Laurie J Goodyear

List of Publications by Year
in descending order

76 papers	8,600 citations	57758 44 h-index	79698 73 g-index
78 all docs	78 docs citations	78 times ranked	11900 citing authors

#	Article	IF	Citations
1	Brown adipose tissue regulates glucose homeostasis and insulin sensitivity. Journal of Clinical Investigation, 2013, 123, 215-223.	8.2	964
2	Exercise, Glucose Transport, and Insulin Sensitivity. Annual Review of Medicine, 1998, 49, 235-261.	12.2	874
3	Targeted disruption of the glucose transporter 4 selectively in muscle causes insulin resistance and glucose intolerance. Nature Medicine, 2000, 6, 924-928.	30.7	624
4	Diet and exercise signals regulate SIRT3 and activate AMPK and PGC-1Î± in skeletal muscle. Aging, 2009, 1, 771-783.	3.1	428
5	Ampk phosphorylation of Ulk1 is required for targeting of mitochondria to lysosomes in exercise-induced mitophagy. Nature Communications, 2017, 8, 548.	12.8	333
6	The cold-induced lipokine 12,13-diHOME promotes fatty acid transport into brown adipose tissue. Nature Medicine, 2017, 23, 631-637.	30.7	309
7	Exercise Effects on White Adipose Tissue: Beiging and Metabolic Adaptations. Diabetes, 2015, 64, 2361-2368.	0.6	268
8	A Novel Role for Subcutaneous Adipose Tissue in Exercise-Induced Improvements in Glucose Homeostasis. Diabetes, 2015, 64, 2002-2014.	0.6	248
9	Clonal analyses and gene profiling identify genetic biomarkers of the thermogenic potential of human brown and white preadipocytes. Nature Medicine, 2015, 21, 760-768.	30.7	240
10	AS160 Regulates Insulin- and Contraction-stimulated Glucose Uptake in Mouse Skeletal Muscle. Journal of Biological Chemistry, 2006, 281, 31478-31485.	3.4	232
11	Exercise and type 2 diabetes: molecular mechanisms regulating glucose uptake in skeletal muscle. American Journal of Physiology - Advances in Physiology Education, 2014, 38, 308-314.	1.6	227
12	12,13-diHOME: An Exercise-Induced Lipokine that Increases Skeletal Muscle Fatty Acid Uptake. Cell Metabolism, 2018, 27, 1111-1120.e3.	16.2	215
13	Skeletal Muscle-Selective Knockout of LKB1 Increases Insulin Sensitivity, Improves Glucose Homeostasis, and Decreases TRB3. Molecular and Cellular Biology, 2006, 26, 8217-8227.	2.3	185
14	Effects of exercise training on subcutaneous and visceral adipose tissue in normal- and high-fat diet-fed rats. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E495-E504.	3.5	183
15	AMP-activated Protein Kinase Î±2 Activity Is Not Essential for Contraction- and Hyperosmolarity-induced Glucose Transport in Skeletal Muscle. Journal of Biological Chemistry, 2005, 280, 39033-39041.	3.4	162
16	12-Lipoxygenase Regulates Cold Adaptation and Glucose Metabolism by Producing the Omega-3 Lipid 12-HEPE from Brown Fat. Cell Metabolism, 2019, 30, 768-783.e7.	16.2	132
17	TGF-Î²2 is an exercise-induced adipokine that regulates glucose and fatty acid metabolism. Nature Metabolism, 2019, 1, 291-303.	11.9	128
18	Micro <scp>RNA</scp> â€455 regulates brown adipogenesis via a novel <scp>HIF</scp> 1anâ€• <scp>AMPK</scp> â€•<scp>PGC</scp> 1Î± signaling network. EMBO Reports, 2015, 16, 1378-1393.	4.5	123

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19	Diminished skeletal muscle microRNA expression with aging is associated with attenuated muscle plasticity and inhibition of IGFâ€1 signaling. FASEB Journal, 2014, 28, 4133-4147.	0.5	122
20	Exercise Before and During Pregnancy Prevents the Deleterious Effects of Maternal High-Fat Feeding on Metabolic Health of Male Offspring. Diabetes, 2015, 64, 427-433.	0.6	119
21	Differential Role of Insulin/IGF-1 Receptor Signaling in Muscle Growth and Glucose Homeostasis. Cell Reports, 2015, 11, 1220-1235.	6.4	117
22	Î²-Cell Secretory Dysfunction in the Pathogenesis of Low Birth Weightâ€"Associated Diabetes. Diabetes, 2005, 54, 702-711.	0.6	110
23	Exercise regulation of adipose tissue. Adipocyte, 2016, 5, 153-162.	2.8	106
24	Exercise and Regulation of Carbohydrate Metabolism. Progress in Molecular Biology and Translational Science, 2015, 135, 17-37.	1.7	105
25	Marathon running transiently increases câ€Jun NH 2 â€terminal kinase and p38Î³ activities in human skeletal muscle. Journal of Physiology, 2000, 526, 663-669.	2.9	93
26	Exercise Training Induces Depot-Specific Adaptations to White and Brown Adipose Tissue. IScience, 2019, 11, 425-439.	4.1	91
27	Maternal Exercise Improves Glucose Tolerance in Female Offspring. Diabetes, 2017, 66, 2124-2136.	0.6	89
28	Eccentric exercise markedly increases c-Jun NH₂-terminal kinase activity in human skeletal muscle. Journal of Applied Physiology, 1999, 87, 1668-1673.	2.5	85
29	Increased Mitochondrial Activity in BMP7-Treated Brown Adipocytes, Due to Increased CPT1- and CD36-Mediated Fatty Acid Uptake. Antioxidants and Redox Signaling, 2013, 19, 243-257.	5.4	85
30	p38Î³ MAPK regulation of glucose transporter expression and glucose uptake in L6 myotubes and mouse skeletal muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 286, R342-R349.	1.8	82
31	Sucrose nonfermenting AMPK-related kinase (SNARK) mediates contraction-stimulated glucose transport in mouse skeletal muscle. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15541-15546.	7.1	82
32	Muscle-Adipose Tissue Cross Talk. Cold Spring Harbor Perspectives in Medicine, 2018, 8, a029801.	6.2	80
33	Paternal Exercise Improves Glucose Metabolism in Adult Offspring. Diabetes, 2018, 67, 2530-2540.	0.6	78
34	Tbx15 controls skeletal muscle fibre-type determination and muscle metabolism. Nature Communications, 2015, 6, 8054.	12.8	76
35	Skeletal muscle contractile activity in vitro stimulates mitogen-activated protein kinase signaling. American Journal of Physiology - Cell Physiology, 1999, 277, C701-C707.	4.6	69
36	Resistance to Aerobic Exercise Training Causes Metabolic Dysfunction and Reveals Novel Exercise-Regulated Signaling Networks. Diabetes, 2013, 62, 2717-2727.	0.6	68

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37	Lipidomic Adaptations in White and Brown Adipose Tissue in Response to Exercise Demonstrate Molecular Species-Specific Remodeling. Cell Reports, 2017, 18, 1558-1572.	6.4	68
38	FGF6 and FGF9 regulate UCP1 expression independent of brown adipogenesis. Nature Communications, 2020, 11, 1421.	12.8	67
39	AS160 Regulates Insulin- and Contraction-stimulated Glucose Uptake in Mouse Skeletal Muscle. Journal of Biological Chemistry, 2006, 281, 31478-31485.	3.4	66
40	Genetic model for the chronic activation of skeletal muscle AMP-activated protein kinase leads to glycogen accumulation. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E802-E811.	3.5	62
41	Functional role of AMP-activated protein kinase in the heart during exercise. FEBS Letters, 2005, 579, 2045-2050.	2.8	60
42	Effects of maternal and paternal exercise on offspring metabolism. Nature Metabolism, 2020, 2, 858-872.	11.9	59
43	Myo1c Regulates Glucose Uptake in Mouse Skeletal Muscle. Journal of Biological Chemistry, 2011, 286, 4133-4140.	3.4	50
44	Placental superoxide dismutase 3 mediates benefits of maternal exercise on offspring health. Cell Metabolism, 2021, 33, 939-956.e8.	16.2	49
45	Brown adipose tissue-derived MaR2 contributes to cold-induced resolution of inflammation. Nature Metabolism, 2022, 4, 775-790.	11.9	47
46	Decreased insulinâ€stimulated brown adipose tissue glucose uptake after shortâ€term exercise training in healthy middleâ€aged men. Diabetes, Obesity and Metabolism, 2017, 19, 1379-1388.	4.4	46
47	Exercise-induced 3â€²-sialyllactose in breast milk is a critical mediator to improve metabolic health and cardiac function in mouse offspring. Nature Metabolism, 2020, 2, 678-687.	11.9	46
48	Validity Assessment of 5 Day Repeated Forced-Swim Stress to Model Human Depression in Young-Adult C57BL/6J and BALB/cJ Mice. ENeuro, 2016, 3, ENEURO.0201-16.2016.	1.9	36
49	Voluntary wheel running promotes resilience to chronic social defeat stress in mice: a role for nucleus accumbens Î”FosB. Neuropsychopharmacology, 2018, 43, 1934-1942.	5.4	36
50	l-Alanine activates hepatic AMP-activated protein kinase and modulates systemic glucose metabolism. Molecular Metabolism, 2018, 17, 61-70.	6.5	33
51	Maternal and paternal exercise regulate offspring metabolic health and beta cell phenotype. BMJ Open Diabetes Research and Care, 2020, 8, e000890.	2.8	31
52	Exercise intensity regulates cytokine and klotho responses in men. Nutrition and Diabetes, 2021, 11, 5.	3.2	28
53	Overexpression of TRB3 in muscle alters muscle fiber type and improves exercise capacity in mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 306, R925-R933.	1.8	26
54	Exercise training reverses cancer-induced oxidative stress and decrease in muscle COPS2/TRIP15/ALIEN. Molecular Metabolism, 2020, 39, 101012.	6.5	25

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55	The AMPK-related kinase SNARK regulates muscle mass and myocyte survival. Journal of Clinical Investigation, 2015, 126, 560-570.	8.2	23
56	PHD3 Loss Promotes Exercise Capacity and Fat Oxidation in Skeletal Muscle. Cell Metabolism, 2020, 32, 215-228.e7.	16.2	22
57	Exercise Training Promotes Sex-Specific Adaptations in Mouse Inguinal White Adipose Tissue. Diabetes, 2021, 70, 1250-1264.	0.6	19
58	Moderate voluntary exercise attenuates the metabolic syndrome in melanocortin-4 receptor-deficient rats showing central dopaminergic dysregulation. Molecular Metabolism, 2015, 4, 692-705.	6.5	18
59	Postexercise improvement in glucose uptake occurs concomitant with greater Î³3-AMPK activation and AS160 phosphorylation in rat skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2018, 315, E859-E871.	3.5	18
60	Loss of FoxOs in muscle reveals sex-based differences in insulin sensitivity but mitigates diet-induced obesity. Molecular Metabolism, 2019, 30, 203-220.	6.5	17
61	Loss of BMP receptor type 1A in murine adipose tissue attenuates age-related onset of insulin resistance. Diabetologia, 2016, 59, 1769-1777.	6.3	16
62	Relationship of brown adipose tissue perfusion and function: a study through Î²2-adrenoreceptor stimulation. Journal of Applied Physiology, 2016, 120, 825-832.	2.5	16
63	The MicroRNA miR-696 is regulated by SNARK and reduces mitochondrial activity in mouse skeletal muscle through Pgc1Î± inhibition. Molecular Metabolism, 2021, 51, 101226.	6.5	12
64	Muscle-Specific Insulin Receptor Overexpression Protects Mice From Diet-Induced Glucose Intolerance but Leads to Postreceptor Insulin Resistance. Diabetes, 2020, 69, 2294-2309.	0.6	11
65	Maternal Exercise-Induced SOD3 Reverses the Deleterious Effects of Maternal High-Fat Diet on Offspring Metabolism Through Stabilization of H3K4me3 and Protection Against WDR82 Carbonylation. Diabetes, 2022, 71, 1170-1181.	0.6	11
66	The therapeutic potential of brown adipose tissue. Hepatobiliary Surgery and Nutrition, 2013, 2, 286-7.	1.5	9
67	Tribbles 3 regulates protein turnover in mouse skeletal muscle. Biochemical and Biophysical Research Communications, 2017, 493, 1236-1242.	2.1	8
68	Tribbles 3 inhibits brown adipocyte differentiation and function by suppressing insulin signaling. Biochemical and Biophysical Research Communications, 2016, 470, 783-791.	2.1	7
69	Maternal Exercise and Paternal Exercise Induce Distinct Metabolite Signatures in Offspring Tissues. Diabetes, 2022, 71, 2094-2105.	0.6	5
70	Contraction stimulates muscle glucose uptake independent of atypical PKC. Physiological Reports, 2015, 3, e12565.	1.7	4
71	Reduced sucrose nonfermenting AMPK-related kinase (SNARK) activity aggravates cancer-induced skeletal muscle wasting. Biomedicine and Pharmacotherapy, 2019, 117, 109197.	5.6	4
72	Sucrose nonfermenting AMPKâ€related kinase (SNARK) regulates exerciseâ€stimulated and ischemiaâ€stimulated glucose transport in the heart. Journal of Cellular Biochemistry, 2019, 120, 685-696.	2.6	4

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73	Effects of Streptozocin-Induced Diabetes and Islet Cell Transplantation on Insulin Signaling in Rat Skeletal Muscle. Endocrinology, 1999, 140, 106-111.	2.8	4
74	Grandmaternal exercise improves metabolic health of second-generation offspring. Molecular Metabolism, 2022, 60, 101490.	6.5	3
75	A Novel Role for Adipose Tissue in Exerciseâ€Induced Improvements in Glucose Homeostasis. FASEB Journal, 2012, 26, 1142.15.	0.5	0
76	Individuals with Acute Spinal Cord Injury Display Impaired Biomarkers of Cardiometabolic Health. FASEB Journal, 2022, 36, .	0.5	0