Jonas Thue Treebak

List of Publications by Year
in descending order

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	NAD⁺ and NAFLD â€“ caution, causality and careful optimism. Journal of Physiology, 2022, 600, 1135-1154.	1.3	19
2	Exercise effects on Î³3-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.	1.2	4
3	Intravenous nicotinamide riboside elevates mouse skeletal muscle NAD+ without impacting respiratory capacity or insulin sensitivity. IScience, 2022, 25, 103863.	1.9	12
4	Atlas of exercise metabolism reveals time-dependent signatures of metabolic homeostasis. Cell Metabolism, 2022, 34, 329-345.e8.	7.2	86
5	Comparative analysis of oral and intraperitoneal glucose tolerance tests in mice. Molecular Metabolism, 2022, 57, 101440.	3.0	25
6	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.	1.8	2
7	Ellagic acid prevents myocardial infarction-induced left ventricular diastolic dysfunction in ovariectomized rats. Journal of Nutritional Biochemistry, 2022, 105, 108990.	1.9	4
8	Beta-Hydroxybutyrate Suppresses Hepatic Production of the Ghrelin Receptor Antagonist LEAP2. Endocrinology, 2022, 163, .	1.4	10
9	Age-Dependent Decline of NAD+â€"Universal Truth or Confounded Consensus?. Nutrients, 2022, 14, 101.	1.7	16
10	Dietary Protein Restriction Improves Metabolic Dysfunction in Patients with Metabolic Syndrome in a Randomized, Controlled Trial. Nutrients, 2022, 14, 2670.	1.7	19
11	Protocol for qPCR analysis that corrects for cDNA amplification efficiency. STAR Protocols, 2022, 3, 101515.	0.5	7
12	Lysates of Methylococcus capsulatus Bath induce a lean-like microbiota, intestinal FoxP3+RORÎ³t+IL-17+ Tregs and improve metabolism. Nature Communications, 2021, 12, 1093.	5.8	24
13	An abundant biliary metabolite derived from dietary omega-3 polyunsaturated fatty acids regulates triglycerides. Journal of Clinical Investigation, 2021, 131, .	3.9	18
14	Ablation of Nampt in AgRP neurons leads to neurodegeneration and impairs fastingâ€•and ghrelinâ€•mediated food intake. FASEB Journal, 2021, 35, e21450.	0.2	2
15	Mass-spectrometry-based proteomics reveals mitochondrial supercomplexome plasticity. Cell Reports, 2021, 35, 109180.	2.9	28
16	Lipolysis drives expression of the constitutively active receptor GPR3 to induce adipose thermogenesis. Cell, 2021, 184, 3502-3518.e33.	13.5	68
17	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.	1.6	10
18	Investigation of the specificity and mechanism of action of the ULK1/AMPK inhibitor SBI-0206965. Biochemical Journal, 2021, 478, 2977-2997.	1.7	26

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19	Compound- and fiber type-selective requirement of AMPKÎ³3 for insulin-independent glucose uptake in skeletal muscle. Molecular Metabolism, 2021, 51, 101228.	3.0	14
20	Discovery of thymosin Î²4 as a human exerkine and growth factor. American Journal of Physiology - Cell Physiology, 2021, 321, C770-C778.	2.1	16
21	Dynamic interplay between Afadin S1795 phosphorylation and diet regulates glucose homeostasis in obese mice. Journal of Physiology, 2021, , .	1.3	4
22	Nampt controls skeletal muscle development by maintaining Ca2+ homeostasis and mitochondrial integrity. Molecular Metabolism, 2021, 53, 101271.	3.0	27
23	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
24	Hepatocyte-specific perturbation of NAD+ biosynthetic pathways in mice induces reversible nonalcoholic steatohepatitisâ€“like phenotypes. Journal of Biological Chemistry, 2021, 297, 101388.	1.6	20
25	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.	1.3	97
26	Fastingâ€•and ghrelinâ€induced food intake is regulated by NAMPT in the hypothalamus. Acta Physiologica, 2020, 228, e13437.	1.8	22
27	Glucagon acutely regulates hepatic amino acid catabolism and the effect may be disturbed by steatosis. Molecular Metabolism, 2020, 42, 101080.	3.0	66
28	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
29	ARDD 2020: from aging mechanisms to interventions. Aging, 2020, 12, 24484-24503.	1.4	32
30	OR03-06 NAD+ Availability Modulates 11Î²-HSD1-Mediated Glucocorticoid Regeneration in Mouse Skeletal Muscle. Journal of the Endocrine Society, 2020, 4, .	0.1	0
31	Mitochondrial function in liver cells is resistant to perturbations in NAD+ salvage capacity. Journal of Biological Chemistry, 2019, 294, 13304-13326.	1.6	33
32	Cytosolic ROS production by NADPH oxidase 2 regulates muscle glucose uptake during exercise. Nature Communications, 2019, 10, 4623.	5.8	128
33	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.	1.8	57
34	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.	1.8	8
35	Aerobic and resistance exercise training reverses ageâ€dependent decline in NAD⁺salvage capacity in human skeletal muscle. Physiological Reports, 2019, 7, e14139.	0.7	59
36	Time of Exercise Specifies the Impact on Muscle Metabolic Pathways and Systemic Energy Homeostasis. Cell Metabolism, 2019, 30, 92-110.e4.	7.2	176

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37	Underpowered or negative? A crucial distinction. Diabetologia, 2019, 62, 1094-1095.	2.9	2
38	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.	1.2	17
39	Electrical pulse stimulation induces differential responses in insulin action in myotubes from severely obese individuals. Journal of Physiology, 2019, 597, 449-466.	1.3	27
40	The aromatic amino acid sensor GPR142 controls metabolism through balanced regulation of pancreatic and gut hormones. Molecular Metabolism, 2019, 19, 49-64.	3.0	43
41	ADAMTS9 Regulates Skeletal Muscle Insulin Sensitivity Through Extracellular Matrix Alterations. Diabetes, 2019, 68, 502-514.	0.3	20
42	Genes controlling the activation of natural killer lymphocytes are epigenetically remodeled in intestinal cells from germâ€free mice. FASEB Journal, 2019, 33, 2719-2731.	0.2	12
43	Assessment of mouse liver [1-13C]pyruvate metabolism by dynamic hyperpolarized MRS. Journal of Endocrinology, 2019, 242, 251-260.	1.2	7
44	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.	1.6	35
45	Perturbations in the p53/miR-34a/SIRT1 pathway in the R6/2 Huntington's disease model. Molecular and Cellular Neurosciences, 2018, 88, 118-129.	1.0	41
46	NAMPT-mediated NAD biosynthesis is indispensable for adipose tissue plasticity and development of obesity. Molecular Metabolism, 2018, 11, 178-188.	3.0	55
47	Skeletal muscle O-GlcNAc transferase is important for muscle energy homeostasis and whole-body insulin sensitivity. Molecular Metabolism, 2018, 11, 160-177.	3.0	60
48	Age-dependent alterations of glucose clearance and homeostasis are temporally separated and modulated by dietary fat. Journal of Nutritional Biochemistry, 2018, 54, 66-76.	1.9	12
49	AMPK in skeletal muscle function and metabolism. FASEB Journal, 2018, 32, 1741-1777.	0.2	289
50	Sevoflurane Impairs Insulin Secretion and Tissueâ€Specific Glucose Uptake In Vivo. Basic and Clinical Pharmacology and Toxicology, 2018, 123, 732-738.	1.2	7
51	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.	1.8	36
52	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.	2.2	195
53	Skeletal Muscle Insulin Sensitivity Show Circadian Rhythmicity Which Is Independent of Exercise Training Status. Frontiers in Physiology, 2018, 9, 1198.	1.3	37
54	Enhanced Muscle Insulin Sensitivity After Contraction/Exercise Is Mediated by AMPK. Diabetes, 2017, 66, 598-612.	0.3	137

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55	Regulation of autophagy in human skeletal muscle: effects of exercise, exercise training and insulin stimulation. Journal of Physiology, 2016, 594, 745-761.	1.3	78
56	Dietary fat drives whole-body insulin resistance and promotes intestinal inflammation independent of body weight gain. Metabolism: Clinical and Experimental, 2016, 65, 1706-1719.	1.5	22
57	Role of AMP-Activated Protein Kinase for Regulating Post-exercise Insulin Sensitivity. Exs, 2016, 107, 81-126.	1.4	21
58	B31â€…Sirt1 expression, regulation and activity in R6/2 mice. Journal of Neurology, Neurosurgery and Psychiatry, 2016, 87, A20.1-A20.	0.9	1
59	AMP-activated protein kinase controls exercise training- and AICAR-induced increases in SIRT3 and MnSOD. Frontiers in Physiology, 2015, 6, 85.	1.3	71
60	Prior AICAR Stimulation Increases Insulin Sensitivity in Mouse Skeletal Muscle in an AMPK-Dependent Manner. Diabetes, 2015, 64, 2042-2055.	0.3	115
61	Deep Proteomics of Mouse Skeletal Muscle Enables Quantitation of Protein Isoforms, Metabolic Pathways, and Transcription Factors*. Molecular and Cellular Proteomics, 2015, 14, 841-853.	2.5	234
62	Biotin starvation causes mitochondrial protein hyperacetylation and partial rescue by the SIRT3-like deacetylase Hst4p. Nature Communications, 2015, 6, 7726.	5.8	47
63	Hepatic NAD salvage pathway is enhanced in mice on a high-fat diet. Molecular and Cellular Endocrinology, 2015, 412, 65-72.	1.6	29
64	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.	1.2	28
65	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.	1.8	58
66	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.	1.3	95
67	GLUT4 and Glycogen Synthase Are Key Players in Bed Rest-Induced Insulin Resistance. Diabetes 2012;61:1090–1099. Diabetes, 2014, 63, 3159-3159.	0.3	0
68	A common Greenlandic TBC1D4 variant confers muscle insulin resistance and type 2 diabetes. Nature, 2014, 512, 190-193.	13.7	338
69	AMPK controls exercise endurance, mitochondrial oxidative capacity, and skeletal muscle integrity. FASEB Journal, 2014, 28, 3211-3224.	0.2	182
70	AMPâ€activated protein kinase regulates nicotinamide phosphoribosyl transferase expression in skeletal muscle. Journal of Physiology, 2013, 591, 5207-5220.	1.3	81
71	Impairments in Site-Specific AS160 Phosphorylation and Effects of Exercise Training. Diabetes, 2013, 62, 3437-3447.	0.3	39
72	Contraction and AICAR Stimulate IL-6 Vesicle Depletion From Skeletal Muscle Fibers In Vivo. Diabetes, 2013, 62, 3081-3092.	0.3	53

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73	Insulin stimulation regulates AS160 and TBC1D1 phosphorylation sites in human skeletal muscle. Nutrition and Diabetes, 2013, 3, e74-e74.	1.5	35
74	AMPK and Insulin Action - Responses to Ageing and High Fat Diet. PLoS ONE, 2013, 8, e62338.	1.1	28
75	AMPK regulates contractionâ€induced glucose uptake in situ but not ex vivo. FASEB Journal, 2013, 27, 1202.12.	0.2	0
76	Exerciseâ€induced upâ€regulation of skeletal muscle Nampt protein is independent of Î±2 AMPâ€activated protein kinase. FASEB Journal, 2013, 27, lb806.	0.2	0
77	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.	1.8	58
78	Acute Exercise Remodels Promoter Methylation in Human Skeletal Muscle. Cell Metabolism, 2012, 15, 405-411.	7.2	729
79	GLUT4 and Glycogen Synthase Are Key Players in Bed Restâ€“Induced Insulin Resistance. Diabetes, 2012, 61, 1090-1099.	0.3	91
80	5â€²-AMP Activated Protein Kinase is Involved in the Regulation of Myocardial Î²-Oxidative Capacity in Mice. Frontiers in Physiology, 2012, 3, 33.	1.3	12
81	Sucrose Counteracts the Anti-Inflammatory Effect of Fish Oil in Adipose Tissue and Increases Obesity Development in Mice. PLoS ONE, 2011, 6, e21647.	1.1	47
82	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.	2.9	110
83	Molecular Mechanism by Which AMP-Activated Protein Kinase Activation Promotes Glycogen Accumulation in Muscle. Diabetes, 2011, 60, 766-774.	0.3	129
84	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.	0.2	0
85	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.	3.3	82
86	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.	2.1	86
87	Role of Adenosine 5â€²-Monophosphate-Activated Protein Kinase in Interleukin-6 Release from Isolated Mouse Skeletal Muscle. Endocrinology, 2009, 150, 600-606.	1.4	40
88	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.	1.8	136
89	A-769662 activates AMPK Î²₁-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.	2.1	93
90	Genetic impairment of AMPKÎ±2 signaling does not reduce muscle glucose uptake during treadmill exercise in mice. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E924-E934.	1.8	78

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91	Potential role of TBC1D4 in enhanced post-exercise insulin action in human skeletal muscle. Diabetologia, 2009, 52, 891-900.	2.9	109
92	Role of 5â€²AMP-activated protein kinase in skeletal muscle. International Journal of Obesity, 2008, 32, S13-S17.	1.6	9
93	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.	0.3	130
94	Role of Adenosine 5â€²-Monophosphate-Activated Protein Kinase Subunits in Skeletal Muscle Mammalian Target of Rapamycin Signaling. Molecular Endocrinology, 2008, 22, 1105-1112.	3.7	39
95	Lack of AMPKÎ±2 enhances pyruvate dehydrogenase activity during exercise. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E1242-E1249.	1.8	33
96	AS160 phosphorylation is associated with activation of Î±2Î²2Î³1- but not Î±2Î²2Î³3-AMPK trimeric complex in skeletal muscle during exercise in humans. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E715-E722.	1.8	115
97	Effects of Endurance Exercise Training on Insulin Signaling in Human Skeletal Muscle. Diabetes, 2007, 56, 2093-2102.	0.3	162
98	Role of AMPKÎ±2 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.	1.8	147
99	AMPK-Mediated AS160 Phosphorylation in Skeletal Muscle Is Dependent on AMPK Catalytic and Regulatory Subunits. Diabetes, 2006, 55, 2051-2058.	0.3	239
100	Exercise in rats does not alter hypothalamic AMP-activated protein kinase activity. Biochemical and Biophysical Research Communications, 2005, 329, 719-725.	1.0	30
101	Atlas of Exercise Metabolism Reveals Time-Dependent Signatures of Metabolic Homeostasis. SSRN Electronic Journal, 0, , .	0.4	0