

Jesper B Birk

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

4,254
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117625

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docs citations

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times ranked

4209
citing authors

#	ARTICLE	IF	CITATIONS
1	Skeletal muscle adaptations to exercise are not influenced by metformin treatment in humans: secondary analyses of 2 randomized, clinical trials. <i>Applied Physiology, Nutrition and Metabolism</i> , 2022, 47, 309-320.	1.9	8
2	Illumination of the Endogenous Insulin-Regulated TBC1D4 Interactome in Human Skeletal Muscle. <i>Diabetes</i> , 2022, 71, 906-920.	0.6	3
3	Measurement of Insulin- and Contraction-Stimulated Glucose Uptake in Isolated and Incubated Mature Skeletal Muscle from Mice. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	7
4	AXIN1 knockout does not alter AMPK/mTORC1 regulation and glucose metabolism in mouse skeletal muscle. <i>Journal of Physiology</i> , 2021, 599, 3081-3100.	2.9	6
5	Direct small molecule ADaM-site AMPK activators reveal an AMPK β -independent mechanism for blood glucose lowering. <i>Molecular Metabolism</i> , 2021, 51, 101259.	6.5	10
6	Deep muscle-proteomic analysis of freeze-dried human muscle biopsies reveals fiber type-specific adaptations to exercise training. <i>Nature Communications</i> , 2021, 12, 304.	12.8	79
7	The insulin-sensitizing effect of a single exercise bout is similar in type I and type II human muscle fibres. <i>Journal of Physiology</i> , 2020, 598, 5687-5699.	2.9	13
8	Inducible deletion of skeletal muscle AMPK β reveals that AMPK is required for nucleotide balance but dispensable for muscle glucose uptake and fat oxidation during exercise. <i>Molecular Metabolism</i> , 2020, 40, 101028.	6.5	32
9	Coingestion of protein and carbohydrate in the early recovery phase, compared with carbohydrate only, improves endurance performance despite similar glycogen degradation and AMPK phosphorylation. <i>Journal of Applied Physiology</i> , 2020, 129, 297-310.	2.5	18
10	A Single Bout of One-Legged Exercise to Local Exhaustion Decreases Insulin Action in Nonexercised Muscle Leading to Decreased Whole-Body Insulin Action. <i>Diabetes</i> , 2020, 69, 578-590.	0.6	21
11	AMPK and TBC1D1 Regulate Muscle Glucose Uptake After, but Not During, Exercise and Contraction. <i>Diabetes</i> , 2019, 68, 1427-1440.	0.6	67
12	Metformin does not compromise energy status in human skeletal muscle at rest or during acute exercise: A randomised, crossover trial. <i>Physiological Reports</i> , 2019, 7, e14307.	1.7	18
13	ADAMTS9 Regulates Skeletal Muscle Insulin Sensitivity Through Extracellular Matrix Alterations. <i>Diabetes</i> , 2019, 68, 502-514.	0.6	20
14	Exercise training reduces the insulin-sensitizing effect of a single bout of exercise in human skeletal muscle. <i>Journal of Physiology</i> , 2019, 597, 89-103.	2.9	41
15	Identifying the Heterotrimeric Complex Stoichiometry of AMPK in Skeletal Muscle by Immunoprecipitation. <i>Methods in Molecular Biology</i> , 2018, 1732, 203-213.	0.9	1
16	Kinase Activity Determination of Specific AMPK Complexes/Heterotrimers in the Skeletal Muscle. <i>Methods in Molecular Biology</i> , 2018, 1732, 215-228.	0.9	6
17	Glucose metabolism and metabolic flexibility in cultured skeletal muscle cells is related to exercise status in young male subjects. <i>Archives of Physiology and Biochemistry</i> , 2018, 124, 119-130.	2.1	14
18	Exercise-induced molecular mechanisms promoting glycogen supercompensation in human skeletal muscle. <i>Molecular Metabolism</i> , 2018, 16, 24-34.	6.5	58

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19	Enhanced Muscle Insulin Sensitivity After Contraction/Exercise Is Mediated by AMPK. <i>Diabetes</i> , 2017, 66, 598-612.	0.6	137
20	The effect of age and unilateral leg immobilization for 2 weeks on substrate utilization during moderate-intensity exercise in human skeletal muscle. <i>Journal of Physiology</i> , 2016, 594, 2339-2358.	2.9	20
21	Intact Regulation of the AMPK Signaling Network in Response to Exercise and Insulin in Skeletal Muscle of Male Patients With Type 2 Diabetes: Illumination of AMPK Activation in Recovery From Exercise. <i>Diabetes</i> , 2016, 65, 1219-1230.	0.6	62
22	Epinephrine-stimulated glycogen breakdown activates glycogen synthase and increases insulin-stimulated glucose uptake in epitrochlearis muscles. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 308, E231-E240.	3.5	29
23	Human muscle fibre type-specific regulation of AMPK and downstream targets by exercise. <i>Journal of Physiology</i> , 2015, 593, 2053-2069.	2.9	90
24	AMPK \pm is critical for enhancing skeletal muscle fatty acid utilization during <i>in vivo</i> exercise in mice. <i>FASEB Journal</i> , 2015, 29, 1725-1738.	0.5	68
25	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
26	AMPK \pm is essential for acute exercise-induced gene responses but not for exercise training-induced adaptations in mouse skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 309, E900-E914.	3.5	28
27	Human Muscle Fiber Type-Specific Insulin Signaling: Impact of Obesity and Type 2 Diabetes. <i>Diabetes</i> , 2015, 64, 485-497.	0.6	150
28	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.	2.9	95
29	Exercise-induced AMPK activity in skeletal muscle: Role in glucose uptake and insulin sensitivity. <i>Molecular and Cellular Endocrinology</i> , 2013, 366, 204-214.	3.2	124
30	Effect of birth weight and 12 weeks of exercise training on exercise-induced AMPK signaling in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 304, E1379-E1390.	3.5	35
31	Akt2 influences glycogen synthase activity in human skeletal muscle through regulation of NH ₂ -terminal (sites 2 + 2a) phosphorylation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 304, E631-E639.	3.5	17
32	A novel AMPK activator, PTEN \downarrow , increases γ 1 AMPK-associated activity, but not γ 3 AMPK-associated activity or glucose transport. <i>FASEB Journal</i> , 2013, 27, 1169.3.	0.5	0
33	Exercise Alleviates Lipid-Induced Insulin Resistance in Human Skeletal Muscle-Signaling Interaction at the Level of TBC1 Domain Family Member 4. <i>Diabetes</i> , 2012, 61, 2743-2752.	0.6	92
34	Hyperglycaemia normalises insulin action on glucose metabolism but not the impaired activation of AKT and glycogen synthase in the skeletal muscle of patients with type 2 diabetes. <i>Diabetologia</i> , 2012, 55, 1435-1445.	6.3	38
35	Contraction-induced skeletal muscle FAT/CD36 trafficking and FA uptake is AMPK independent. <i>Journal of Lipid Research</i> , 2011, 52, 699-711.	4.2	67
36	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.	6.3	110

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37	Lipid-Induced Insulin Resistance Affects Women Less Than Men and Is Not Accompanied by Inflammation or Impaired Proximal Insulin Signaling. <i>Diabetes</i> , 2011, 60, 64-73.	0.6	106
38	Differential aetiology and impact of phosphoinositide 3-kinase (PI3K) and Akt signalling in skeletal muscle on in vivo insulin action. <i>Diabetologia</i> , 2010, 53, 1998-2007.	6.3	14
39	Exercise-induced TBC1D1 Ser237 phosphorylation and 14-3-3 protein binding capacity in human skeletal muscle. <i>Journal of Physiology</i> , 2010, 588, 4539-4548.	2.9	58
40	Low Muscle Glycogen and Elevated Plasma Free Fatty Acid Modify but Do Not Prevent Exercise-Induced PDH Activation in Human Skeletal Muscle. <i>Diabetes</i> , 2010, 59, 26-32.	0.6	32
41	Dysregulation of Glycogen Synthase COOH- and NH ₂ -Terminal Phosphorylation by Insulin in Obesity and Type 2 Diabetes Mellitus. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009, 94, 4547-4556.	3.6	64
42	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.	3.5	136
43	Reduced malonyl-CoA content in recovery from exercise correlates with improved insulin-stimulated glucose uptake in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 296, E787-E795.	3.5	18
44	Genetic and metabolic effects on skeletal muscle AMPK in young and older twins. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 297, E956-E964.	3.5	30
45	A-769662 activates AMPK γ -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.	4.6	93
46	Genetic impairment of AMPK α 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.	3.5	78
47	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.	0.6	130
48	Regulation of PDH in human arm and leg muscles at rest and during intense exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008, 294, E36-E42.	3.5	30
49	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.	3.5	115
50	Absence of humoral mediated 5-AMP-activated protein kinase activation in human skeletal muscle and adipose tissue during exercise. <i>Journal of Physiology</i> , 2007, 585, 897-909.	2.9	23
51	Oral glucose ingestion attenuates exercise-induced activation of 5-AMP-activated protein kinase in human skeletal muscle. <i>Biochemical and Biophysical Research Communications</i> , 2006, 342, 949-955.	2.1	61
52	Predominant α 3 AMPK activation during exercise in human skeletal muscle. <i>Journal of Physiology</i> , 2006, 577, 1021-1032.	2.9	251
53	PDH-E1 α Dephosphorylation and Activation in Human Skeletal Muscle During Exercise. <i>Diabetes</i> , 2006, 55, 3020-3027.	0.6	68
54	5-AMP activated protein kinase expression in human skeletal muscle: effects of strength training and type 2 diabetes. <i>Journal of Physiology</i> , 2005, 564, 563-573.	2.9	141

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55	Effects of α -AMPK knockout on exercise-induced gene activation in mouse skeletal muscle. <i>FASEB Journal</i> , 2005, 19, 1146-1148.	0.5	248
56	Knockout of the α 2 but Not α 1 $5'$ -AMP-activated Protein Kinase Isoform Abolishes 5-Aminoimidazole-4-carboxamide-1- β -D-ribofuranosidebut Not Contraction-induced Glucose Uptake in Skeletal Muscle. <i>Journal of Biological Chemistry</i> , 2004, 279, 1070-1079.	3.4	484
57	The α 2-5'AMP-Activated Protein Kinase Is a Site 2 Glycogen Synthase Kinase in Skeletal Muscle and Is Responsive to Glucose Loading. <i>Diabetes</i> , 2004, 53, 3074-3081.	0.6	215
58	Simultaneous human papilloma virus type 16 E7 and cdk inhibitor p21 expression induces apoptosis and cathepsin B activation. <i>Virology</i> , 2004, 320, 301-312.	2.4	26
59	Exercise signalling to glucose transport in skeletal muscle. <i>Proceedings of the Nutrition Society</i> , 2004, 63, 211-216.	1.0	44
60	Insulin signalling: effects of prior exercise. <i>Acta Physiologica Scandinavica</i> , 2003, 178, 321-328.	2.2	58
61	Transgenic models – a scientific tool to understand exercise-induced metabolism: the regulatory role of AMPK ($5'$ -AMP-activated protein kinase) in glucose transport and glycogen synthase activity in skeletal muscle. <i>Biochemical Society Transactions</i> , 2003, 31, 1290-1294.	3.4	22