Thomas Elbenhardt Jensen

List of Publications by Year
in descending order

88 papers	5,121 citations	81900 39 h-index	91884 69 g-index
98 all docs	98 docs citations	98 times ranked	6897 citing authors

#	Article	IF	Citations
1	Global Phosphoproteomic Analysis of Human Skeletal Muscle Reveals a Network of Exercise-Regulated Kinases and AMPK Substrates. Cell Metabolism, 2015, 22, 922-935.	16.2	333
2	Exercise-stimulated glucose uptake â€" regulation and implications for glycaemic control. Nature Reviews Endocrinology, 2017, 13, 133-148.	9.6	312
3	Using molecular classification to predict gains in maximal aerobic capacity following endurance exercise training in humans. Journal of Applied Physiology, 2010, 108, 1487-1496.	2.5	296
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	Regulation of glucose and glycogen metabolism during and after exercise. Journal of Physiology, 2012, 590, 1069-1076.	2.9	203
6	Possible CaMKK-dependent regulation of AMPK phosphorylation and glucose uptake at the onset of mild tetanic skeletal muscle contraction. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E1308-E1317.	3.5	177
7	Rac1 Signaling Is Required for Insulin-Stimulated Glucose Uptake and Is Dysregulated in Insulin-Resistant Murine and Human Skeletal Muscle. Diabetes, 2013, 62, 1865-1875.	0.6	159
8	Proâ€Inflammatory macrophages increase in skeletal muscle of high fatâ€Fed mice and correlate with metabolic risk markers in humans. Obesity, 2014, 22, 747-757.	3.0	144
9	Differential regulation by AMP and ADP of AMPK complexes containing different Î³ subunit isoforms. Biochemical Journal, 2016, 473, 189-199.	3.7	138
10	Cytosolic ROS production by NADPH oxidase 2 regulates muscle glucose uptake during exercise. Nature Communications, 2019, 10, 4623.	12.8	128
11	Rac1 Is a Novel Regulator of Contraction-Stimulated Glucose Uptake in Skeletal Muscle. Diabetes, 2013, 62, 1139-1151.	0.6	126
12	Caffeine-induced Ca2+ release increases AMPK-dependent glucose uptake in rodent soleus muscle. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E286-E292.	3.5	119
13	Rac1 signalling towards GLUT4/glucose uptake in skeletal muscle. Cellular Signalling, 2011, 23, 1546-1554.	3.6	118
14	Akt and Rac1 signaling are jointly required for insulin-stimulated glucose uptake in skeletal muscle and downregulated in insulin resistance. Cellular Signalling, 2014, 26, 323-331.	3.6	117
15	Improved glucose homeostasis and enhanced insulin signalling in Grb14-deficient mice. EMBO Journal, 2004, 23, 582-593.	7.8	116
16	Lipid-Induced Insulin Resistance Affects Women Less Than Men and Is Not Accompanied by Inflammation or Impaired Proximal Insulin Signaling. Diabetes, 2011, 60, 64-73.	0.6	106
17	c-Cblâ€"deficient mice have reduced adiposity, higher energy expenditure, and improved peripheral insulin action. Journal of Clinical Investigation, 2004, 114, 1326-1333.	8.2	96
18	Rac1 governs exerciseâ€stimulated glucose uptake in skeletal muscle through regulation of GLUT4 translocation in mice. Journal of Physiology, 2016, 594, 4997-5008.	2.9	87

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19	A Ca²⁺â€“calmodulinâ€“eEF2Kâ€“eEF2 signalling cascade, but not AMPK, contributes to the suppression of skeletal muscle protein synthesis during contractions. Journal of Physiology, 2009, 587, 1547-1563.	2.9	85
20	Crucial role for LKB1 to AMPKÎ±2 axis in the regulation of CD36-mediated long-chain fatty acid uptake into cardiomyocytesâ˜†. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2009, 1791, 212-219.	2.4	83
21	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.	3.5	78
22	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
23	AMPK Î±1 Activation Is Required for Stimulation of Glucose Uptake by Twitch Contraction, but Not by H2O2, in Mouse Skeletal Muscle. PLoS ONE, 2008, 3, e2102.	2.5	77
24	AMP-activated Protein Kinase Î±2 Subunit Is Required for the Preservation of Hepatic Insulin Sensitivity by n-3 Polyunsaturated Fatty Acids. Diabetes, 2010, 59, 2737-2746.	0.6	74
25	Regulation of AMPâ€activated protein kinase by LKB1 and CaMKK in adipocytes. Journal of Cellular Biochemistry, 2011, 112, 1364-1375.	2.6	68
26	Acute mTOR inhibition induces insulin resistance and alters substrate utilization inÂvivo. Molecular Metabolism, 2014, 3, 630-641.	6.5	68
27	AMPâ€activated protein kinase in contraction regulation of skeletal muscle metabolism: necessary and/or sufficient?. Acta Physiologica, 2009, 196, 155-174.	3.8	67
28	Contraction-stimulated glucose transport in muscle is controlled by AMPK and mechanical stress but not sarcoplasmatic reticulum Ca2+ release. Molecular Metabolism, 2014, 3, 742-753.	6.5	65
29	Role of AMPK in regulation of LC3 lipidation as a marker of autophagy in skeletal muscle. Cellular Signalling, 2016, 28, 663-674.	3.6	62
30	Rac1 â€“ a novel regulator of contractionâ€stimulated glucose uptake in skeletal muscle. Experimental Physiology, 2014, 99, 1574-1580.	2.0	58
31	Stretchâ€stimulated glucose transport in skeletal muscle is regulated by Rac1. Journal of Physiology, 2015, 593, 645-656.	2.9	58
32	Benzimidazole derivative small-molecule 991 enhances AMPK activity and glucose uptake induced by AICAR or contraction in skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E706-E719.	3.5	53
33	Rac1 and AMPK Account for the Majority of Muscle Glucose Uptake Stimulated by Ex Vivo Contraction but Not In Vivo Exercise. Diabetes, 2017, 66, 1548-1559.	0.6	48
34	PT-1 selectively activates AMPK-Î³1 complexes in mouse skeletal muscle, but activates all three Î³ subunit complexes in cultured human cells by inhibiting the respiratory chain. Biochemical Journal, 2015, 467, 461-472.	3.7	47
35	Mechanisms involved in follistatinâ€induced hypertrophy and increased insulin action in skeletal muscle. Journal of Cachexia, Sarcopenia and Muscle, 2019, 10, 1241-1257.	7.3	47
36	Lactate administration activates the ERK1/2, mTORC1, and AMPK pathways differentially according to skeletal muscle type in mouse. Physiological Reports, 2018, 6, e13800.	1.7	46

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37	Adaptations to high-intensity interval training in skeletal muscle require NADPH oxidase 2. Redox Biology, 2019, 24, 101188.	9.0	45
38	Quantitative proteomic characterization of cellular pathways associated with altered insulin sensitivity in skeletal muscle following high-fat diet feeding and exercise training. Scientific Reports, 2018, 8, 10723.	3.3	44
39	Mammalian target of rapamycin complex 2 regulates muscle glucose uptake during exercise in mice. Journal of Physiology, 2017, 595, 4845-4855.	2.9	43
40	Multiple signalling pathways redundantly control glucose transporter <i>GLUT4</i> gene transcription in skeletal muscle. Journal of Physiology, 2009, 587, 4319-4327.	2.9	42
41	Rac1 muscle knockout exacerbates the detrimental effect of highâ€fat diet on insulinâ€stimulated muscle glucose uptake independently of Akt. Journal of Physiology, 2018, 596, 2283-2299.	2.9	41
42	The Emerging Roles of Nicotinamide Adenine Dinucleotide Phosphate Oxidase 2 in Skeletal Muscle Redox Signaling and Metabolism. Antioxidants and Redox Signaling, 2019, 31, 1371-1410.	5.4	40
43	Resistance Exercise-Induced Hypertrophy: A Potential Role for Rapamycin-Insensitive mTOR. Exercise and Sport Sciences Reviews, 2019, 47, 188-194.	3.0	37
44	Lack of AMPKÎ±2 enhances pyruvate dehydrogenase activity during exercise. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E1242-E1249.	3.5	33
45	TLR2 Controls Intestinal Carcinogen Detoxication by CYP1A1. PLoS ONE, 2012, 7, e32309.	2.5	33
46	Growth Factor-Dependent and -Independent Activation of mTORC2. Trends in Endocrinology and Metabolism, 2020, 31, 13-24.	7.1	31
47	Prior exercise in humans redistributes intramuscular GLUT4 and enhances insulin-stimulated sarcolemmal and endosomal GLUT4 translocation. Molecular Metabolism, 2020, 39, 100998.	6.5	29
48	AMPK and Insulin Action - Responses to Ageing and High Fat Diet. PLoS ONE, 2013, 8, e62338.	2.5	28
49	Role of AMPK in skeletal muscle gene adaptation in relation to exercise. Applied Physiology, Nutrition and Metabolism, 2007, 32, 904-911.	1.9	27
50	Compartmentalized muscle redox signals controlling exercise metabolism â€“ Current state, future challenges. Redox Biology, 2020, 35, 101473.	9.0	27
51	Î²-Actin shows limited mobility and is required only for supraphysiological insulin-stimulated glucose transport in young adult soleus muscle. American Journal of Physiology - Endocrinology and Metabolism, 2018, 315, E110-E125.	3.5	25
52	EMG-Normalised Kinase Activation during Exercise Is Higher in Human Gastrocnemius Compared to Soleus Muscle. PLoS ONE, 2012, 7, e31054.	2.5	22
53	Cancer causes metabolic perturbations associated with reduced insulin-stimulated glucose uptake in peripheral tissues and impaired muscle microvascular perfusion. Metabolism: Clinical and Experimental, 2020, 105, 154169.	3.4	22
54	Knockout of the predominant conventional PKC isoform, PKCÎ±, in mouse skeletal muscle does not affect contraction-stimulated glucose uptake. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E340-E348.	3.5	21

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55	Protein kinase CÎ± activity is important for contraction-induced FXYD1 phosphorylation in skeletal muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R1808-R1814.	1.8	21
56	The Rho-guanine nucleotide exchange factor PDZ-RhoGEF governs susceptibility to diet-induced obesity and type 2 diabetes. ELife, 2015, 4, .	6.0	20
57	Large-scale spontaneous self-organization and maturation of skeletal muscle tissues on ultra-compliant gelatin hydrogel substrates. Scientific Reports, 2020, 10, 13305.	3.3	19
58	Skeletal Muscleâ€"Specific Activation of Gq Signaling Maintains Glucose Homeostasis. Diabetes, 2019, 68, 1341-1352.	0.6	18
59	Chemical genetic screen identifies Gapex-5/GAPVD1 and STBD1 as novel AMPK substrates. Cellular Signalling, 2019, 57, 45-57.	3.6	18
60	Rapamycin and mTORC2 inhibition synergistically reduce contractionâ€stimulated muscle protein synthesis. Journal of Physiology, 2020, 598, 5453-5466.	2.9	17
61	c-Myc overexpression increases ribosome biogenesis and protein synthesis independent of mTORC1 activation in mouse skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2021, 321, E551-E559.	3.5	16
62	Periodized low protein-high carbohydrate diet confers potent, but transient, metabolic improvements. Molecular Metabolism, 2018, 17, 112-121.	6.5	15
63	Insulinâ€stimulated glucose uptake partly relies on p21â€activated kinase (PAK)2, but not PAK1, in mouse skeletal muscle. Journal of Physiology, 2020, 598, 5351-5377.	2.9	15
64	Contractionâ€regulated mTORC1 and protein synthesis: Influence of AMPK and glycogen. Journal of Physiology, 2020, 598, 2637-2649.	2.9	15
65	The ULK1/2 and AMPK Inhibitor SBI-0206965 Blocks AICAR and Insulin-Stimulated Glucose Transport. International Journal of Molecular Sciences, 2020, 21, 2344.	4.1	15
66	Clenbuterol exerts antidiabetic activity through metabolic reprogramming of skeletal muscle cells. Nature Communications, 2022, 13, 22.	12.8	15
67	The Gut Microbiome on a Periodized Low-Protein Diet Is Associated With Improved Metabolic Health. Frontiers in Microbiology, 2019, 10, 709.	3.5	14
68	Rac1 in Muscle Is Dispensable for Improved Insulin Action After Exercise in Mice. Endocrinology, 2016, 157, 3009-3015.	2.8	13
69	Mechanisms Underlying Absent Training-Induced Improvement in Insulin Action in Lean, Hyperandrogenic Women With Polycystic Ovary Syndrome. Diabetes, 2020, 69, 2267-2280.	0.6	13
70	5â€²-AMP Activated Protein Kinase is Involved in the Regulation of Myocardial Î²-Oxidative Capacity in Mice. Frontiers in Physiology, 2012, 3, 33.	2.8	12
71	Electroporated GLUT4â€7 myc â€GFP detects in vivo glucose transporter 4 translocation in skeletal muscle without discernible changes in GFP patterns. Experimental Physiology, 2019, 104, 704-714.	2.0	12
72	Is contractionâ€stimulated glucose transport feedforward regulated by Ca²⁺?. Experimental Physiology, 2014, 99, 1562-1568.	2.0	11

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73	RNA-bound PGC-1Î± controls gene expression in liquid-like nuclear condensates. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
74	The p21â€activated kinase 2 (PAK2), but not PAK1, regulates contractionâ€stimulated skeletal muscle glucose transport. Physiological Reports, 2020, 8, e14460.	1.7	9
75	Î±-MSH Stimulates Glucose Uptake in Mouse Muscle and Phosphorylates Rab-GTPase-Activating Protein TBC1D1 Independently of AMPK. PLoS ONE, 2016, 11, e0157027.	2.5	8
76	Low- and high-protein diets do not alter exÂvivo insulin action in skeletal muscle. Physiological Reports, 2018, 6, e13798.	1.7	7
77	Chemical denervation using botulinum toxin increases Akt expression and reduces submaximal insulin-stimulated glucose transport in mouse muscle. Cellular Signalling, 2019, 53, 224-233.	3.6	7
78	Cancer causes dysfunctional insulin signaling and glucose transport in a muscleâ€typeâ€specific manner. FASEB Journal, 2022, 36, e22211.	0.5	7
79	AXIN1 knockout does not alter AMPK/mTORC1 regulation and glucose metabolism in mouse skeletal muscle. Journal of Physiology, 2021, 599, 3081-3100.	2.9	6
80	InÂvivo metabolic effects after acute activation of skeletal muscle Gs signaling. Molecular Metabolism, 2022, 55, 101415.	6.5	5
81	Exercise increases phosphorylation of the putative mTORC2 activity readout NDRG1 in human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2022, 322, E63-E73.	3.5	4
82	c-Cbl-deficient mice have reduced adiposity, higher energy expenditure, and improved peripheral insulin action. Journal of Clinical Investigation, 2005, 115, 476-476.	8.2	3
83	Gene deletion of Î³â€actin impairs insulinâ€stimulated skeletal muscle glucose uptake in growing mice but not in mature adult mice. Physiological Reports, 2022, 10, e15183.	1.7	3
84	When less is more: a simple Western blotting amendment allowing data acquisition on human single fibers. Journal of Applied Physiology, 2011, 110, 583-584.	2.5	1
85	Reply from Lykke Sylow, Lisbeth L. V. MÃ¸ller, Maximilian Kleinert, Erik A. Richter and Thomas E. Jensen. Journal of Physiology, 2015, 593, 2239-2240.	2.9	0
86	Muscleâ€specific deletion of mTORC2 (Rictor) blocks insulin stimulated Akt Ser 473 phosphorylation and impairs submaximal but not maximal insulin induced glucose uptake. FASEB Journal, 2013, 27, 1109.10.	0.5	0
87	A novel AMPK activator, PTâ€1, increases gamma1 AMPKassociated activity, but not gamma3 AMPKâ€associated activity or glucose transport. FASEB Journal, 2013, 27, 1169.3.	0.5	0
88	Rac1 is a novel regulator of stretchâ€induced glucose uptake in muscle. FASEB Journal, 2013, 27, 1152.7.	0.5	0