Maximilian Kleinert

List of Publications by Year
in descending order

50	3,370	201674 27	243625 44
papers	citations	h-index	g-index

53	53	53	5430
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Animal models of obesity and diabetes mellitus. Nature Reviews Endocrinology, 2018, 14, 140-162.	9.6	563
2	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
3	Exercise-stimulated glucose uptake â€" regulation and implications for glycaemic control. Nature Reviews Endocrinology, 2017, 13, 133-148.	9.6	312
4	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
5	Chemical Hybridization of Glucagon and Thyroid Hormone Optimizes Therapeutic Impact for Metabolic Disease. Cell, 2016, 167, 843-857.e14.	28.9	153
6	Rac1 Is a Novel Regulator of Contraction-Stimulated Glucose Uptake in Skeletal Muscle. Diabetes, 2013, 62, 1139-1151.	0.6	126
7	Exercise Increases Human Skeletal Muscle Insulin Sensitivity via Coordinated Increases in Microvascular Perfusion and Molecular Signaling. Diabetes, 2017, 66, 1501-1510.	0.6	120
8	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
9	Exercise increases circulating GDF15 in humans. Molecular Metabolism, 2018, 9, 187-191.	6.5	109
10	Transcriptional programming of lipid and amino acid metabolism by the skeletal muscle circadian clock. PLoS Biology, 2018, 16, e2005886.	5.6	107
11	Targeted pharmacological therapy restores Î²-cell function for diabetes remission. Nature Metabolism, 2020, 2, 192-209.	11.9	93
12	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
13	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
14	Glucagon Regulation of Energy Expenditure. International Journal of Molecular Sciences, 2019, 20, 5407.	4.1	70
15	Pharmacological but not physiological GDF15 suppresses feeding and the motivation to exercise. Nature Communications, 2021, 12, 1041.	12.8	69
16	Acute mTOR inhibition induces insulin resistance and alters substrate utilization inÂvivo. Molecular Metabolism, 2014, 3, 630-641.	6.5	68
17	The RabGAP TBC1D1 Plays a Central Role in Exercise-Regulated Glucose Metabolism in Skeletal Muscle. Diabetes, 2015, 64, 1914-1922.	0.6	62
18	Rac1 â€" a novel regulator of contractionâ€stimulated glucose uptake in skeletal muscle. Experimental Physiology, 2014, 99, 1574-1580.	2.0	58

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19	Stretchâ€stimulated glucose transport in skeletal muscle is regulated by Rac1. Journal of Physiology, 2015, 593, 645-656.	2.9	58
20	The Role of GDF15 as a Myomitokine. Cells, 2021, 10, 2990.	4.1	52
21	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
22	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
23	mTORC2 and AMPK differentially regulate muscle triglyceride content via Perilipin 3. Molecular Metabolism, 2016, 5, 646-655.	6.5	44
24	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
25	Mammalian target of rapamycin complex 2 regulates muscle glucose uptake during exercise in mice. Journal of Physiology, 2017, 595, 4845-4855.	2.9	43
26	Coordinated targeting of cold and nicotinic receptors synergistically improves obesity and type 2 diabetes. Nature Communications, 2018, 9, 4304.	12.8	41
27	Growth Factor-Dependent and -Independent Activation of mTORC2. Trends in Endocrinology and Metabolism, 2020, 31, 13-24.	7.1	31
28	Leukemia inhibitory factor increases glucose uptake in mouse skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E142-E153.	3.5	28
29	GDF15 in Appetite and Exercise: Essential Player or Coincidental Bystander?. Endocrinology, 2022, 163, .	2.8	26
30	Time-resolved hypothalamic open flow micro-perfusion reveals normal leptin transport across the bloodâ€“brain barrier in leptin resistant mice. Molecular Metabolism, 2018, 13, 77-82.	6.5	25
31	Effect of bariatric surgery on plasma GDF15 in humans. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E615-E621.	3.5	25
32	ApoA-1 improves glucose tolerance by increasing glucose uptake into heart and skeletal muscle independently of AMPKÎ±2. Molecular Metabolism, 2020, 35, 100949.	6.5	25
33	Glucometabolic consequences of acute and prolonged inhibition of fatty acid oxidation. Journal of Lipid Research, 2020, 61, 10-19.	4.2	23
34	Glucagon's Metabolic Action in Health and Disease. , 2021, 11, 1759-1783.		21
35	Small Amounts of Dietary Medium-Chain Fatty Acids Protect Against Insulin Resistance During Caloric Excess in Humans. Diabetes, 2021, 70, 91-98.	0.6	18
36	Periodized low protein-high carbohydrate diet confers potent, but transient, metabolic improvements. Molecular Metabolism, 2018, 17, 112-121.	6.5	15

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37	Clenbuterol exerts antidiabetic activity through metabolic reprogramming of skeletal muscle cells. Nature Communications, 2022, 13, 22.	12.8	15
38	Plasma proteome profiles treatment efficacy of incretin dual agonism in dietâ€induced obese female and male mice. Diabetes, Obesity and Metabolism, 2021, 23, 195-207.	4.4	12
39	Pharmacological targeting of Î±3Î²4 nicotinic receptors improves peripheral insulin sensitivity in mice with diet-induced obesity. Diabetologia, 2020, 63, 1236-1247.	6.3	9
40	Regulation of glycogen synthase in muscle and its role in Type 2 diabetes. Diabetes Management, 2013, 3, 81-90.	0.5	8
41	A New FGF21 Analog for the Treatment of Fatty Liver Disease. Diabetes, 2020, 69, 1605-1607.	0.6	8
42	Genes controlling skeletal muscle glucose uptake and their regulation by endurance and resistance exercise. Journal of Cellular Biochemistry, 2022, 123, 202-214.	2.6	7
43	InÂvivo metabolic effects after acute activation of skeletal muscle Gs signaling. Molecular Metabolism, 2022, 55, 101415.	6.5	5
44	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
45	Teaching an old dog new tricks: metformin induces body-weight loss via GDF15. Nature Metabolism, 2019, 1, 1171-1172.	11.9	2
46	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
47	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
48	Rac1 is a novel regulator of stretchâ€induced glucose uptake in muscle. FASEB Journal, 2013, 27, 1152.7.	0.5	0
49	Leukemia inhibitory factor stimulates muscle glucose uptake by a PI3â€kinase dependent pathway that is maintained in white muscle in obesity (1162.4). FASEB Journal, 2014, 28, 1162.4.	0.5	0
50	Chronic Beta2â€Adrenergic Receptor Stimulation Improves Wholeâ€Body Glucose Homeostasis through Skeletal Muscle Metabolic Reprogramming. FASEB Journal, 2018, 32, 533.43.	0.5	0