

Jonas Thue Treebak

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

6,505
citations

81434

41
h-index

78623

77
g-index

108
all docs

108
docs citations

108
times ranked

10234
citing authors

#	ARTICLE	IF	CITATIONS
1	Acute Exercise Remodels Promoter Methylation in Human Skeletal Muscle. <i>Cell Metabolism</i> , 2012, 15, 405-411.	7.2	729
2	A common Greenlandic TBC1D4 variant confers muscle insulin resistance and type 2 diabetes. <i>Nature</i> , 2014, 512, 190-193.	13.7	338
3	AMPK in skeletal muscle function and metabolism. <i>FASEB Journal</i> , 2018, 32, 1741-1777.	0.2	289
4	AMPK-Mediated AS160 Phosphorylation in Skeletal Muscle Is Dependent on AMPK Catalytic and Regulatory Subunits. <i>Diabetes</i> , 2006, 55, 2051-2058.	0.3	239
5	Deep Proteomics of Mouse Skeletal Muscle Enables Quantitation of Protein Isoforms, Metabolic Pathways, and Transcription Factors*. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 841-853.	2.5	234
6	A randomized placebo-controlled clinical trial of nicotinamide riboside in obese men: safety, insulin-sensitivity, and lipid-mobilizing effects. <i>American Journal of Clinical Nutrition</i> , 2018, 108, 343-353.	2.2	195
7	AMPK controls exercise endurance, mitochondrial oxidative capacity, and skeletal muscle integrity. <i>FASEB Journal</i> , 2014, 28, 3211-3224.	0.2	182
8	Time of Exercise Specifies the Impact on Muscle Metabolic Pathways and Systemic Energy Homeostasis. <i>Cell Metabolism</i> , 2019, 30, 92-110.e4.	7.2	176
9	Effects of Endurance Exercise Training on Insulin Signaling in Human Skeletal Muscle. <i>Diabetes</i> , 2007, 56, 2093-2102.	0.3	162
10	Role of AMPK α 2 in basal, training-, and AICAR-induced GLUT4, hexokinase II, and mitochondrial protein expression in mouse muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E331-E339.	1.8	147
11	Enhanced Muscle Insulin Sensitivity After Contraction/Exercise Is Mediated by AMPK. <i>Diabetes</i> , 2017, 66, 598-612.	0.3	137
12	Genetic disruption of AMPK signaling abolishes both contraction- and insulin-stimulated TBC1D1 phosphorylation and 14-3-3 binding in mouse skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 297, E665-E675.	1.8	136
13	Impaired Insulin-Stimulated Phosphorylation of Akt and AS160 in Skeletal Muscle of Women With Polycystic Ovary Syndrome Is Reversed by Pioglitazone Treatment. <i>Diabetes</i> , 2008, 57, 357-366.	0.3	130
14	Molecular Mechanism by Which AMP-Activated Protein Kinase Activation Promotes Glycogen Accumulation in Muscle. <i>Diabetes</i> , 2011, 60, 766-774.	0.3	129
15	Cytosolic ROS production by NADPH oxidase 2 regulates muscle glucose uptake during exercise. <i>Nature Communications</i> , 2019, 10, 4623.	5.8	128
16	AS160 phosphorylation is associated with activation of α 1- but not α 3-AMPK trimeric complex in skeletal muscle during exercise in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E715-E722.	1.8	115
17	Prior AICAR Stimulation Increases Insulin Sensitivity in Mouse Skeletal Muscle in an AMPK-Dependent Manner. <i>Diabetes</i> , 2015, 64, 2042-2055.	0.3	115
18	Impaired insulin-induced site-specific phosphorylation of TBC1 domain family, member 4 (TBC1D4) in skeletal muscle of type 2 diabetes patients is restored by endurance exercise-training. <i>Diabetologia</i> , 2011, 54, 157-167.	2.9	110

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19	Potential role of TBC1D4 in enhanced post-exercise insulin action in human skeletal muscle. <i>Diabetologia</i> , 2009, 52, 891-900.	2.9	109
20	Nicotinamide riboside does not alter mitochondrial respiration, content or morphology in skeletal muscle from obese and insulin-resistant men. <i>Journal of Physiology</i> , 2020, 598, 731-754.	1.3	97
21	Acute exercise and physiological insulin induce distinct phosphorylation signatures on TBC1D1 and TBC1D4 proteins in human skeletal muscle. <i>Journal of Physiology</i> , 2014, 592, 351-375.	1.3	95
22	A-769662 activates AMPK ¹ -containing complexes but induces glucose uptake through a PI3-kinase-dependent pathway in mouse skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 297, C1041-C1052.	2.1	93
23	GLUT4 and Glycogen Synthase Are Key Players in Bed Rest-Induced Insulin Resistance. <i>Diabetes</i> , 2012, 61, 1090-1099.	0.3	91
24	Identification of a novel phosphorylation site on TBC1D4 regulated by AMP-activated protein kinase in skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 298, C377-C385.	2.1	86
25	Atlas of exercise metabolism reveals time-dependent signatures of metabolic homeostasis. <i>Cell Metabolism</i> , 2022, 34, 329-345.e8.	7.2	86
26	Sucrose nonfermenting AMPK-related kinase (SNARK) mediates contraction-stimulated glucose transport in mouse skeletal muscle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15541-15546.	3.3	82
27	AMP-activated protein kinase regulates nicotinamide phosphoribosyl transferase expression in skeletal muscle. <i>Journal of Physiology</i> , 2013, 591, 5207-5220.	1.3	81
28	Genetic impairment of AMPK ² signaling does not reduce muscle glucose uptake during treadmill exercise in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 297, E924-E934.	1.8	78
29	Regulation of autophagy in human skeletal muscle: effects of exercise, exercise training and insulin stimulation. <i>Journal of Physiology</i> , 2016, 594, 745-761.	1.3	78
30	AMP-activated protein kinase controls exercise training- and AICAR-induced increases in SIRT3 and MnSOD. <i>Frontiers in Physiology</i> , 2015, 6, 85.	1.3	71
31	Lipolysis drives expression of the constitutively active receptor GPR3 to induce adipose thermogenesis. <i>Cell</i> , 2021, 184, 3502-3518.e33.	13.5	68
32	Glucagon acutely regulates hepatic amino acid catabolism and the effect may be disturbed by steatosis. <i>Molecular Metabolism</i> , 2020, 42, 101080.	3.0	66
33	Skeletal muscle O-GlcNAc transferase is important for muscle energy homeostasis and whole-body insulin sensitivity. <i>Molecular Metabolism</i> , 2018, 11, 160-177.	3.0	60
34	Aerobic and resistance exercise training reverses age-dependent decline in NAD ⁺ salvage capacity in human skeletal muscle. <i>Physiological Reports</i> , 2019, 7, e14139.	0.7	59
35	Insulin resistance after a 72-h fast is associated with impaired AS160 phosphorylation and accumulation of lipid and glycogen in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 302, E190-E200.	1.8	58
36	Two weeks of metformin treatment induces AMPK-dependent enhancement of insulin-stimulated glucose uptake in mouse soleus muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 306, E1099-E1109.	1.8	58

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37	Effects of Nicotinamide Riboside on Endocrine Pancreatic Function and Incretin Hormones in Nondiabetic Men With Obesity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019, 104, 5703-5714.	1.8	57
38	NAMPT-mediated NAD biosynthesis is indispensable for adipose tissue plasticity and development of obesity. <i>Molecular Metabolism</i> , 2018, 11, 178-188.	3.0	55
39	Contraction and AICAR Stimulate IL-6 Vesicle Depletion From Skeletal Muscle Fibers In Vivo. <i>Diabetes</i> , 2013, 62, 3081-3092.	0.3	53
40	Sucrose Counteracts the Anti-Inflammatory Effect of Fish Oil in Adipose Tissue and Increases Obesity Development in Mice. <i>PLoS ONE</i> , 2011, 6, e21647.	1.1	47
41	Biotin starvation causes mitochondrial protein hyperacetylation and partial rescue by the SIRT3-like deacetylase Hst4p. <i>Nature Communications</i> , 2015, 6, 7726.	5.8	47
42	Disrupted circadian oscillations in type 2 diabetes are linked to altered rhythmic mitochondrial metabolism in skeletal muscle. <i>Science Advances</i> , 2021, 7, eabi9654.	4.7	44
43	The aromatic amino acid sensor GPR142 controls metabolism through balanced regulation of pancreatic and gut hormones. <i>Molecular Metabolism</i> , 2019, 19, 49-64.	3.0	43
44	Perturbations in the p53/miR-34a/SIRT1 pathway in the R6/2 Huntington's disease model. <i>Molecular and Cellular Neurosciences</i> , 2018, 88, 118-129.	1.0	41
45	Role of Adenosine 5'-Monophosphate-Activated Protein Kinase in Interleukin-6 Release from Isolated Mouse Skeletal Muscle. <i>Endocrinology</i> , 2009, 150, 600-606.	1.4	40
46	Role of Adenosine 5'-Monophosphate-Activated Protein Kinase Subunits in Skeletal Muscle Mammalian Target of Rapamycin Signaling. <i>Molecular Endocrinology</i> , 2008, 22, 1105-1112.	3.7	39
47	Impairments in Site-Specific AS160 Phosphorylation and Effects of Exercise Training. <i>Diabetes</i> , 2013, 62, 3437-3447.	0.3	39
48	Skeletal Muscle Insulin Sensitivity Show Circadian Rhythmicity Which Is Independent of Exercise Training Status. <i>Frontiers in Physiology</i> , 2018, 9, 1198.	1.3	37
49	Perturbations of NAD ⁺ salvage systems impact mitochondrial function and energy homeostasis in mouse myoblasts and intact skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 314, E377-E395.	1.8	36
50	Insulin stimulation regulates AS160 and TBC1D1 phosphorylation sites in human skeletal muscle. <i>Nutrition and Diabetes</i> , 2013, 3, e74-e74.	1.5	35
51	Hepatic NAD ⁺ levels and NAMPT abundance are unaffected during prolonged high-fat diet consumption in C57BL/6J BomTac mice. <i>Molecular and Cellular Endocrinology</i> , 2018, 473, 245-256.	1.6	35
52	Lack of AMPK α 2 enhances pyruvate dehydrogenase activity during exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 293, E1242-E1249.	1.8	33
53	Mitochondrial function in liver cells is resistant to perturbations in NAD ⁺ salvage capacity. <i>Journal of Biological Chemistry</i> , 2019, 294, 13304-13326.	1.6	33
54	ARDD 2020: from aging mechanisms to interventions. <i>Aging</i> , 2020, 12, 24484-24503.	1.4	32

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55	Exercise in rats does not alter hypothalamic AMP-activated protein kinase activity. <i>Biochemical and Biophysical Research Communications</i> , 2005, 329, 719-725.	1.0	30
56	Hepatic NAD salvage pathway is enhanced in mice on a high-fat diet. <i>Molecular and Cellular Endocrinology</i> , 2015, 412, 65-72.	1.6	29
57	Sustained AS160 and TBC1D1 phosphorylations in human skeletal muscle 30 min after a single bout of exercise. <i>Journal of Applied Physiology</i> , 2014, 117, 289-296.	1.2	28
58	Mass-spectrometry-based proteomics reveals mitochondrial supercomplexome plasticity. <i>Cell Reports</i> , 2021, 35, 109180.	2.9	28
59	AMPK and Insulin Action - Responses to Ageing and High Fat Diet. <i>PLoS ONE</i> , 2013, 8, e62338.	1.1	28
60	Electrical pulse stimulation induces differential responses in insulin action in myotubes from severely obese individuals. <i>Journal of Physiology</i> , 2019, 597, 449-466.	1.3	27
61	Nampt controls skeletal muscle development by maintaining Ca ²⁺ homeostasis and mitochondrial integrity. <i>Molecular Metabolism</i> , 2021, 53, 101271.	3.0	27
62	Investigation of the specificity and mechanism of action of the ULK1/AMPK inhibitor SBI-0206965. <i>Biochemical Journal</i> , 2021, 478, 2977-2997.	1.7	26
63	Comparative analysis of oral and intraperitoneal glucose tolerance tests in mice. <i>Molecular Metabolism</i> , 2022, 57, 101440.	3.0	25
64	Lysates of <i>Methylococcus capsulatus</i> Bath induce a lean-like microbiota, intestinal FoxP3+ROR γ t+IL-17+ Tregs and improve metabolism. <i>Nature Communications</i> , 2021, 12, 1093.	5.8	24
65	Dietary fat drives whole-body insulin resistance and promotes intestinal inflammation independent of body weight gain. <i>Metabolism: Clinical and Experimental</i> , 2016, 65, 1706-1719.	1.5	22
66	Fasting and ghrelin-induced food intake is regulated by NAMPT in the hypothalamus. <i>Acta Physiologica</i> , 2020, 228, e13437.	1.8	22
67	Role of AMP-Activated Protein Kinase for Regulating Post-exercise Insulin Sensitivity. <i>Exs</i> , 2016, 107, 81-126.	1.4	21
68	ADAMTS9 Regulates Skeletal Muscle Insulin Sensitivity Through Extracellular Matrix Alterations. <i>Diabetes</i> , 2019, 68, 502-514.	0.3	20
69	Hepatocyte-specific perturbation of NAD ⁺ biosynthetic pathways in mice induces reversible nonalcoholic steatohepatitis-like phenotypes. <i>Journal of Biological Chemistry</i> , 2021, 297, 101388.	1.6	20
70	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.	3.3	19
71	NAD ⁺ and NAFLD – caution, causality and careful optimism. <i>Journal of Physiology</i> , 2022, 600, 1135-1154.	1.3	19
72	Dietary Protein Restriction Improves Metabolic Dysfunction in Patients with Metabolic Syndrome in a Randomized, Controlled Trial. <i>Nutrients</i> , 2022, 14, 2670.	1.7	19

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73	An abundant biliary metabolite derived from dietary omega-3 polyunsaturated fatty acids regulates triglycerides. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	18
74	Voluntary wheel running in the late dark phase ameliorates diet-induced obesity in mice without altering insulin action. <i>Journal of Applied Physiology</i> , 2019, 126, 993-1005.	1.2	17
75	Discovery of thymosin β^4 as a human exerkin and growth factor. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 321, C770-C778.	2.1	16
76	Age-Dependent Decline of NAD ⁺ —Universal Truth or Confounded Consensus?. <i>Nutrients</i> , 2022, 14, 101.	1.7	16
77	Compound- and fiber type-selective requirement of AMPK β^3 for insulin-independent glucose uptake in skeletal muscle. <i>Molecular Metabolism</i> , 2021, 51, 101228.	3.0	14
78	5 α -AMP Activated Protein Kinase is Involved in the Regulation of Myocardial β^2 -Oxidative Capacity in Mice. <i>Frontiers in Physiology</i> , 2012, 3, 33.	1.3	12
79	Age-dependent alterations of glucose clearance and homeostasis are temporally separated and modulated by dietary fat. <i>Journal of Nutritional Biochemistry</i> , 2018, 54, 66-76.	1.9	12
80	Genes controlling the activation of natural killer lymphocytes are epigenetically remodeled in intestinal cells from germ-free mice. <i>FASEB Journal</i> , 2019, 33, 2719-2731.	0.2	12
81	Intravenous nicotinamide riboside elevates mouse skeletal muscle NAD ⁺ without impacting respiratory capacity or insulin sensitivity. <i>IScience</i> , 2022, 25, 103863.	1.9	12
82	Age-dependent transition from islet insulin hypersecretion to hyposecretion in mice with the long QT-syndrome loss-of-function mutation <i>Kcnq1-A340V</i> . <i>Scientific Reports</i> , 2021, 11, 12253.	1.6	10
83	Beta-Hydroxybutyrate Suppresses Hepatic Production of the Ghrelin Receptor Antagonist LEAP2. <i>Endocrinology</i> , 2022, 163, .	1.4	10
84	Role of 5 α -AMP-activated protein kinase in skeletal muscle. <i>International Journal of Obesity</i> , 2008, 32, S13-S17.	1.6	9
85	Fiber type-specific effects of acute exercise on insulin-stimulated AS160 phosphorylation in insulin-resistant rat skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 317, E984-E998.	1.8	8
86	Sevoflurane Impairs Insulin Secretion and Tissue-Specific Glucose Uptake <i>In Vivo</i> . <i>Basic and Clinical Pharmacology and Toxicology</i> , 2018, 123, 732-738.	1.2	7
87	Assessment of mouse liver [1-13C]pyruvate metabolism by dynamic hyperpolarized MRS. <i>Journal of Endocrinology</i> , 2019, 242, 251-260.	1.2	7
88	Protocol for qPCR analysis that corrects for cDNA amplification efficiency. <i>STAR Protocols</i> , 2022, 3, 101515.	0.5	7
89	Dynamic interplay between Afadin S1795 phosphorylation and diet regulates glucose homeostasis in obese mice. <i>Journal of Physiology</i> , 2021, .	1.3	4
90	Exercise effects on β^3 -AMPK activity, Akt substrate of 160 kDa phosphorylation, and glucose uptake in muscle of normal and insulin-resistant female rats. <i>Journal of Applied Physiology</i> , 2022, 132, 140-153.	1.2	4

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91	Ellagic acid prevents myocardial infarction-induced left ventricular diastolic dysfunction in ovariectomized rats. <i>Journal of Nutritional Biochemistry</i> , 2022, 105, 108990.	1.9	4
92	Underpowered or negative? A crucial distinction. <i>Diabetologia</i> , 2019, 62, 1094-1095.	2.9	2
93	Ablation of <i>Nampt</i> in AgRP neurons leads to neurodegeneration and impairs fasting and ghrelin-mediated food intake. <i>FASEB Journal</i> , 2021, 35, e21450.	0.2	2
94	Fasting potentiates insulin-mediated glucose uptake in rested and prior-contracted rat skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2022, 322, E425-E435.	1.8	2
95	B31...Sirt1 expression, regulation and activity in R6/2 mice. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, A20.1-A20.	0.9	1
96	GLUT4 and Glycogen Synthase Are Key Players in Bed Rest-Induced Insulin Resistance. <i>Diabetes</i> 2012;61:1090-1099. <i>Diabetes</i> , 2014, 63, 3159-3159.	0.3	0
97	Chronic AICAR treatment, but not voluntary exercise training, increases nicotinamide phosphoribosyl transferase (Nampt) protein expression in an AMPK-dependent manner in mouse quadriceps muscle. <i>FASEB Journal</i> , 2011, 25, 1059.9.	0.2	0
98	AMPK regulates contraction-induced glucose uptake in situ but not ex vivo. <i>FASEB Journal</i> , 2013, 27, 1202.12.	0.2	0
99	Exercise-induced upregulation of skeletal muscle Nampt protein is independent of AMP-activated protein kinase. <i>FASEB Journal</i> , 2013, 27, lb806.	0.2	0
100	Atlas of Exercise Metabolism Reveals Time-Dependent Signatures of Metabolic Homeostasis. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
101	OR03-06 NAD ⁺ Availability Modulates 11 β -HSD1-Mediated Glucocorticoid Regeneration in Mouse Skeletal Muscle. <i>Journal of the Endocrine Society</i> , 2020, 4, .	0.1	0