> , 2016, 13, e1002179.	8.4	324
14	High-fat diet reprograms the epigenome of rat spermatozoa and transgenerationally affects metabolism of the offspring. <i>Molecular Metabolism</i> , 2016, 5, 184-197.	6.5	317
15	Exercise intensity-dependent regulation of peroxisome proliferator-activated receptor $\gamma$ coactivator-1 $\beta$ mRNA abundance is associated with differential activation of upstream signalling kinases in human skeletal muscle. <i>Journal of Physiology</i> , 2010, 588, 1779-1790.	2.9	305
16	Early signaling responses to divergent exercise stimuli in skeletal muscle from well-trained humans. <i>FASEB Journal</i> , 2006, 20, 190-192.	0.5	285
17	Exerkines in health, resilience and disease. <i>Nature Reviews Endocrinology</i> , 2022, 18, 273-289.	9.6	268
18	The 5 $\alpha$ -AMP-activated Protein Kinase $\beta$ 3 Isoform Has a Key Role in Carbohydrate and Lipid Metabolism in Glycolytic Skeletal Muscle. <i>Journal of Biological Chemistry</i> , 2004, 279, 38441-38447.	3.4	264

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19	Insulin-Stimulated Phosphorylation of the Akt Substrate AS160 Is Impaired in Skeletal Muscle of Type 2 Diabetic Subjects. <i>Diabetes</i> , 2005, 54, 1692-1697.	0.6	241
20	AMPK-Mediated AS160 Phosphorylation in Skeletal Muscle Is Dependent on AMPK Catalytic and Regulatory Subunits. <i>Diabetes</i> , 2006, 55, 2051-2058.	0.6	239
21	Weight Loss after Gastric Bypass Surgery in Human Obesity Remodels Promoter Methylation. <i>Cell Reports</i> , 2013, 3, 1020-1027.	6.4	236
22	Transcriptomic profiling of skeletal muscle adaptations to exercise and inactivity. <i>Nature Communications</i> , 2020, 11, 470.	12.8	235
23	5-Amino-Imidazole Carboxamide Riboside Increases Glucose Transport and Cell-Surface GLUT4 Content in Skeletal Muscle From Subjects With Type 2 Diabetes. <i>Diabetes</i> , 2003, 52, 1066-1072.	0.6	214
24	Circadian rhythms and exercise "re-setting the clock in metabolic disease. <i>Nature Reviews Endocrinology</i> , 2019, 15, 197-206.	9.6	213
25	Divergent effects of exercise on metabolic and mitogenic signaling pathways in human skeletal muscle. <i>FASEB Journal</i> , 1998, 12, 1379-1389.	0.5	209
26	Exercise/Physical Activity in Individuals with Type 2 Diabetes: A Consensus Statement from the American College of Sports Medicine. <i>Medicine and Science in Sports and Exercise</i> , 2022, 54, 353-368.	0.4	209
27	Regulation of miRNAs in human skeletal muscle following acute endurance exercise and short-term endurance training. <i>Journal of Physiology</i> , 2013, 591, 4637-4653.	2.9	207
28	Downregulation of Diacylglycerol Kinase Delta Contributes to Hyperglycemia-Induced Insulin Resistance. <i>Cell</i> , 2008, 132, 375-386.	28.9	194
29	Direct effects of FGF21 on glucose uptake in human skeletal muscle: implications for type 2 diabetes and obesity. <i>Diabetes/Metabolism Research and Reviews</i> , 2011, 27, 286-297.	4.0	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. <i>Cell Metabolism</i> , 2006, 4, 89-96.	16.2	180
31	Time of Exercise Specifies the Impact on Muscle Metabolic Pathways and Systemic Energy Homeostasis. <i>Cell Metabolism</i> , 2019, 30, 92-110.e4.	16.2	176
32	Tbc1d1 mutation in lean mouse strain confers leanness and protects from diet-induced obesity. <i>Nature Genetics</i> , 2008, 40, 1354-1359.	21.4	174
33	Invited Review: Exercise training-induced changes in insulin signaling in skeletal muscle. <i>Journal of Applied Physiology</i> , 2002, 93, 773-781.	2.5	168
34	Gain-of-function R225Q Mutation in AMP-activated Protein Kinase $\beta$ 3 Subunit Increases Mitochondrial Biogenesis in Glycolytic Skeletal Muscle. <i>Journal of Biological Chemistry</i> , 2008, 283, 35724-35734.	3.4	157
35	Altered miR-29 Expression in Type 2 Diabetes Influences Glucose and Lipid Metabolism in Skeletal Muscle. <i>Diabetes</i> , 2017, 66, 1807-1818.	0.6	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. <i>Diabetologia</i> , 2019, 62, 233-237.	6.3	152

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37	Expression profiling of the $\beta$ -subunit isoforms of AMP-activated protein kinase suggests a major role for $\beta$ 3 in white skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004, 286, E194-E200.	3.5	151
38	The role of diet and exercise in the transgenerational epigenetic landscape of T2DM. <i>Nature Reviews Endocrinology</i> , 2016, 12, 441-451.	9.6	149
39	Effect of Contraction on Mitogen-activated Protein Kinase Signal Transduction in Skeletal Muscle. <i>Journal of Biological Chemistry</i> , 2000, 275, 1457-1462.	3.4	137
40	Enhanced Muscle Insulin Sensitivity After Contraction/Exercise Is Mediated by AMPK. <i>Diabetes</i> , 2017, 66, 598-612.	0.6	137
41	Acute Sleep Loss Induces Tissue-Specific Epigenetic and Transcriptional Alterations to Circadian Clock Genes in Men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, E1255-E1261.	3.6	132
42	Epigenetic flexibility in metabolic regulation: disease cause and prevention?. <i>Trends in Cell Biology</i> , 2013, 23, 203-209.	7.9	127
43	Role of Skeletal Muscle in Thiazolidinedione Insulin Sensitizer (PPAR $\beta$ Agonist) Action. <i>Endocrinology</i> , 1998, 139, 5034-5041.	2.8	124
44	MAP4K4 Gene Silencing in Human Skeletal Muscle Prevents Tumor Necrosis Factor- $\alpha$ -induced Insulin Resistance. <i>Journal of Biological Chemistry</i> , 2007, 282, 7783-7789.	3.4	119
45	Insulin signaling and glucose transport in insulin resistant human skeletal muscle. <i>Cell Biochemistry and Biophysics</i> , 2007, 48, 103-113.	1.8	119
46	Prior AICAR Stimulation Increases Insulin Sensitivity in Mouse Skeletal Muscle in an AMPK-Dependent Manner. <i>Diabetes</i> , 2015, 64, 2042-2055.	0.6	115
47	Altered DNA methylation of glycolytic and lipogenic genes in liver from obese and type 2 diabetic patients. <i>Molecular Metabolism</i> , 2016, 5, 171-183.	6.5	115
48	The Limits of Exercise Physiology: From Performance to Health. <i>Cell Metabolism</i> , 2017, 25, 1000-1011.	16.2	113
49	Metabolic consequences of obesity and type 2 diabetes: Balancing genes and environment for personalized care. <i>Cell</i> , 2021, 184, 1530-1544.	28.9	113
50	Exercise-induced overexpression of key regulatory proteins involved in glucose uptake and metabolism in tetraplegic persons: molecular mechanism for improved glucose homeostasis. <i>FASEB Journal</i> , 1998, 12, 1701-1712.	0.5	111
51	Muscle damage impairs insulin stimulation of IRS-1, PI 3-kinase, and Akt-kinase in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000, 279, E206-E212.	3.5	106
52	Nutritional, physiological, and menstrual status of distance runners. <i>Medicine and Science in Sports and Exercise</i> , 1989, 21, 120-125.	0.4	105
53	Circulating Exosomal miR-20b-5p Is Elevated in Type 2 Diabetes and Could Impair Insulin Action in Human Skeletal Muscle. <i>Diabetes</i> , 2019, 68, 515-526.	0.6	99
54	Marathon running increases ERK1/2 and p38 MAP kinase signalling to downstream targets in human skeletal muscle. <i>Journal of Physiology</i> , 2001, 536, 273-282.	2.9	98

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55	Mouse-Human Experimental Epigenetic Analysis Unmasks Dietary Targets and Genetic Liability for Diabetic Phenotypes. <i>Cell Metabolism</i> , 2015, 21, 138-149.	16.2	98
56	Low-intensity exercise increases skeletal muscle protein expression of PPAR $\gamma$ and UCP3 in type 2 diabetic patients. <i>Diabetes/Metabolism Research and Reviews</i> , 2006, 22, 492-498.	4.0	97
57	Time Course Analysis Reveals Gene-Specific Transcript and Protein Kinetics of Adaptation to Short-Term Aerobic Exercise Training in Human Skeletal Muscle. <i>PLoS ONE</i> , 2013, 8, e74098.	2.5	97
58	Human Carboxylesterase 2 Reverses Obesity-Induced Diacylglycerol Accumulation and Glucose Intolerance. <i>Cell Reports</i> , 2017, 18, 636-646.	6.4	91
59	Comparative profiling of skeletal muscle models reveals heterogeneity of transcriptome and metabolism. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 318, C615-C626.	4.6	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. <i>Diabetes</i> , 2005, 54, 1459-1467.	0.6	86
61	Acute sleep loss results in tissue-specific alterations in genome-wide DNA methylation state and metabolic fuel utilization in humans. <i>Science Advances</i> , 2018, 4, eaar8590.	10.3	86
62	Atlas of exercise metabolism reveals time-dependent signatures of metabolic homeostasis. <i>Cell Metabolism</i> , 2022, 34, 329-345.e8.	16.2	86
63	Exercise in the Management of Non-Insulin-Dependent Diabetes Mellitus. <i>Sports Medicine</i> , 1998, 25, 25-35.	6.5	85
64	Metabolic adaptations in skeletal muscle overexpressing GLUT4: effects on muscle and physical activity. <i>FASEB Journal</i> , 2001, 15, 958-969.	0.5	85
65	Phosphatidylinositol 3-Kinase-mediated Endocytosis of Renal Na <sup>+</sup> ,K <sup>+</sup> -ATPase $\alpha$ Subunit in Response to Dopamine. <i>Molecular Biology of the Cell</i> , 1998, 9, 1209-1220.	2.1	82
66	Effects of sleeping with reduced carbohydrate availability on acute training responses. <i>Journal of Applied Physiology</i> , 2015, 119, 643-655.	2.5	82
67	Mitochondrial regulators of fatty acid metabolism reflect metabolic dysfunction in type 2 diabetes mellitus. <i>Metabolism: Clinical and Experimental</i> , 2012, 61, 175-185.	3.4	79
68	Insulin-stimulated Phosphorylation of the Rab GTPase-activating Protein TBC1D1 Regulates GLUT4 Translocation. <i>Journal of Biological Chemistry</i> , 2009, 284, 30016-30023.	3.4	75
69	Chrono-nutrition for the prevention and treatment of obesity and type 2 diabetes: from mice to men. <i>Diabetologia</i> , 2020, 63, 2253-2259.	6.3	72
70	Calcineurin Regulates Skeletal Muscle Metabolism via Coordinated Changes in Gene Expression. <i>Journal of Biological Chemistry</i> , 2007, 282, 1607-1614.	3.4	71
71	The Rab-GTPase-activating protein TBC1D1 regulates skeletal muscle glucose metabolism. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 303, E524-E533.	3.5	71
72	Malonyl CoenzymeA Decarboxylase Regulates Lipid and Glucose Metabolism in Human Skeletal Muscle. <i>Diabetes</i> , 2008, 57, 1508-1516.	0.6	69

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73	Time-restricted feeding alters lipid and amino acid metabolite rhythmicity without perturbing clock gene expression. <i>Nature Communications</i> , 2020, 11, 4643.	12.8	69
74	Postexercise glucose uptake and glycogen synthesis in skeletal muscle from GLUT4-deficient mice. <i>FASEB Journal</i> , 1999, 13, 2246-2256.	0.5	68
75	Insulin Signaling and Glucose Transport in Skeletal Muscle From First-Degree Relatives of Type 2 Diabetic Patients. <i>Diabetes</i> , 2006, 55, 1283-1288.	0.6	68
76	2D DIGE analysis of the mitochondrial proteome from human skeletal muscle reveals time course-dependent remodelling in response to 14 consecutive days of endurance exercise training. <i>Proteomics</i> , 2011, 11, 1413-1428.	2.2	68
77	A Cell-Autonomous Signature of Dysregulated Protein Phosphorylation Underlies Muscle Insulin Resistance in Type 2 Diabetes. <i>Cell Metabolism</i> , 2020, 32, 844-859.e5.	16.2	68
78	Methotrexate Promotes Glucose Uptake and Lipid Oxidation in Skeletal Muscle via AMPK Activation. <i>Diabetes</i> , 2015, 64, 360-369.	0.6	66
79	Insulin action in skeletal muscle from patients with NIDDM. <i>Molecular and Cellular Biochemistry</i> , 1998, 182, 153-160.	3.1	65
80	Suppression of 5'-Nucleotidase Enzymes Promotes AMP-activated Protein Kinase (AMPK) Phosphorylation and Metabolism in Human and Mouse Skeletal Muscle. <i>Journal of Biological Chemistry</i> , 2011, 286, 34567-34574.	3.4	65
81	Exercise-induced mitogen-activated protein kinase signalling in skeletal muscle. <i>Proceedings of the Nutrition Society</i> , 2004, 63, 227-232.	1.0	64
82	5'-AMP-activated protein kinase regulates skeletal muscle glycogen content and ergogenics. <i>FASEB Journal</i> , 2005, 19, 771-779.	0.5	63
83	Arterial stiffness estimation in healthy subjects: a validation of oscillometric (Arteriograph) and tonometric (SphygmoCor) techniques. <i>Hypertension Research</i> , 2014, 37, 999-1007.	2.7	62
84	Altered promoter methylation of PDK4, IL1 B, IL6, and TNF after Roux-en Y gastric bypass. <i>Surgery for Obesity and Related Diseases</i> , 2014, 10, 671-678.	1.2	62
85	Signalling mechanisms in skeletal muscle: role in substrate selection and muscle adaptation. <i>Essays in Biochemistry</i> , 2006, 42, 1-12.	4.7	61
86	Relationship between AMPK and the transcriptional balance of clock-related genes in skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008, 295, E1032-E1037.	3.5	60
87	Looking Ahead Perspective: Where Will the Future of Exercise Biology Take Us?. <i>Cell Metabolism</i> , 2015, 22, 25-30.	16.2	59
88	Differential Regulation of Phosphoinositide 3-Kinase Adapter Subunit Variants by Insulin in Human Skeletal Muscle. <i>Journal of Biological Chemistry</i> , 1997, 272, 19000-19007.	3.4	57
89	Kinetics of GLUT4 Trafficking in Rat and Human Skeletal Muscle. <i>Diabetes</i> , 2009, 58, 847-854.	0.6	57
90	Exercise-associated differences in an array of proteins involved in signal transduction and glucose transport. <i>Journal of Applied Physiology</i> , 2001, 90, 29-34.	2.5	55

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91	MEF2 activation in differentiated primary human skeletal muscle cultures requires coordinated involvement of parallel pathways. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 286, C1410-C1416.	4.6	55
92	Changes in Exercise-Induced Gene Expression in 5'-AMP-Activated Protein Kinase $\beta$ -Null and $\beta$ R225Q Transgenic Mice. <i>Diabetes</i> , 2005, 54, 3484-3489.	0.6	53
93	Train like an athlete: applying exercise interventions to manage type 2 diabetes. <i>Diabetologia</i> , 2020, 63, 1491-1499.	6.3	50
94	From Receptor to Effector: Insulin Signal Transduction in Skeletal Muscle from Type II Diabetic Patients. <i>Annals of the New York Academy of Sciences</i> , 2002, 967, 120-134.	3.8	49
95	Opposite Transcriptional Regulation in Skeletal Muscle of AMP-activated Protein Kinase $\beta$ R225Q Transgenic Versus Knock-out Mice. <i>Journal of Biological Chemistry</i> , 2006, 281, 7244-7252.	3.4	49
96	SnapShot: Exercise Metabolism. <i>Cell Metabolism</i> , 2016, 24, 342-342.e1.	16.2	49
97	The ZBED6-IGF2 axis has a major effect on growth of skeletal muscle and internal organs in placental mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E2048-E2057.	7.1	48
98	Neuregulins Mediate Calcium-induced Glucose Transport during Muscle Contraction. <i>Journal of Biological Chemistry</i> , 2006, 281, 21690-21697.	3.4	47
99	Evidence for non-CpG methylation in mammals. <i>Experimental Cell Research</i> , 2011, 317, 2555-2561.	2.6	46
100	Exercise Training in Obese Diabetic Patients. <i>Sports Medicine</i> , 1992, 14, 171-189.	6.5	44
101	Disrupted circadian oscillations in type 2 diabetes are linked to altered rhythmic mitochondrial metabolism in skeletal muscle. <i>Science Advances</i> , 2021, 7, eabi9654.	10.3	44
102	In vitro analysis of the glucose-transport system in GLUT4-null skeletal muscle. <i>Biochemical Journal</i> , 1999, 342, 321-328.	3.7	43
103	T Cell-Mediated Inflammation in Adipose Tissue Does Not Cause Insulin Resistance in Hyperlipidemic Mice. <i>Circulation Research</i> , 2009, 104, 961-968.	4.5	41
104	Insulin Signaling Defects in Type 2 Diabetes. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2004, 5, 111-117.	5.7	39
105	Direct effects of exercise on kynurenine metabolism in people with normal glucose tolerance or type 2 diabetes. <i>Diabetes/Metabolism Research and Reviews</i> , 2016, 32, 754-761.	4.0	39
106	Skeletal Muscle Insulin Sensitivity Show Circadian Rhythmicity Which Is Independent of Exercise Training Status. <i>Frontiers in Physiology</i> , 2018, 9, 1198.	2.8	37
107	Regulation of glucose uptake and inflammation markers by FOXO1 and FOXO3 in skeletal muscle. <i>Molecular Metabolism</i> , 2019, 20, 79-88.	6.5	37
108	Effects of exercise on mitogen- and stress-activated kinase signal transduction in human skeletal muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000, 279, R1716-R1721.	1.8	36

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109	Changes in Gene Expression in Responders and Nonresponders to a Low-Intensity Walking Intervention. <i>Diabetes Care</i> , 2015, 38, 1154-1160.	8.6	34
110	Restoration of Hypoxia-stimulated Glucose Uptake in GLUT4-deficient Muscles by Muscle-specific GLUT4 Transgenic Complementation. <i>Journal of Biological Chemistry</i> , 1998, 273, 20910-20915.	3.4	33
111	Bioenergetic cues shift FXR splicing towards FXR $\Delta$ 2 to modulate hepatic lipolysis and fatty acid metabolism. <i>Molecular Metabolism</i> , 2015, 4, 891-902.	6.5	33
112	Effects of AMPK Activation on Insulin Sensitivity and Metabolism in Leptin-Deficient <i>ob/ob</i> Mice. <i>Diabetes</i> , 2014, 63, 1560-1571.	0.6	32
113	The Path to Insulin Resistance: Paved with Ceramides?. <i>Cell Metabolism</i> , 2007, 5, 161-163.	16.2	31
114	Keeping ahead of the fast pace of science. <i>Diabetologia</i> , 2011, 54, 1-3.	6.3	31
115	Diacylglycerol kinase- $\beta$ regulates AMPK signaling, lipid metabolism, and skeletal muscle energetics. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 310, E51-E60.	3.5	31
116	Dynamic epigenetic responses to muscle contraction. <i>Drug Discovery Today</i> , 2014, 19, 1010-1014.	6.4	29
117	Proteasome inhibition in skeletal muscle cells unmask metabolic derangements in type 2 diabetes. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 307, C774-C787.	4.6	28
118	Insulin and Glucose Alter Death-Associated Protein Kinase 3 (DAPK3) DNA Methylation in Human Skeletal Muscle. <i>Diabetes</i> , 2017, 66, 651-662.	0.6	28
119	Mass-spectrometry-based proteomics reveals mitochondrial supercomplexome plasticity. <i>Cell Reports</i> , 2021, 35, 109180.	6.4	28
120	Interplay between diet, exercise and the molecular circadian clock in orchestrating metabolic adaptations of adipose tissue. <i>Journal of Physiology</i> , 2019, 597, 1439-1450.	2.9	27
121	Prior serum- and AICAR-induced AMPK activation in primary human myocytes does not lead to subsequent increase in insulin-stimulated glucose uptake. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004, 287, E553-E557.	3.5	26
122	Contraction influences <i>Per2</i> gene expression in skeletal muscle through a calcium-dependent pathway. <i>Journal of Physiology</i> , 2020, 598, 5739-5752.	2.9	26
123	Secreted protein acidic and rich in cysteine (SPARC) improves glucose tolerance via AMP-activated protein kinase activation. <i>FASEB Journal</i> , 2019, 33, 10551-10562.	0.5	25
124	Comparative analysis of oral and intraperitoneal glucose tolerance tests in mice. <i>Molecular Metabolism</i> , 2022, 57, 101440.	6.5	25
125	Insulin-like growth factor II stimulates glucose transport in human skeletal muscle. <i>FEBS Letters</i> , 1992, 307, 379-382.	2.8	24
126	The effect of hyperglycaemia on glucose disposal and insulin signal transduction in skeletal muscle. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2003, 17, 385-398.	4.7	23



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127	Skeletal muscle insulin resistance after trauma: insulin signaling and glucose transport. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1998, 275, E351-E358.	3.5	22
128	Proteomics Analysis of Skeletal Muscle from Leptinâ€Deficient <i>ob/ob</i> Mice Reveals Adaptive Remodeling of Metabolic Characteristics and Fiber Type Composition. <i>Proteomics</i> , 2018, 18, e1700375.	2.2	22
129	Impaired phosphocreatine metabolism in white adipocytes promotes inflammation. <i>Nature Metabolism</i> , 2022, 4, 190-202.	11.9	21
130	Exercise remodels subcutaneous fat tissue and improves metabolism. <i>Nature Reviews Endocrinology</i> , 2015, 11, 198-200.	9.6	20
131	FAK tyrosine phosphorylation is regulated by AMPK and controls metabolism in human skeletal muscle. <i>Diabetologia</i> , 2018, 61, 424-432.	6.3	20
132	Role of Diacylglycerol Kinases in Glucose and Energy Homeostasis. <i>Trends in Endocrinology and Metabolism</i> , 2019, 30, 603-617.	7.1	20
133	Influence of obesity, weight loss, and free fatty acids on skeletal muscle clock gene expression. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020, 318, E1-E10.	3.5	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. <i>Diabetologia</i> , 2021, 64, 2077-2091.	6.3	20
135	Endurance exercise training-responsive miR-19b-3p improves skeletal muscle glucose metabolism. <i>Nature Communications</i> , 2021, 12, 5948.	12.8	20
136	mRNA expression of diacylglycerol kinase isoforms in insulin-sensitive tissues: effects of obesity and insulin resistance. <i>Physiological Reports</i> , 2015, 3, e12372.	1.7	19
137	Dynamic changes in DICER levels in adipose tissue control metabolic adaptations to exercise. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23932-23941.	7.1	19
138	The Comparative Methylome and Transcriptome After Change of Direction Compared to Straight Line Running Exercise in Human Skeletal Muscle. <i>Frontiers in Physiology</i> , 2021, 12, 619447.	2.8	19
139	Protein kinase N2 regulates AMP kinase signaling and insulin responsiveness of glucose metabolism in skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2017, 313, E483-E491.	3.5	18
140	AMPK activation negatively regulates GDAP1, which influences metabolic processes and circadian gene expression in skeletal muscle. <i>Molecular Metabolism</i> , 2018, 16, 12-23.	6.5	17
141	Profiling of human myotubes reveals an intrinsic proteomic signature associated with type 2 diabetes. <i>Translational Proteomics</i> , 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. <i>Physiological Genomics</i> , 2015, 47, 45-57.	2.3	16
143	Association of the ACTN3 R577X polymorphism with glucose tolerance and gene expression of sarcomeric proteins in human skeletal muscle. <i>Physiological Reports</i> , 2015, 3, e12314.	1.7	16
144	Discovery of thymosin Î²4 as a human exerkine and growth factor. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 321, C770-C778.	4.6	16

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145	MicroRNA-208b progressively declines after spinal cord injury in humans and is inversely related to myostatin expression. <i>Physiological Reports</i> , 2015, 3, e12622.	1.7	15
146	Diacylglycerol kinase $\beta$ deficiency preserves glucose tolerance and modulates lipid metabolism in obese mice. <i>Journal of Lipid Research</i> , 2017, 58, 907-915.	4.2	15
147	Sphingolipid changes do not underlie fatty acid-evoked GLUT4 insulin resistance nor inflammation signals in muscle cells[S]. <i>Journal of Lipid Research</i> , 2018, 59, 1148-1163.	4.2	15
148	Modified UCN2 Peptide Acts as an Insulin Sensitizer in Skeletal Muscle of Obese Mice. <i>Diabetes</i> , 2019, 68, 1403-1414.	0.6	15
149	Paternal high-fat diet transgenerationally impacts hepatic immunometabolism. <i>FASEB Journal</i> , 2019, 33, 6269-6280.	0.5	15
150	Skeletal muscle AMP-activated protein kinase $\beta$ 1 overexpression enhances whole body energy homeostasis and insulin sensitivity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 309, E679-E690.	3.5	14
151	Building Bridges through Scientific Conferences. <i>Cell</i> , 2016, 167, 1155-1158.	28.9	14
152	DGK $\alpha$ deficiency protects against peripheral insulin resistance and improves energy metabolism. <i>Journal of Lipid Research</i> , 2017, 58, 2324-2333.	4.2	14
153	Effects of high-fat diet and AMP-activated protein kinase modulation on the regulation of whole-body lipid metabolism. <i>Journal of Lipid Research</i> , 2018, 59, 1276-1282.	4.2	14
154	Zeitgebers of skeletal muscle and implications for metabolic health. <i>Journal of Physiology</i> , 2021, , .	2.9	14
155	Glutamine Regulates Skeletal Muscle Immunometabolism in Type 2 Diabetes. <i>Diabetes</i> , 2022, 71, 624-636.	0.6	14
156	Diacylglycerol kinase $\beta$ deficiency alters inflammation markers in adipose tissue in response to a high-fat diet. <i>Journal of Lipid Research</i> , 2018, 59, 273-282.	4.2	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. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2021, 321, E203-E216.	3.5	13
158	Epigenetic rewiring of skeletal muscle enhancers after exercise training supports a role in whole-body function and human health. <i>Molecular Metabolism</i> , 2021, 53, 101290.	6.5	13
159	A simple and rapid method to characterize lipid fate in skeletal muscle. <i>BMC Research Notes</i> , 2014, 7, 391.	1.4	12
160	Influence of physical activity and gender on arterial function in type 2 diabetes, normal and impaired glucose tolerance. <i>Diabetes and Vascular Disease Research</i> , 2015, 12, 315-324.	2.0	12
161	Grandpaternal-induced transgenerational dietary reprogramming of the unfolded protein response in skeletal muscle. <i>Molecular Metabolism</i> , 2017, 6, 621-630.	6.5	12
162	Transcriptomic and epigenomics atlas of myotubes reveals insight into the circadian control of metabolism and development. <i>Epigenomics</i> , 2020, 12, 701-713.	2.1	12

#	ARTICLE	IF	CITATIONS
163	Integrated Liver and Plasma Proteomics in Obese Mice Reveals Complex Metabolic Regulation. <i>Molecular and Cellular Proteomics</i> , 2022, 21, 100207.	3.8	12
164	Early vertebrate origin and diversification of small transmembrane regulators of cellular ion transport. <i>Journal of Physiology</i> , 2017, 595, 4611-4630.	2.9	11
165	Modified UCN2 peptide treatment improves skeletal muscle mass and function in mouse models of obesity-induced insulin resistance. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2021, 12, 1232-1248.	7.3	11
166	Gene expression of the p85 regulatory subunit of phosphatidylinositol 3-kinase in skeletal muscle from type 2 diabetic subjects. <i>Pflügers Archiv European Journal of Physiology</i> , 2002, 445, 25-31.	2.8	10
167	Major Advances and Discoveries in Diabetes - 2019 in Review. <i>Current Diabetes Reports</i> , 2019, 19, 118.	4.2	10
168	Development of Decreased Insulin-Induced Glucose Transport in Skeletal Muscle of Glucose-Intolerant Hybrids of Diabetic GK Rats. <i>Clinical Science</i> , 1995, 88, 301-306.	4.3	9
169	AMPK $\beta$ 3 is dispensable for skeletal muscle hypertrophy induced by functional overload. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 310, E461-E472.	3.5	9
170	Identification of two microRNA nodes as potential cooperative modulators of liver metabolism. <i>Hepatology Research</i> , 2019, 49, 1451-1465.	3.4	9
171	Post-translational Modifications: The Signals at the Intersection of Exercise, Glucose Uptake, and Insulin Sensitivity. <i>Endocrine Reviews</i> , 2022, 43, 654-677.	20.1	9
172	Evidence against high glucose as a mediator of ERK1/2 or p38 MAPK phosphorylation in rat skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001, 281, E1255-E1259.	3.5	8
173	Short-term low-calorie diet remodels skeletal muscle lipid profile and metabolic gene expression in obese adults. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 316, E178-E185.	3.5	8
174	Role of the AMPK $\beta$ 3 isoform in hypoxia-stimulated glucose transport in glycolytic skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 297, E1388-E1394.	3.5	7
175	COVID-19 editorial: mechanistic links and therapeutic challenges for metabolic diseases one year into the COVID-19 pandemic. <i>Metabolism: Clinical and Experimental</i> , 2021, 119, 154769.	3.4	6
176	Research Highlights: Nutritional status affects the epigenomic profile of peripheral blood cells. <i>Epigenomics</i> , 2011, 3, 259-260.	2.1	5
177	Retained differentiation capacity of human skeletal muscle satellite cells from spinal cord-injured individuals. <i>Physiological Reports</i> , 2018, 6, e13739.	1.7	5
178	Changes in Vitamin D Status in Overweight Middle-Aged Adults with or without Impaired Glucose Metabolism in Two Consecutive Nordic Summers. <i>Journal of Nutrition and Metabolism</i> , 2019, 2019, 1-8.	1.8	5
179	Quantitative phosphoproteomic analysis of IRS1 in skeletal muscle from men with normal glucose tolerance or type 2 diabetes: A case-control study. <i>Metabolism: Clinical and Experimental</i> , 2021, 118, 154726.	3.4	5
180	The role of the molecular circadian clock in human energy homeostasis. <i>Current Opinion in Lipidology</i> , 2021, 32, 16-23.	2.7	4

#	ARTICLE	IF	CITATIONS
181	Skeletal muscle insulin resistance: Is it important for the pathogenesis of Type 2 diabetes after all? Journal of Endocrinological Investigation, 2003, 26, 690-692.	3.3	3
182	Skeletal muscle AMP kinase as a target to prevent pathogenesis of Type 2 diabetes. Expert Review of Endocrinology and Metabolism, 2007, 2, 477-485.	2.4	1
183	Spatial insulin signalling in isolated skeletal muscle preparations. Journal of Cellular Biochemistry, 2010, 109, 943-949.	2.6	1
184	VALIDATION OF THEIR VITROINCUBATION OF EXTENSOR DIGITORUM LONGUS MUSCLE FROM MICE WITH A MATHEMATICAL MODEL. Journal of Biological Systems, 2010, 18, 687-707.	1.4	1
185	Turning the page. Diabetologia, 2015, 58, 2685-2687.	6.3	0
186	Diabetologia at 50: celebrating half a century of progress in diabetes research and care. Diabetologia, 2015, 58, 1685-1687.	6.3	0
187	Environmental Factors Contributing to the Regulation of Insulin Sensitivity in Type 2 Diabetic Patients. FASEB Journal, 2010, 24, 303.3.	0.5	0