Jonas Thue Treebak

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7893598/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Acute Exercise Remodels Promoter Methylation in Human Skeletal Muscle. Cell Metabolism, 2012, 15, 405-411.	16.2	729
2	A common Greenlandic TBC1D4 variant confers muscle insulin resistance and type 2 diabetes. Nature, 2014, 512, 190-193.	27.8	338
3	AMPK in skeletal muscle function and metabolism. FASEB Journal, 2018, 32, 1741-1777.	0.5	289
4	AMPK-Mediated AS160 Phosphorylation in Skeletal Muscle Is Dependent on AMPK Catalytic and Regulatory Subunits. Diabetes, 2006, 55, 2051-2058.	0.6	239
5	Deep Proteomics of Mouse Skeletal Muscle Enables Quantitation of Protein Isoforms, Metabolic Pathways, and Transcription Factors*. Molecular and Cellular Proteomics, 2015, 14, 841-853.	3.8	234
6	A randomized placebo-controlled clinical trial of nicotinamide riboside in obese men: safety, insulin-sensitivity, and lipid-mobilizing effects. American Journal of Clinical Nutrition, 2018, 108, 343-353.	4.7	195
7	AMPK controls exercise endurance, mitochondrial oxidative capacity, and skeletal muscle integrity. FASEB Journal, 2014, 28, 3211-3224.	0.5	182
8	Time of Exercise Specifies the Impact on Muscle Metabolic Pathways and Systemic Energy Homeostasis. Cell Metabolism, 2019, 30, 92-110.e4.	16.2	176
9	Effects of Endurance Exercise Training on Insulin Signaling in Human Skeletal Muscle. Diabetes, 2007, 56, 2093-2102.	0.6	162
10	Role of AMPKα2 in basal, training-, and AICAR-induced GLUT4, hexokinase II, and mitochondrial protein expression in mouse muscle. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E331-E339.	3.5	147
11	Enhanced Muscle Insulin Sensitivity After Contraction/Exercise Is Mediated by AMPK. Diabetes, 2017, 66, 598-612.	0.6	137
12	Genetic disruption of AMPK signaling abolishes both contraction- and insulin-stimulated TBC1D1 phosphorylation and 14-3-3 binding in mouse skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E665-E675.	3.5	136
13	Impaired Insulin-Stimulated Phosphorylation of Akt and AS160 in Skeletal Muscle of Women With Polycystic Ovary Syndrome Is Reversed by Pioglitazone Treatment. Diabetes, 2008, 57, 357-366.	0.6	130
14	Molecular Mechanism by Which AMP-Activated Protein Kinase Activation Promotes Glycogen Accumulation in Muscle. Diabetes, 2011, 60, 766-774.	0.6	129
15	Cytosolic ROS production by NADPH oxidase 2 regulates muscle glucose uptake during exercise. Nature Communications, 2019, 10, 4623.	12.8	128
16	AS160 phosphorylation is associated with activation of α2β2γ1- but not α2β2γ3-AMPK trimeric complex in skeletal muscle during exercise in humans. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E715-E722.	3.5	115
17	Prior AICAR Stimulation Increases Insulin Sensitivity in Mouse Skeletal Muscle in an AMPK-Dependent Manner. Diabetes, 2015, 64, 2042-2055.	0.6	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. Diabetologia, 2011, 54, 157-167.	6.3	110

#	Article	IF	CITATIONS
19	Potential role of TBC1D4 in enhanced post-exercise insulin action in human skeletal muscle. Diabetologia, 2009, 52, 891-900.	6.3	109
20	Nicotinamide riboside does not alter mitochondrial respiration, content or morphology in skeletal muscle from obese and insulinâ€resistant men. Journal of Physiology, 2020, 598, 731-754.	2.9	97
21	Acute exercise and physiological insulin induce distinct phosphorylation signatures on TBC1D1 and TBC1D4 proteins in human skeletal muscle. Journal of Physiology, 2014, 592, 351-375.	2.9	95
22	A-769662 activates AMPK β ₁ -containing complexes but induces glucose uptake through a PI3-kinase-dependent pathway in mouse skeletal muscle. American Journal of Physiology - Cell Physiology, 2009, 297, C1041-C1052.	4.6	93
23	GLUT4 and Glycogen Synthase Are Key Players in Bed Rest–Induced Insulin Resistance. Diabetes, 2012, 61, 1090-1099.	0.6	91
24	Identification of a novel phosphorylation site on TBC1D4 regulated by AMP-activated protein kinase in skeletal muscle. American Journal of Physiology - Cell Physiology, 2010, 298, C377-C385.	4.6	86
25	Atlas of exercise metabolism reveals time-dependent signatures of metabolic homeostasis. Cell Metabolism, 2022, 34, 329-345.e8.	16.2	86
26	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
27	AMPâ€activated protein kinase regulates nicotinamide phosphoribosyl transferase expression in skeletal muscle. Journal of Physiology, 2013, 591, 5207-5220.	2.9	81
28	Genetic impairment of AMPKα2 signaling does not reduce muscle glucose uptake during treadmill exercise in mice. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E924-E934.	3.5	78
29	Regulation of autophagy in human skeletal muscle: effects of exercise, exercise training and insulin stimulation. Journal of Physiology, 2016, 594, 745-761.	2.9	78
30	AMP-activated protein kinase controls exercise training- and AICAR-induced increases in SIRT3 and MnSOD. Frontiers in Physiology, 2015, 6, 85.	2.8	71
31	Lipolysis drives expression of the constitutively active receptor GPR3 to induce adipose thermogenesis. Cell, 2021, 184, 3502-3518.e33.	28.9	68
32	Glucagon acutely regulates hepatic amino acid catabolism and the effect may be disturbed by steatosis. Molecular Metabolism, 2020, 42, 101080.	6.5	66
33	Skeletal muscle O-GlcNAc transferase is important for muscle energy homeostasis and whole-body insulin sensitivity. Molecular Metabolism, 2018, 11, 160-177.	6.5	60
34	Aerobic and resistance exercise training reverses ageâ€dependent decline in NAD ⁺ salvage capacity in human skeletal muscle. Physiological Reports, 2019, 7, e14139.	1.7	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. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E190-E200.	3.5	58
36	Two weeks of metformin treatment induces AMPK-dependent enhancement of insulin-stimulated glucose uptake in mouse soleus muscle. American Journal of Physiology - Endocrinology and Metabolism, 2014, 306, E1099-E1109.	3.5	58

#	Article	IF	CITATIONS
37	Effects of Nicotinamide Riboside on Endocrine Pancreatic Function and Incretin Hormones in Nondiabetic Men With Obesity. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 5703-5714.	3.6	57
38	NAMPT-mediated NAD biosynthesis is indispensable for adipose tissue plasticity and development of obesity. Molecular Metabolism, 2018, 11, 178-188.	6.5	55
39	Contraction and AICAR Stimulate IL-6 Vesicle Depletion From Skeletal Muscle Fibers In Vivo. Diabetes, 2013, 62, 3081-3092.	0.6	53
40	Sucrose Counteracts the Anti-Inflammatory Effect of Fish Oil in Adipose Tissue and Increases Obesity Development in Mice. PLoS ONE, 2011, 6, e21647.	2.5	47
41	Biotin starvation causes mitochondrial protein hyperacetylation and partial rescue by the SIRT3-like deacetylase Hst4p. Nature Communications, 2015, 6, 7726.	12.8	47
42	Disrupted circadian oscillations in type 2 diabetes are linked to altered rhythmic mitochondrial metabolism in skeletal muscle. Science Advances, 2021, 7, eabi9654.	10.3	44
43	The aromatic amino acid sensor GPR142 controls metabolism through balanced regulation of pancreatic and gut hormones. Molecular Metabolism, 2019, 19, 49-64.	6.5	43
44	Perturbations in the p53/miR-34a/SIRT1 pathway in the R6/2 Huntington's disease model. Molecular and Cellular Neurosciences, 2018, 88, 118-129.	2.2	41
45	Role of Adenosine 5′-Monophosphate-Activated Protein Kinase in Interleukin-6 Release from Isolated Mouse Skeletal Muscle. Endocrinology, 2009, 150, 600-606.	2.8	40
46	Role of Adenosine 5′-Monophosphate-Activated Protein Kinase Subunits in Skeletal Muscle Mammalian Target of Rapamycin Signaling. Molecular Endocrinology, 2008, 22, 1105-1112.	3.7	39
47	Impairments in Site-Specific AS160 Phosphorylation and Effects of Exercise Training. Diabetes, 2013, 62, 3437-3447.	0.6	39
48	Skeletal Muscle Insulin Sensitivity Show Circadian Rhythmicity Which Is Independent of Exercise Training Status. Frontiers in Physiology, 2018, 9, 1198.	2.8	37
49	Perturbations of NAD ⁺ salvage systems impact mitochondrial function and energy homeostasis in mouse myoblasts and intact skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2018, 314, E377-E395.	3.5	36
50	Insulin stimulation regulates AS160 and TBC1D1 phosphorylation sites in human skeletal muscle. Nutrition and Diabetes, 2013, 3, e74-e74.	3.2	35
51	Hepatic NAD+ levels and NAMPT abundance are unaffected during prolonged high-fat diet consumption in C57BL/6JBomTac mice. Molecular and Cellular Endocrinology, 2018, 473, 245-256.	3.2	35
52	Lack of AMPKα2 enhances pyruvate dehydrogenase activity during exercise. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E1242-E1249.	3.5	33
53	Mitochondrial function in liver cells is resistant to perturbations in NAD+ salvage capacity. Journal of Biological Chemistry, 2019, 294, 13304-13326.	3.4	33
54	ARDD 2020: from aging mechanisms to interventions. Aging, 2020, 12, 24484-24503.	3.1	32

#	Article	IF	CITATIONS
55	Exercise in rats does not alter hypothalamic AMP-activated protein kinase activity. Biochemical and Biophysical Research Communications, 2005, 329, 719-725.	2.1	30
56	Hepatic NAD salvage pathway is enhanced in mice on a high-fat diet. Molecular and Cellular Endocrinology, 2015, 412, 65-72.	3.2	29
57	Sustained AS160 and TBC1D1 phosphorylations in human skeletal muscle 30 min after a single bout of exercise. Journal of Applied Physiology, 2014, 117, 289-296.	2.5	28
58	Mass-spectrometry-based proteomics reveals mitochondrial supercomplexome plasticity. Cell Reports, 2021, 35, 109180.	6.4	28
59	AMPK and Insulin Action - Responses to Ageing and High Fat Diet. PLoS ONE, 2013, 8, e62338.	2.5	28
60	Electrical pulse stimulation induces differential responses in insulin action in myotubes from severely obese individuals. Journal of Physiology, 2019, 597, 449-466.	2.9	27
61	Nampt controls skeletal muscle development by maintaining Ca2+ homeostasis and mitochondrial integrity. Molecular Metabolism, 2021, 53, 101271.	6.5	27
62	Investigation of the specificity and mechanism of action of the ULK1/AMPK inhibitor SBI-0206965. Biochemical Journal, 2021, 478, 2977-2997.	3.7	26
63	Comparative analysis of oral and intraperitoneal glucose tolerance tests in mice. Molecular Metabolism, 2022, 57, 101440.	6.5	25
64	Lysates of Methylococcus capsulatus Bath induce a lean-like microbiota, intestinal FoxP3+RORγt+IL-17+ Tregs and improve metabolism. Nature Communications, 2021, 12, 1093.	12.8	24
65	Dietary fat drives whole-body insulin resistance and promotes intestinal inflammation independent of body weight gain. Metabolism: Clinical and Experimental, 2016, 65, 1706-1719.	3.4	22
66	Fasting―and ghrelinâ€induced food intake is regulated by NAMPT in the hypothalamus. Acta Physiologica, 2020, 228, e13437.	3.8	22
67	Role of AMP-Activated Protein Kinase for Regulating Post-exercise Insulin Sensitivity. Exs, 2016, 107, 81-126.	1.4	21
68	ADAMTS9 Regulates Skeletal Muscle Insulin Sensitivity Through Extracellular Matrix Alterations. Diabetes, 2019, 68, 502-514.	0.6	20
69	Hepatocyte-specific perturbation of NAD+ biosynthetic pathways in mice induces reversible nonalcoholic steatohepatitis–like phenotypes. Journal of Biological Chemistry, 2021, 297, 101388.	3.4	20
70	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.	7.1	19
71	NAD ⁺ and NAFLD – caution, causality and careful optimism. Journal of Physiology, 2022, 600, 1135-1154.	2.9	19
72	Dietary Protein Restriction Improves Metabolic Dysfunction in Patients with Metabolic Syndrome in a Randomized, Controlled Trial. Nutrients, 2022, 14, 2670.	4.1	19

#	Article	IF	CITATIONS
73	An abundant biliary metabolite derived from dietary omega-3 polyunsaturated fatty acids regulates triglycerides. Journal of Clinical Investigation, 2021, 131, .	8.2	18
74	Voluntary wheel running in the late dark phase ameliorates diet-induced obesity in mice without altering insulin action. Journal of Applied Physiology, 2019, 126, 993-1005.	2.5	17
75	Discovery of thymosin β4 as a human exerkine and growth factor. American Journal of Physiology - Cell Physiology, 2021, 321, C770-C778.	4.6	16
76	Age-Dependent Decline of NAD+—Universal Truth or Confounded Consensus?. Nutrients, 2022, 14, 101.	4.1	16
77	Compound- and fiber type-selective requirement of AMPKγ3 for insulin-independent glucose uptake in skeletal muscle. Molecular Metabolism, 2021, 51, 101228.	6.5	14
78	5′-AMP Activated Protein Kinase is Involved in the Regulation of Myocardial β-Oxidative Capacity in Mice. Frontiers in Physiology, 2012, 3, 33.	2.8	12
79	Age-dependent alterations of glucose clearance and homeostasis are temporally separated and modulated by dietary fat. Journal of Nutritional Biochemistry, 2018, 54, 66-76.	4.2	12
80	Genes controlling the activation of natural killer lymphocytes are epigenetically remodeled in intestinal cells from germâ€free mice. FASEB Journal, 2019, 33, 2719-2731.	0.5	12
81	Intravenous nicotinamide riboside elevates mouse skeletal muscle NAD+ without impacting respiratory capacity or insulin sensitivity. IScience, 2022, 25, 103863.	4.1	12
82	Age-dependent transition from islet insulin hypersecretion to hyposecretion in mice with the long QT-syndrome loss-of-function mutation Kcnq1-A340V. Scientific Reports, 2021, 11, 12253.	3.3	10
83	Beta-Hydroxybutyrate Suppresses Hepatic Production of the Ghrelin Receptor Antagonist LEAP2. Endocrinology, 2022, 163, .	2.8	10
84	Role of 5′AMP-activated protein kinase in skeletal muscle. International Journal of Obesity, 2008, 32, S13-S17.	3.4	9
85	Fiber type-specific effects of acute exercise on insulin-stimulated AS160 phosphorylation in insulin-resistant rat skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2019, 317, E984-E998.	3.5	8
86	Sevoflurane Impairs Insulin Secretion and Tissue‧pecific Glucose Uptake <i>In Vivo</i> . Basic and Clinical Pharmacology and Toxicology, 2018, 123, 732-738.	2.5	7
87	Assessment of mouse liver [1-13C]pyruvate metabolism by dynamic hyperpolarized MRS. Journal of Endocrinology, 2019, 242, 251-260.	2.6	7
88	Protocol for qPCR analysis that corrects for cDNA amplification efficiency. STAR Protocols, 2022, 3, 101515.	1.2	7
89	Dynamic interplay between Afadin S1795 phosphorylation and diet regulates glucose homeostasis in obese mice. Journal of Physiology, 2021, , .	2.9	4
90	Exercise effects on γ3-AMPK activity, Akt substrate of 160 kDa phosphorylation, and glucose uptake in muscle of normal and insulin-resistant female rats. Journal of Applied Physiology, 2022, 132, 140-153.	2.5	4

6

#	ARTICLE	IF	CITATIONS
91	Ellagic acid prevents myocardial infarction-induced left ventricular diastolic dysfunction in ovariectomized rats. Journal of Nutritional Biochemistry, 2022, 105, 108990.	4.2	4
92	Underpowered or negative? A crucial distinction. Diabetologia, 2019, 62, 1094-1095.	6.3	2
93	Ablation of <i>Nampt</i> in AgRP neurons leads to neurodegeneration and impairs fasting―and ghrelinâ€mediated food intake. FASEB Journal, 2021, 35, e21450.	0.5	2
94	Fasting potentiates insulin-mediated glucose uptake in rested and prior-contracted rat skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2022, 322, E425-E435.	3.5	2
95	B31â€Sirt1 expression, regulation and activity in R6/2 mice. Journal of Neurology, Neurosurgery and Psychiatry, 2016, 87, A20.1-A20.	1.9	1
96	GLUT4 and Glycogen Synthase Are Key Players in Bed Rest-Induced Insulin Resistance. Diabetes 2012;61:1090–1099. Diabetes, 2014, 63, 3159-3159.	0.6	0
97	Chronic AICAR treatment, but not voluntary exercise training, increases nicotinamide phosphoribosyl transferase (Nampt) protein expression in an AMPKâ€dependent manner in mouse quadriceps muscle. FASEB Journal, 2011, 25, 1059.9.	0.5	0
98	AMPK regulates contractionâ€induced glucose uptake in situ but not ex vivo. FASEB Journal, 2013, 27, 1202.12.	0.5	0
99	Exerciseâ€induced upâ€regulation of skeletal muscle Nampt protein is independent of α2 AMPâ€activated protein kinase. FASEB Journal, 2013, 27, lb806.	0.5	0
100	Atlas of Exercise Metabolism Reveals Time-Dependent Signatures of Metabolic Homeostasis. SSRN Electronic Journal, 0, , .	0.4	0
101	OR03-06 NAD+ Availability Modulates 11β-HSD1-Mediated Glucocorticoid Regeneration in Mouse Skeletal Muscle, Journal of the Endocrine Society, 2020, 4	0.2	0