

Simon Schenk

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

7,822
citations

109321

35
h-index

58581

82
g-index

92
all docs

92
docs citations

92
times ranked

11663
citing authors

#	ARTICLE	IF	CITATIONS
1	p300 or CBP is required for insulin-stimulated glucose uptake in skeletal muscle and adipocytes. JCI Insight, 2022, 7, .	5.0	3
2	Cancer-cell-secreted miR-122 suppresses O-GlcNAcylation to promote skeletal muscle proteolysis. Nature Cell Biology, 2022, 24, 793-804.	10.3	29
3	Skeletal muscle gene expression in older adults with type 2 diabetes mellitus undergoing calorie-restricted diet and recreational sports training - a randomized clinical trial. Experimental Gerontology, 2022, 164, 111831.	2.8	5
4	Paraspinal Muscle Health is Related to Fibrogenic, Adipogenic, and Myogenic Gene Expression in Patients with Lumbar Spine Pathology. BMC Musculoskeletal Disorders, 2022, 23, .	1.9	2
5	Surgical site peptidylarginine deaminase 4 (PAD4), a biomarker of NETosis, correlates with insulin resistance in total joint arthroplasty patients: A preliminary report. PLoS ONE, 2021, 16, e0245594.	2.5	3
6	Analgesic Medication Use During Exercise-Based Rehabilitation in Individuals With Low Back Pain: A Call to Action. Physical Therapy, 2021, 101, .	2.4	1
7	Quantifying the Effects of Aging on Morphological and Cellular Properties of Human Female Pelvic Floor Muscles. Annals of Biomedical Engineering, 2021, 49, 1836-1847.	2.5	10
8	Sex-based differences in contraction-stimulated glucose uptake by mouse skeletal muscle. FASEB Journal, 2021, 35, .	0.5	0
9	Interrupting Sitting Time in Postmenopausal Women: Protocol for the Rise for Health Randomized Controlled Trial. JMIR Research Protocols, 2021, 10, e28684.	1.0	2
10	Sirtuin 1 is not required for contraction-stimulated glucose uptake in mouse skeletal muscle. Journal of Applied Physiology, 2021, 130, 1893-1902.	2.5	3
11	Skeletal muscle maximal mitochondrial activity in ambulatory children with cerebral palsy. Developmental Medicine and Child Neurology, 2021, 63, 1194-1203.	2.1	10
12	Abstract 11460: Antibodies to Citrullinated Protein Antigens Are Associated with Inflammatory Markers in a Multi-Ethnic Community-Living Population: The Multi-Ethnic Study of Atherosclerosis. Circulation, 2021, 144, .	1.6	0
13	p300 and cAMP response element-binding protein-binding protein in skeletal muscle homeostasis, contractile function, and survival. Journal of Cachexia, Sarcopenia and Muscle, 2020, 11, 464-477.	7.3	18
14	Combined overexpression of SIRT1 and knockout of GCN5 in adult skeletal muscle does not affect glucose homeostasis or exercise performance in mice. American Journal of Physiology - Endocrinology and Metabolism, 2020, 318, E145-E151.	3.5	16
15	Metabolic Syndrome Is Associated With Higher Risk of Wound Complications After Total Hip Arthroplasty. Arthroplasty Today, 2020, 6, 571-577.	1.6	6
16	Maternal Obesity and Western-Style Diet Impair Fetal and Juvenile Offspring Skeletal Muscle Insulin-Stimulated Glucose Transport in Nonhuman Primates. Diabetes, 2020, 69, 1389-1400.	0.6	21
17	Acute inhibition of protein deacetylases does not impact skeletal muscle insulin action. American Journal of Physiology - Cell Physiology, 2019, 317, C964-C968.	4.6	3
18	Skeletal muscle mitochondrial function and exercise capacity are not impaired in mice with knockout of STAT3. Journal of Applied Physiology, 2019, 127, 1117-1127.	2.5	4

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19	Germline or inducible knockout of p300 or CBP in skeletal muscle does not alter insulin sensitivity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 316, E1024-E1035.	3.5	7
20	SIRT1 regulates nuclear number and domain size in skeletal muscle fibers. <i>Journal of Cellular Physiology</i> , 2018, 233, 7157-7163.	4.1	26
21	Human-like Cmah inactivation in mice increases running endurance and decreases muscle fatigability: implications for human evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181656.	2.6	21
22	Calorie Restriction-Induced Increase in Skeletal Muscle Insulin Sensitivity Is Not Prevented by Overexpression of the p53 Subunit of Phosphoinositide 3-Kinase. <i>Frontiers in Physiology</i> , 2018, 9, 789.	2.8	8
23	Cysteine- and glycine-rich protein 3 regulates glucose homeostasis in skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E267-E278.	3.5	8
24	Defining the contribution of skeletal muscle pyruvate dehydrogenase ± 1 to exercise performance and insulin action. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E1034-E1045.	3.5	15
25	Heterogeneous muscle gene expression patterns in patients with massive rotator cuff tears. <i>PLoS ONE</i> , 2018, 13, e0190439.	2.5	8
26	Letrozole Treatment of Pubertal Female Mice Results in Impaired Insulin Action in Skeletal Muscle. <i>FASEB Journal</i> , 2018, 32, lb382.	0.5	0
27	Histological Evidence of Muscle Degeneration in Advanced Human Rotator Cuff Disease. <i>Journal of Bone and Joint Surgery - Series A</i> , 2017, 99, 190-199.	3.0	70
28	Dried Plum Ingestion Increases the Osteoblastogenic Capacity of Human Serum. <i>Journal of Medicinal Food</i> , 2017, 20, 653-658.	1.5	5
29	Temporal overexpression of SIRT1 in skeletal muscle of adult mice does not improve insulin sensitivity or markers of mitochondrial biogenesis. <i>Acta Physiologica</i> , 2017, 221, 193-203.	3.8	21
30	Diabetes reversal by inhibition of the low-molecular-weight tyrosine phosphatase. <i>Nature Chemical Biology</i> , 2017, 13, 624-632.	8.0	56
31	mTOR regulates peripheral nerve response to tensile strain. <i>Journal of Neurophysiology</i> , 2017, 117, 2075-2084.	1.8	21
32	Specific Sirt1 Activator-mediated Improvement in Glucose Homeostasis Requires Sirt1-Independent Activation of AMPK. <i>EBioMedicine</i> , 2017, 18, 128-138.	6.1	30
33	Exercise and high-fat feeding remodel transcript-metabolite interactive networks in mouse skeletal muscle. <i>Scientific Reports</i> , 2017, 7, 13485.	3.3	16
34	Muscle-specific knockout of general control of amino acid synthesis 5 (GCN5) does not enhance basal or endurance exercise-induced mitochondrial adaptation. <i>Molecular Metabolism</i> , 2017, 6, 1574-1584.	6.5	17
35	Overload-mediated skeletal muscle hypertrophy is not impaired by loss of myofiber STAT3. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 313, C257-C261.	4.6	8
36	Skeletal muscle fiber-type specific succinate dehydrogenase activity in cerebral palsy. <i>Muscle and Nerve</i> , 2017, 55, 122-124.	2.2	19

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37	Acute glucoregulatory and vascular outcomes of three strategies for interrupting prolonged sitting time in postmenopausal women: A pilot, laboratory-based, randomized, controlled, 4-condition, 4-period crossover trial. PLoS ONE, 2017, 12, e0188544.	2.5	24
38	Muscle architectural changes after massive human rotator cuff tear. Journal of Orthopaedic Research, 2016, 34, 2089-2095.	2.3	21
39	Skeletal muscle action of estrogen receptor α is critical for the maintenance of mitochondrial function and metabolic homeostasis in females. Science Translational Medicine, 2016, 8, 334ra54.	12.4	174
40	p300 is not required for metabolic adaptation to endurance exercise training. FASEB Journal, 2016, 30, 1623-1633.	0.5	21
41	Perm1 enhances mitochondrial biogenesis, oxidative capacity, and fatigue resistance in adult skeletal muscle. FASEB Journal, 2016, 30, 674-687.	0.5	46
42	Maternal obesity reduces oxidative capacity in fetal skeletal muscle of Japanese macaques. JCI Insight, 2016, 1, e86612.	5.0	58
43	One-time injection of AAV8 encoding urocortin 2 provides long-term resolution of insulin resistance. JCI Insight, 2016, 1, e88322.	5.0	23
44	Rapamycin does not prevent increases in myofibrillar or mitochondrial protein synthesis following endurance exercise. Journal of Physiology, 2015, 593, 4275-4284.	2.9	54
45	Is Acetylation a Metabolic Rheostat that Regulates Skeletal Muscle Insulin Action?. Molecules and Cells, 2015, 38, 297-303.	2.6	15
46	Knockout of STAT3 in skeletal muscle does not prevent high-fat diet-induced insulin resistance. Molecular Metabolism, 2015, 4, 569-575.	6.5	25
47	Knock-Down of IL-1Ra in Obese Mice Decreases Liver Inflammation and Improves Insulin Sensitivity. PLoS ONE, 2014, 9, e107487.	2.5	20
48	Interaction between Lipid Availability, Endurance Exercise and Insulin Sensitivity. Medicine and Sport Science, 2014, 60, 62-70.	1.4	2
49	Muscle Gene Expression Patterns in Human Rotator Cuff Pathology. Journal of Bone and Joint Surgery - Series A, 2014, 96, 1558-1565.	3.0	28
50	Application of the [32 P] ATP kinase assay to study anabolic signaling in human skeletal muscle. Journal of Applied Physiology, 2014, 116, 504-513.	2.5	34
51	Understanding the acetylome: translating targeted proteomics into meaningful physiology. American Journal of Physiology - Cell Physiology, 2014, 307, C763-C773.	4.6	36
52	High-fat diet-induced impairment of skeletal muscle insulin sensitivity is not prevented by SIRT1 overexpression. American Journal of Physiology - Endocrinology and Metabolism, 2014, 307, E764-E772.	3.5	38
53	Increased Adipocyte O ₂ Consumption Triggers HIF-1 α , Causing Inflammation and Insulin Resistance in Obesity. Cell, 2014, 157, 1339-1352.	28.9	443
54	Skeletal muscle-specific overexpression of SIRT1 does not enhance whole-body energy expenditure or insulin sensitivity in young mice. Diabetologia, 2013, 56, 1629-1637.	6.3	40

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55	Ceramides Contained in LDL Are Elevated in Type 2 Diabetes and Promote Inflammation and Skeletal Muscle Insulin Resistance. <i>Diabetes</i> , 2013, 62, 401-410.	0.6	240
56	Role of the cytoskeleton in muscle transcriptional responses to altered use. <i>Physiological Genomics</i> , 2013, 45, 321-331.	2.3	11
57	Unraveling the Complexities of SIRT1-Mediated Mitochondrial Regulation in Skeletal Muscle. <i>Exercise and Sport Sciences Reviews</i> , 2013, 41, 174-181.	3.0	37
58	Systemic fatty acid uptake and skeletal muscle inflammatory pathway activation may contribute to the variability in insulin sensitivity found in obesity. <i>FASEB Journal</i> , 2013, 27, 855.8.	0.5	0
59	NAD ⁺ /NADH and skeletal muscle mitochondrial adaptations to exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 303, E308-E321.	3.5	140
60	G protein-coupled receptor 21 deletion improves insulin sensitivity in diet-induced obese mice. <i>Journal of Clinical Investigation</i> , 2012, 122, 2444-2453.	8.2	49
61	Skeletal muscle Nur77 expression enhances oxidative metabolism and substrate utilization. <i>Journal of Lipid Research</i> , 2012, 53, 2610-2619.	4.2	65
62	New Opportunities and Novel Paradigms to Support Neuromuscular Research. <i>Physical Medicine and Rehabilitation Clinics of North America</i> , 2012, 23, 95-105.	1.3	0
63	Attenuated <i>Pik3r1</i> Expression Prevents Insulin Resistance and Adipose Tissue Macrophage Accumulation in Diet-Induced Obese Mice. <i>Diabetes</i> , 2012, 61, 2495-2505.	0.6	47
64	Commentaries on Viewpoint: Does SIRT1 determine exercise-induced skeletal muscle mitochondrial biogenesis: differences between in vitro and in vivo experiments?. <i>Journal of Applied Physiology</i> , 2012, 112, 929-930.	2.5	2
65	Sirtuin 1 (SIRT1) Deacetylase Activity Is Not Required for Mitochondrial Biogenesis or Peroxisome Proliferator-activated Receptor- β Coactivator-1 α (PGC-1 α) Deacetylation following Endurance Exercise. <i>Journal of Biological Chemistry</i> , 2011, 286, 30561-30570.	3.4	156
66	High fatty acid availability after exercise alters the regulation of muscle lipid metabolism. <i>Metabolism: Clinical and Experimental</i> , 2011, 60, 852-859.	3.4	30
67	The PGC-1 α -related coactivator promotes mitochondrial and myogenic adaptations in C2C12 myotubes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R864-R872.	1.8	35
68	Sirt1 enhances skeletal muscle insulin sensitivity in mice during caloric restriction. <i>Journal of Clinical Investigation</i> , 2011, 121, 4281-4288.	8.2	164
69	Mechanisms Mediating Obesity-Induced Inflammation and Insulin Resistance. , 2011, , 199-214.		0
70	A new antidiabetic compound attenuates inflammation and insulin resistance in Zucker diabetic fatty rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 298, E1036-E1048.	3.5	38
71	Inducible Nitric Oxide Synthase Deficiency in Myeloid Cells Does Not Prevent Diet-Induced Insulin Resistance. <i>Molecular Endocrinology</i> , 2010, 24, 1413-1422.	3.7	19
72	Energy deficit after exercise augments lipid mobilization but does not contribute to the exercise-induced increase in insulin sensitivity. <i>Journal of Applied Physiology</i> , 2010, 108, 554-560.	2.5	52

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73	SIRT1 inhibits inflammatory pathways in macrophages and modulates insulin sensitivity. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E419-E428.	3.5	339
74	SIRT1 Exerts Anti-Inflammatory Effects and Improves Insulin Sensitivity in Adipocytes. Molecular and Cellular Biology, 2009, 29, 1363-1374.	2.3	382
75	A Novel Pathway of Insulin Sensitivity in Chromogranin A Null Mice. Journal of Biological Chemistry, 2009, 284, 28498-28509.	3.4	87
76	Novel liver-specific TORC2 siRNA corrects hyperglycemia in rodent models of type 2 diabetes. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E1137-E1146.	3.5	62
77	Improved insulin sensitivity after weight loss and exercise training is mediated by a reduction in plasma fatty acid mobilization, not enhanced oxidative capacity. Journal of Physiology, 2009, 587, 4949-4961.	2.9	80
78	Hematopoietic Cell-Specific Deletion of Toll-like Receptor 4 Ameliorates Hepatic and Adipose Tissue Insulin Resistance in High-Fat-Fed Mice. Cell Metabolism, 2009, 10, 419-429.	16.2	394
79	Discovery of Imidazo[1,2- <i>b</i>]thiazole Derivatives as Novel SIRT1 Activators. Journal of Medicinal Chemistry, 2009, 52, 1275-1283.	6.4	112
80	A fasting inducible switch modulates gluconeogenesis via activator/coactivator exchange. Nature, 2008, 456, 269-273.	27.8	481
81	Insulin sensitivity: modulation by nutrients and inflammation. Journal of Clinical Investigation, 2008, 118, 2992-3002.	8.2	980
82	Fat oxidation tracks with fatty acid availability at low but not high plasma fatty acid concentrations. FASEB Journal, 2008, 22, 1088.3.	0.5	0
83	Small molecule activators of SIRT1 as therapeutics for the treatment of type 2 diabetes. Nature, 2007, 450, 712-716.	27.8	1,565
84	Acute exercise increases triglyceride synthesis in skeletal muscle and prevents fatty acid-induced insulin resistance. Journal of Clinical Investigation, 2007, 117, 1690-1698.	8.2	333
85	Coimmunoprecipitation of FAT/CD36 and CPT I in skeletal muscle increases proportionally with fat oxidation after endurance exercise training. American Journal of Physiology - Endocrinology and Metabolism, 2006, 291, E254-E260.	3.5	87
86	Postexercise insulin sensitivity is not impaired after an overnight lipid infusion. American Journal of Physiology - Endocrinology and Metabolism, 2005, 288, E519-E525.	3.5	48
87	Alterations in carbohydrate metabolism in response to short-term dietary carbohydrate restriction. American Journal of Physiology - Endocrinology and Metabolism, 2005, 289, E306-E312.	3.5	38
88	Effects of Dietary Carbohydrate Restriction with High Protein Intake on Protein Metabolism and the Somatotrophic Axis. Journal of Clinical Endocrinology and Metabolism, 2005, 90, 5175-5181.	3.6	48
89	Manipulation of dietary carbohydrate and muscle glycogen affects glucose uptake during exercise when fat oxidation is impaired by β -adrenergic blockade. American Journal of Physiology - Endocrinology and Metabolism, 2004, 287, E1195-E1201.	3.5	15
90	High-fat diet elevates resting intramuscular triglyceride concentration and whole body lipolysis during exercise. American Journal of Physiology - Endocrinology and Metabolism, 2004, 286, E217-E225.	3.5	92