

Thomas Elbenhardt Jensen

List of Publications by Year in descending order

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88
papers

5,121
citations

81743

39
h-index

91712

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. <i>Cell Metabolism</i> , 2015, 22, 922-935.	7.2	333
2	Exercise-stimulated glucose uptake regulation and implications for glycaemic control. <i>Nature Reviews Endocrinology</i> , 2017, 13, 133-148.	4.3	312
3	Using molecular classification to predict gains in maximal aerobic capacity following endurance exercise training in humans. <i>Journal of Applied Physiology</i> , 2010, 108, 1487-1496.	1.2	296
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	Regulation of glucose and glycogen metabolism during and after exercise. <i>Journal of Physiology</i> , 2012, 590, 1069-1076.	1.3	203
6	Possible CaMKK-dependent regulation of AMPK phosphorylation and glucose uptake at the onset of mild tetanic skeletal muscle contraction. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E1308-E1317.	1.8	177
7	Rac1 Signaling Is Required for Insulin-Stimulated Glucose Uptake and Is Dysregulated in Insulin-Resistant Murine and Human Skeletal Muscle. <i>Diabetes</i> , 2013, 62, 1865-1875.	0.3	159
8	Pro-inflammatory macrophages increase in skeletal muscle of high fat-fed mice and correlate with metabolic risk markers in humans. <i>Obesity</i> , 2014, 22, 747-757.	1.5	144
9	Differential regulation by AMP and ADP of AMPK complexes containing different γ subunit isoforms. <i>Biochemical Journal</i> , 2016, 473, 189-199.	1.7	138
10	Cytosolic ROS production by NADPH oxidase 2 regulates muscle glucose uptake during exercise. <i>Nature Communications</i> , 2019, 10, 4623.	5.8	128
11	Rac1 Is a Novel Regulator of Contraction-Stimulated Glucose Uptake in Skeletal Muscle. <i>Diabetes</i> , 2013, 62, 1139-1151.	0.3	126
12	Caffeine-induced Ca ²⁺ release increases AMPK-dependent glucose uptake in rodent soleus muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 293, E286-E292.	1.8	119
13	Rac1 signalling towards GLUT4/glucose uptake in skeletal muscle. <i>Cellular Signalling</i> , 2011, 23, 1546-1554.	1.7	118
14	Akt and Rac1 signaling are jointly required for insulin-stimulated glucose uptake in skeletal muscle and downregulated in insulin resistance. <i>Cellular Signalling</i> , 2014, 26, 323-331.	1.7	117
15	Improved glucose homeostasis and enhanced insulin signalling in Grb14-deficient mice. <i>EMBO Journal</i> , 2004, 23, 582-593.	3.5	116
16	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.	0.3	106
17	c-Cbl-deficient mice have reduced adiposity, higher energy expenditure, and improved peripheral insulin action. <i>Journal of Clinical Investigation</i> , 2004, 114, 1326-1333.	3.9	96
18	Rac1 governs exercise-stimulated glucose uptake in skeletal muscle through regulation of GLUT4 translocation in mice. <i>Journal of Physiology</i> , 2016, 594, 4997-5008.	1.3	87

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19	A Ca ²⁺ -calmodulin ¹ -EF2K ² -EF2 signalling cascade, but not AMPK, contributes to the suppression of skeletal muscle protein synthesis during contractions. <i>Journal of Physiology</i> , 2009, 587, 1547-1563.	1.3	85
20	Crucial role for LKB1 to AMPK ¹ axis in the regulation of CD36-mediated long-chain fatty acid uptake into cardiomyocytes [†] . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009, 1791, 212-219.	1.2	83
21	Genetic impairment of AMPK ¹ 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
22	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
23	AMPK ¹ Activation Is Required for Stimulation of Glucose Uptake by Twitch Contraction, but Not by H ₂ O ₂ , in Mouse Skeletal Muscle. <i>PLoS ONE</i> , 2008, 3, e2102.	1.1	77
24	AMP-activated Protein Kinase ¹ Subunit Is Required for the Preservation of Hepatic Insulin Sensitivity by n-3 Polyunsaturated Fatty Acids. <i>Diabetes</i> , 2010, 59, 2737-2746.	0.3	74
25	Regulation of AMP-activated protein kinase by LKB1 and CaMKK in adipocytes. <i>Journal of Cellular Biochemistry</i> , 2011, 112, 1364-1375.	1.2	68
26	Acute mTOR inhibition induces insulin resistance and alters substrate utilization in vivo. <i>Molecular Metabolism</i> , 2014, 3, 630-641.	3.0	68
27	AMP-activated protein kinase in contraction regulation of skeletal muscle metabolism: necessary and/or sufficient?. <i>Acta Physiologica</i> , 2009, 196, 155-174.	1.8	67
28	Contraction-stimulated glucose transport in muscle is controlled by AMPK and mechanical stress but not sarcoplasmic reticulum Ca ²⁺ release. <i>Molecular Metabolism</i> , 2014, 3, 742-753.	3.0	65
29	Role of AMPK in regulation of LC3 lipidation as a marker of autophagy in skeletal muscle. <i>Cellular Signalling</i> , 2016, 28, 663-674.	1.7	62
30	Rac1 ¹ a novel regulator of contraction ¹ -stimulated glucose uptake in skeletal muscle. <i>Experimental Physiology</i> , 2014, 99, 1574-1580.	0.9	58
31	Stretch ¹ -stimulated glucose transport in skeletal muscle is regulated by Rac1. <i>Journal of Physiology</i> , 2015, 593, 645-656.	1.3	58
32	Benzimidazole derivative small-molecule 991 enhances AMPK activity and glucose uptake induced by AICAR or contraction in skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 311, E706-E719.	1.8	53
33	Rac1 and AMPK Account for the Majority of Muscle Glucose Uptake Stimulated by Ex Vivo Contraction but Not In Vivo Exercise. <i>Diabetes</i> , 2017, 66, 1548-1559.	0.3	48
34	PT-1 selectively activates AMPK ¹ complexes in mouse skeletal muscle, but activates all three ¹ subunit complexes in cultured human cells by inhibiting the respiratory chain. <i>Biochemical Journal</i> , 2015, 467, 461-472.	1.7	47
35	Mechanisms involved in follistatin ¹ -induced hypertrophy and increased insulin action in skeletal muscle. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2019, 10, 1241-1257.	2.9	47
36	Lactate administration activates the ERK1/2, mTORC1, and AMPK pathways differentially according to skeletal muscle type in mouse. <i>Physiological Reports</i> , 2018, 6, e13800.	0.7	46

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37	Adaptations to high-intensity interval training in skeletal muscle require NADPH oxidase 2. <i>Redox Biology</i> , 2019, 24, 101188.	3.9	45
38	Quantitative proteomic characterization of cellular pathways associated with altered insulin sensitivity in skeletal muscle following high-fat diet feeding and exercise training. <i>Scientific Reports</i> , 2018, 8, 10723.	1.6	44
39	Mammalian target of rapamycin complex 2 regulates muscle glucose uptake during exercise in mice. <i>Journal of Physiology</i> , 2017, 595, 4845-4855.	1.3	43
40	Multiple signalling pathways redundantly control glucose transporter <i>GLUT4</i> gene transcription in skeletal muscle. <i>Journal of Physiology</i> , 2009, 587, 4319-4327.	1.3	42
41	Rac1 muscle knockout exacerbates the detrimental effect of high-fat diet on insulin-stimulated muscle glucose uptake independently of Akt. <i>Journal of Physiology</i> , 2018, 596, 2283-2299.	1.3	41
42	The Emerging Roles of Nicotinamide Adenine Dinucleotide Phosphate Oxidase 2 in Skeletal Muscle Redox Signaling and Metabolism. <i>Antioxidants and Redox Signaling</i> , 2019, 31, 1371-1410.	2.5	40
43	Resistance Exercise-Induced Hypertrophy: A Potential Role for Rapamycin-Insensitive mTOR. <i>Exercise and Sport Sciences Reviews</i> , 2019, 47, 188-194.	1.6	37
44	Lack of AMPK β 2 enhances pyruvate dehydrogenase activity during exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 293, E1242-E1249.	1.8	33
45	TLR2 Controls Intestinal Carcinogen Detoxication by CYP1A1. <i>PLoS ONE</i> , 2012, 7, e32309.	1.1	33
46	Growth Factor-Dependent and -Independent Activation of mTORC2. <i>Trends in Endocrinology and Metabolism</i> , 2020, 31, 13-24.	3.1	31
47	Prior exercise in humans redistributes intramuscular GLUT4 and enhances insulin-stimulated sarcolemmal and endosomal GLUT4 translocation. <i>Molecular Metabolism</i> , 2020, 39, 100998.	3.0	29
48	AMPK and Insulin Action - Responses to Ageing and High Fat Diet. <i>PLoS ONE</i> , 2013, 8, e62338.	1.1	28
49	Role of AMPK in skeletal muscle gene adaptation in relation to exercise. <i>Applied Physiology, Nutrition and Metabolism</i> , 2007, 32, 904-911.	0.9	27
50	Compartmentalized muscle redox signals controlling exercise metabolism – Current state, future challenges. <i>Redox Biology</i> , 2020, 35, 101473.	3.9	27
51	β -Actin shows limited mobility and is required only for supraphysiological insulin-stimulated glucose transport in young adult soleus muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E110-E125.	1.8	25
52	EMG-Normalised Kinase Activation during Exercise Is Higher in Human Gastrocnemius Compared to Soleus Muscle. <i>PLoS ONE</i> , 2012, 7, e31054.	1.1	22
53	Cancer causes metabolic perturbations associated with reduced insulin-stimulated glucose uptake in peripheral tissues and impaired muscle microvascular perfusion. <i>Metabolism: Clinical and Experimental</i> , 2020, 105, 154169.	1.5	22
54	Knockout of the predominant conventional PKC isoform, PKC δ , in mouse skeletal muscle does not affect contraction-stimulated glucose uptake. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 297, E340-E348.	1.8	21

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55	Protein kinase C β activity is important for contraction-induced FXD1 phosphorylation in skeletal muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R1808-R1814.	0.9	21
56	The Rho-guanine nucleotide exchange factor PDZ-RhoGEF governs susceptibility to diet-induced obesity and type 2 diabetes. <i>ELife</i> , 2015, 4, .	2.8	20
57	Large-scale spontaneous self-organization and maturation of skeletal muscle tissues on ultra-compliant gelatin hydrogel substrates. <i>Scientific Reports</i> , 2020, 10, 13305.	1.6	19
58	Skeletal Muscle-Specific Activation of Gq Signaling Maintains Glucose Homeostasis. <i>Diabetes</i> , 2019, 68, 1341-1352.	0.3	18
59	Chemical genetic screen identifies Gapex-5/GAPVD1 and STBD1 as novel AMPK substrates. <i>Cellular Signalling</i> , 2019, 57, 45-57.	1.7	18
60	Rapamycin and mTORC2 inhibition synergistically reduce contraction-stimulated muscle protein synthesis. <i>Journal of Physiology</i> , 2020, 598, 5453-5466.	1.3	17
61	c-Myc overexpression increases ribosome biogenesis and protein synthesis independent of mTORC1 activation in mouse skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2021, 321, E551-E559.	1.8	16
62	Periodized low protein-high carbohydrate diet confers potent, but transient, metabolic improvements. <i>Molecular Metabolism</i> , 2018, 17, 112-121.	3.0	15
63	Insulin-stimulated glucose uptake partly relies on p21-activated kinase (PAK)2, but not PAK1, in mouse skeletal muscle. <i>Journal of Physiology</i> , 2020, 598, 5351-5377.	1.3	15
64	Contraction-regulated mTORC1 and protein synthesis: Influence of AMPK and glycogen. <i>Journal of Physiology</i> , 2020, 598, 2637-2649.	1.3	15
65	The ULK1/2 and AMPK Inhibitor SBI-0206965 Blocks AICAR and Insulin-Stimulated Glucose Transport. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2344.	1.8	15
66	Clenbuterol exerts antidiabetic activity through metabolic reprogramming of skeletal muscle cells. <i>Nature Communications</i> , 2022, 13, 22.	5.8	15
67	The Gut Microbiome on a Periodized Low-Protein Diet Is Associated With Improved Metabolic Health. <i>Frontiers in Microbiology</i> , 2019, 10, 709.	1.5	14
68	Rac1 in Muscle Is Dispensable for Improved Insulin Action After Exercise in Mice. <i>Endocrinology</i> , 2016, 157, 3009-3015.	1.4	13
69	Mechanisms Underlying Absent Training-Induced Improvement in Insulin Action in Lean, Hyperandrogenic Women With Polycystic Ovary Syndrome. <i>Diabetes</i> , 2020, 69, 2267-2280.	0.3	13
70	5 α -AMP Activated Protein Kinase is Involved in the Regulation of Myocardial β -Oxidative Capacity in Mice. <i>Frontiers in Physiology</i> , 2012, 3, 33.	1.3	12
71	Electroporated GLUT4-myc-GFP detects in vivo glucose transporter 4 translocation in skeletal muscle without discernible changes in GFP patterns. <i>Experimental Physiology</i> , 2019, 104, 704-714.	0.9	12
72	Is contraction-stimulated glucose transport feedforward regulated by Ca ²⁺ ?. <i>Experimental Physiology</i> , 2014, 99, 1562-1568.	0.9	11

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73	RNA-bound PGC-1 β controls gene expression in liquid-like nuclear condensates. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	10
74	The p21-activated kinase 2 (PAK2), but not PAK1, regulates contraction-stimulated skeletal muscle glucose transport. Physiological Reports, 2020, 8, e14460.	0.7	9
75	β -MSH Stimulates Glucose Uptake in Mouse Muscle and Phosphorylates Rab-GTPase-Activating Protein TBC1D1 Independently of AMPK. PLoS ONE, 2016, 11, e0157027.	1.1	8
76	Low- and high-protein diets do not alter ex vivo insulin action in skeletal muscle. Physiological Reports, 2018, 6, e13798.	0.7	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.	1.7	7
78	Cancer causes dysfunctional insulin signaling and glucose transport in a muscle-type-specific manner. FASEB Journal, 2022, 36, e22211.	0.2	7
79	AXIN1 knockout does not alter AMPK/mTORC1 regulation and glucose metabolism in mouse skeletal muscle. Journal of Physiology, 2021, 599, 3081-3100.	1.3	6
80	In vivo metabolic effects after acute activation of skeletal muscle Gs signaling. Molecular Metabolism, 2022, 55, 101415.	3.0	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.	1.8	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.	3.9	3
83	Gene deletion of β -actin impairs insulin-stimulated skeletal muscle glucose uptake in growing mice but not in mature adult mice. Physiological Reports, 2022, 10, e15183.	0.7	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.	1.2	1
85	Reply from Lykke Sylow, Lisbeth L. V. Møller, Maximilian Kleinert, Erik A. Richter and Thomas E. Jensen. Journal of Physiology, 2015, 593, 2239-2240.	1.3	0
86	Muscle-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.	0.2	0
87	A novel AMPK activator, PTEN1, increases gamma1 AMPK-associated activity, but not gamma3 AMPK-associated activity or glucose transport. FASEB Journal, 2013, 27, 1169.3.	0.2	0
88	Rac1 is a novel regulator of stretch-induced glucose uptake in muscle. FASEB Journal, 2013, 27, 1152.7.	0.2	0