

# Lykke Sylow

## List of Publications by Citations

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59  
papers

1,875  
citations

24  
h-index

43  
g-index

68  
ext. papers

2,294  
ext. citations

5.5  
avg, IF

4.98  
L-index

#	Paper	IF	Citations
59	Exercise-stimulated glucose uptake - regulation and implications for glycaemic control. <i>Nature Reviews Endocrinology</i> , <b>2017</b> , 13, 133-148	15.2	201
58	Rac1 signaling is required for insulin-stimulated glucose uptake and is dysregulated in insulin-resistant murine and human skeletal muscle. <i>Diabetes</i> , <b>2013</b> , 62, 1865-75	0.9	128
57	Deletion of skeletal muscle SOCS3 prevents insulin resistance in obesity. <i>Diabetes</i> , <b>2013</b> , 62, 56-64	0.9	106
56	Rac1 signalling towards GLUT4/glucose uptake in skeletal muscle. <i>Cellular Signalling</i> , <b>2011</b> , 23, 1546-54	4.9	106
55	Rac1 is a novel regulator of contraction-stimulated glucose uptake in skeletal muscle. <i>Diabetes</i> , <b>2013</b> , 62, 1139-51	0.9	103
54	Akt and Rac1 signaling are jointly required for insulin-stimulated glucose uptake in skeletal muscle and downregulated in insulin resistance. <i>Cellular Signalling</i> , <b>2014</b> , 26, 323-31	4.9	101
53	Exercise Increases Human Skeletal Muscle Insulin Sensitivity via Coordinated Increases in Microvascular Perfusion and Molecular Signaling. <i>Diabetes</i> , <b>2017</b> , 66, 1501-1510	0.9	96
52	Cytosolic ROS production by NADPH oxidase 2 regulates muscle glucose uptake during exercise. <i>Nature Communications</i> , <b>2019</b> , 10, 4623	17.4	81
51	Overexpression of monocarboxylate transporter-1 (SLC16A1) in mouse pancreatic $\beta$ cells leads to relative hyperinsulinism during exercise. <i>Diabetes</i> , <b>2012</b> , 61, 1719-25	0.9	72
50	Rac1 governs exercise-stimulated glucose uptake in skeletal muscle through regulation of GLUT4 translocation in mice. <i>Journal of Physiology</i> , <b>2016</b> , 594, 4997-5008	3.9	71
49	Current understanding of increased insulin sensitivity after exercise - emerging candidates. <i>Acta Physiologica</i> , <b>2011</b> , 202, 323-35	5.6	70
48	Acute mTOR inhibition induces insulin resistance and alters substrate utilization in vivo. <i>Molecular Metabolism</i> , <b>2014</b> , 3, 630-41	8.8	57
47	Contraction-stimulated glucose transport in muscle is controlled by AMPK and mechanical stress but not sarcoplasmic reticulum Ca(2+) release. <i>Molecular Metabolism</i> , <b>2014</b> , 3, 742-53	8.8	54
46	LKB1 regulates lipid oxidation during exercise independently of AMPK. <i>Diabetes</i> , <b>2013</b> , 62, 1490-9	0.9	54
45	Stretch-stimulated glucose transport in skeletal muscle is regulated by Rac1. <i>Journal of Physiology</i> , <b>2015</b> , 593, 645-56	3.9	42
44	PT-1 selectively activates AMPK- $\alpha$ complexes in mouse skeletal muscle, but activates all three $\alpha$ subunit complexes in cultured human cells by inhibiting the respiratory chain. <i>Biochemical Journal</i> , <b>2015</b> , 467, 461-72	3.8	41
43	Rac1 and AMPK Account for the Majority of Muscle Glucose Uptake Stimulated by Ex Vivo Contraction but Not In Vivo Exercise. <i>Diabetes</i> , <b>2017</b> , 66, 1548-1559	0.9	37

42	mTORC2 and AMPK differentially regulate muscle triglyceride content via Perilipin 3. <i>Molecular Metabolism</i> , <b>2016</b> , 5, 646-655	8.8	37
41	Mammalian target of rapamycin complex 2 regulates muscle glucose uptake during exercise in mice. <i>Journal of Physiology</i> , <b>2017</b> , 595, 4845-4855	3.9	30
40	Current advances in our understanding of exercise as medicine in metabolic disease. <i>Current Opinion in Physiology</i> , <b>2019</b> , 12, 12-19	2.6	28
39	The many actions of insulin in skeletal muscle, the paramount tissue determining glycemia. <i>Cell Metabolism</i> , <b>2021</b> , 33, 758-780	24.6	28
38	Rho GTPases-Emerging Regulators of Glucose Homeostasis and Metabolic Health. <i>Cells</i> , <b>2019</b> , 8,	7.9	24
37	Differential effects of high-fat diet and exercise training on bone and energy metabolism. <i>Bone</i> , <b>2018</b> , 116, 120-134	4.7	24
36	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> , <b>2018</b> , 596, 2283-2299	3.9	24
35	Mechanisms involved in follistatin-induced hypertrophy and increased insulin action in skeletal muscle. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , <b>2019</b> , 10, 1241-1257	10.3	24
34	Housing temperature influences exercise training adaptations in mice. <i>Nature Communications</i> , <b>2020</b> , 11, 1560	17.4	23
33	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> , <b>2018</b> , 8, 10723	4.9	22
32	Phosphoproteomics reveals conserved exercise-stimulated signaling and AMPK regulation of store-operated calcium entry. <i>EMBO Journal</i> , <b>2019</b> , 38, e102578	13	22
31	Rac1--a novel regulator of contraction-stimulated glucose uptake in skeletal muscle. <i>Experimental Physiology</i> , <b>2014</b> , 99, 1574-80	2.4	22
30	AMPK and insulin action--responses to ageing and high fat diet. <i>PLoS ONE</i> , <b>2013</b> , 8, e62338	3.7	21
29	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> , <b>2018</b> , 315, E110-E125	6	14
28	Endothelial mechanotransduction proteins and vascular function are altered by dietary sucrose supplementation in healthy young male subjects. <i>Journal of Physiology</i> , <b>2017</b> , 595, 5557-5571	3.9	13
27	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> , <b>2020</b> , 105, 154169	12.7	11
26	Rac1 in Muscle Is Dispensable for Improved Insulin Action After Exercise in Mice. <i>Endocrinology</i> , <b>2016</b> , 157, 3009-15	4.8	11
25	Circulating Follistatin and Activin A and Their Regulation by Insulin in Obesity and Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2020</b> , 105,	5.6	10

24	Insulin-stimulated glucose uptake partly relies on p21-activated kinase (PAK)2, but not PAK1, in mouse skeletal muscle. <i>Journal of Physiology</i> , <b>2020</b> , 598, 5351-5377	3.9	10
23	Is contraction-stimulated glucose transport feedforward regulated by Ca <sup>2+</sup> ?. <i>Experimental Physiology</i> , <b>2014</b> , 99, 1562-8	2.4	9
22	Regulation of glycogen synthase in muscle and its role in Type 2 diabetes. <i>Diabetes Management</i> , <b>2013</b> , 3, 81-90	0	6
21	The p21-activated kinase 2 (PAK2), but not PAK1, regulates contraction-stimulated skeletal muscle glucose transport. <i>Physiological Reports</i> , <b>2020</b> , 8, e14460	2.6	6
20	Effect of hypoxic exercise on glucose tolerance in healthy and prediabetic adults. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2021</b> , 320, E43-E54	6	5
19	Acute systemic insulin intolerance does not alter the response of the Akt/GSK-3 pathway to environmental hypoxia in human skeletal muscle. <i>European Journal of Applied Physiology</i> , <b>2015</b> , 115, 1219-31	3.4	4
18	Decreased spontaneous activity in AMPK $\alpha$ muscle specific kinase dead mice is not caused by changes in brain dopamine metabolism. <i>Physiology and Behavior</i> , <b>2016</b> , 164, 300-5	3.5	4
17	Integrin-associated ILK and PINCH1 protein content are reduced in skeletal muscle of maintenance haemodialysis patients. <i>Journal of Physiology</i> , <b>2020</b> , 598, 5701-5716	3.9	3
16	Exercise-A Panacea of Metabolic Dysregulation in Cancer: Physiological and Molecular Insights. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
15	Cytosolic ROS production by NADPH oxidase 2 regulates muscle glucose uptake during exercise		2
14	Housing temperature influences exercise training adaptations in mice		2
13	Incidence of New-Onset Type 2 Diabetes After Cancer: A Danish Cohort Study. <i>Diabetes Care</i> , <b>2022</b> , 45, e105-e106	14.6	2
12	Tyrosine 397 phosphorylation is critical for FAK-promoted Rac1 activation and invasive properties in oral squamous cell carcinoma cells. <i>Laboratory Investigation</i> , <b>2016</b> , 96, 1026	5.9	1
11	Insulin-stimulated glucose uptake partly relies on p21-activated kinase (PAK)-2, but not PAK1, in mouse skeletal muscle		1
10	Mechanisms involved in follistatin-induced hypertrophy and increased insulin action in skeletal muscle		1
9	The Cancer Drug Dasatinib Increases PGC-1 $\alpha$ in Adipose Tissue but Has Adverse Effects on Glucose Tolerance in Obese Mice. <i>Endocrinology</i> , <b>2016</b> , 157, 4184-4191	4.8	1
8	Effects of Roux-en-Y gastric bypass on circulating follistatin, activin A, and peripheral ActRIIB signaling in humans with obesity and type 2 diabetes. <i>International Journal of Obesity</i> , <b>2021</b> , 45, 316-325	5.5	1
7	Genetic variation of macronutrient tolerance in <i>Drosophila melanogaster</i> .. <i>Nature Communications</i> , <b>2022</b> , 13, 1637	17.4	1

- 6 Interactions between insulin and exercise. *Biochemical Journal*, **2021**, 478, 3827-3846 3.8 0
- 5 Cancer causes dysfunctional insulin signaling and glucose transport in a muscle-type-specific manner.. *FASEB Journal*, **2022**, 36, e22211 0.9 0
- 4 Reply from Lykke Sylow, Lisbeth L. V. Møller, Maximilian Kleinert, Erik A. Richter and Thomas E. Jensen. *Journal of Physiology*, **2015**, 593, 2239-40 3.9
- 3 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 0.9
- 2 Rac1 is a novel regulator of stretch-induced glucose uptake in muscle. *FASEB Journal*, **2013**, 27, 1152.7 0.9
- 1 Exercise-Regulated Skeletal Muscle Glucose Uptake. *Physiology in Health and Disease*, **2022**, 115-136 0.2