

# Simon Schenk

## List of Publications by Year in descending order

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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	Small molecule activators of SIRT1 as therapeutics for the treatment of type 2 diabetes. <i>Nature</i> , 2007, 450, 712-716.	27.8	1,565
2	Insulin sensitivity: modulation by nutrients and inflammation. <i>Journal of Clinical Investigation</i> , 2008, 118, 2992-3002.	8.2	980
3	A fasting inducible switch modulates gluconeogenesis via activator/coactivator exchange. <i>Nature</i> , 2008, 456, 269-273.	27.8	481
4	Increased Adipocyte O <sub>2</sub> Consumption Triggers HIF-1 $\alpha$ , Causing Inflammation and Insulin Resistance in Obesity. <i>Cell</i> , 2014, 157, 1339-1352.	28.9	443
5	Hematopoietic Cell-Specific Deletion of Toll-like Receptor 4 Ameliorates Hepatic and Adipose Tissue Insulin Resistance in High-Fat-Fed Mice. <i>Cell Metabolism</i> , 2009, 10, 419-429.	16.2	394
6	SIRT1 Exerts Anti-Inflammatory Effects and Improves Insulin Sensitivity in Adipocytes. <i>Molecular and Cellular Biology</i> , 2009, 29, 1363-1374.	2.3	382
7	SIRT1 inhibits inflammatory pathways in macrophages and modulates insulin sensitivity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 298, E419-E428.	3.5	339
8	Acute exercise increases triglyceride synthesis in skeletal muscle and prevents fatty acid-induced insulin resistance. <i>Journal of Clinical Investigation</i> , 2007, 117, 1690-1698.	8.2	333
9	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
10	Skeletal muscle action of estrogen receptor $\alpha$ is critical for the maintenance of mitochondrial function and metabolic homeostasis in females. <i>Science Translational Medicine</i> , 2016, 8, 334ra54.	12.4	174
11	Sirt1 enhances skeletal muscle insulin sensitivity in mice during caloric restriction. <i>Journal of Clinical Investigation</i> , 2011, 121, 4281-4288.	8.2	164
12	Sirtuin 1 (SIRT1) Deacetylase Activity Is Not Required for Mitochondrial Biogenesis or Peroxisome Proliferator-activated Receptor- $\beta$ Coactivator-1 $\alpha$ (PGC-1 $\alpha$ ) Deacetylation following Endurance Exercise. <i>Journal of Biological Chemistry</i> , 2011, 286, 30561-30570.	3.4	156
13	NAD <sup>+</sup> /NADH and skeletal muscle mitochondrial adaptations to exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 303, E308-E321.	3.5	140
14	Discovery of Imidazo[1,2- <i>b</i> ]thiazole Derivatives as Novel SIRT1 Activators. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 1275-1283.	6.4	112
15	High-fat diet elevates resting intramuscular triglyceride concentration and whole body lipolysis during exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004, 286, E217-E225.	3.5	92
16	Coimmunoprecipitation of FAT/CD36 and CPT I in skeletal muscle increases proportionally with fat oxidation after endurance exercise training. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 291, E254-E260.	3.5	87
17	A Novel Pathway of Insulin Sensitivity in Chromogranin A Null Mice. <i>Journal of Biological Chemistry</i> , 2009, 284, 28498-28509.	3.4	87
18	Improved insulin sensitivity after weight loss and exercise training is mediated by a reduction in plasma fatty acid mobilization, not enhanced oxidative capacity. <i>Journal of Physiology</i> , 2009, 587, 4949-4961.	2.9	80

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19	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
20	Skeletal muscle Nur77 expression enhances oxidative metabolism and substrate utilization. <i>Journal of Lipid Research</i> , 2012, 53, 2610-2619.	4.2	65
21	Novel liver-specific TORC2 siRNA corrects hyperglycemia in rodent models of type 2 diabetes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 297, E1137-E1146.	3.5	62
22	Maternal obesity reduces oxidative capacity in fetal skeletal muscle of Japanese macaques. <i>JCI Insight</i> , 2016, 1, e86612.	5.0	58
23	Diabetes reversal by inhibition of the low-molecular-weight tyrosine phosphatase. <i>Nature Chemical Biology</i> , 2017, 13, 624-632.	8.0	56
24	Rapamycin does not prevent increases in myofibrillar or mitochondrial protein synthesis following endurance exercise. <i>Journal of Physiology</i> , 2015, 593, 4275-4284.	2.9	54
25	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
26	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
27	Postexercise insulin sensitivity is not impaired after an overnight lipid infusion. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005, 288, E519-E525.	3.5	48
28	Effects of Dietary Carbohydrate Restriction with High Protein Intake on Protein Metabolism and the Somatotrophic Axis. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005, 90, 5175-5181.	3.6	48
29	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
30	Perm1 enhances mitochondrial biogenesis, oxidative capacity, and fatigue resistance in adult skeletal muscle. <i>FASEB Journal</i> , 2016, 30, 674-687.	0.5	46
31	Skeletal muscle-specific overexpression of SIRT1 does not enhance whole-body energy expenditure or insulin sensitivity in young mice. <i>Diabetologia</i> , 2013, 56, 1629-1637.	6.3	40
32	Alterations in carbohydrate metabolism in response to short-term dietary carbohydrate restriction. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005, 289, E306-E312.	3.5	38
33	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
34	High-fat diet-induced impairment of skeletal muscle insulin sensitivity is not prevented by SIRT1 overexpression. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 307, E764-E772.	3.5	38
35	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
36	Understanding the acetylome: translating targeted proteomics into meaningful physiology. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 307, C763-C773.	4.6	36

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37	The PGC-1 $\beta$ -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
38	Application of the [ $^{13}\text{C}$ ] ATP kinase assay to study anabolic signaling in human skeletal muscle. <i>Journal of Applied Physiology</i> , 2014, 116, 504-513.	2.5	34
39	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
40	Specific Sirt1 Activator-mediated Improvement in Glucose Homeostasis Requires Sirt1-Independent Activation of AMPK. <i>EBioMedicine</i> , 2017, 18, 128-138.	6.1	30
41	Cancer-cell-secreted miR-122 suppresses O-GlcNAcylation to promote skeletal muscle proteolysis. <i>Nature Cell Biology</i> , 2022, 24, 793-804.	10.3	29
42	Muscle Gene Expression Patterns in Human Rotator Cuff Pathology. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, 1558-1565.	3.0	28
43	SIRT1 regulates nuclear number and domain size in skeletal muscle fibers. <i>Journal of Cellular Physiology</i> , 2018, 233, 7157-7163.	4.1	26
44	Knockout of STAT3 in skeletal muscle does not prevent high-fat diet-induced insulin resistance. <i>Molecular Metabolism</i> , 2015, 4, 569-575.	6.5	25
45	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. <i>PLoS ONE</i> , 2017, 12, e0188544.	2.5	24
46	One-time injection of AAV8 encoding urocortin 2 provides long-term resolution of insulin resistance. <i>JCI Insight</i> , 2016, 1, e88322.	5.0	23
47	Muscle architectural changes after massive human rotator cuff tear. <i>Journal of Orthopaedic Research</i> , 2016, 34, 2089-2095.	2.3	21
48	p300 is not required for metabolic adaptation to endurance exercise training. <i>FASEB Journal</i> , 2016, 30, 1623-1633.	0.5	21
49	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
50	mTOR regulates peripheral nerve response to tensile strain. <i>Journal of Neurophysiology</i> , 2017, 117, 2075-2084.	1.8	21
51	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
52	Maternal Obesity and Western-Style Diet Impair Fetal and Juvenile Offspring Skeletal Muscle Insulin-Stimulated Glucose Transport in Nonhuman Primates. <i>Diabetes</i> , 2020, 69, 1389-1400.	0.6	21
53	Knock-Down of IL-1Ra in Obese Mice Decreases Liver Inflammation and Improves Insulin Sensitivity. <i>PLoS ONE</i> , 2014, 9, e107487.	2.5	20
54	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

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55	Skeletal muscle fiber-type specific succinate dehydrogenase activity in cerebral palsy. <i>Muscle and Nerve</i> , 2017, 55, 122-124.	2.2	19
56	p300 and cAMP response element-binding protein-binding protein in skeletal muscle homeostasis, contractile function, and survival. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 464-477.	7.3	18
57	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
58	Exercise and high-fat feeding remodel transcript-metabolite interactive networks in mouse skeletal muscle. <i>Scientific Reports</i> , 2017, 7, 13485.	3.3	16
59	Combined overexpression of SIRT1 and knockout of GCN5 in adult skeletal muscle does not affect glucose homeostasis or exercise performance in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020, 318, E145-E151.	3.5	16
60	Manipulation of dietary carbohydrate and muscle glycogen affects glucose uptake during exercise when fat oxidation is impaired by $\beta_2$ -adrenergic blockade. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004, 287, E1195-E1201.	3.5	15
61	Is Acetylation a Metabolic Rheostat that Regulates Skeletal Muscle Insulin Action?. <i>Molecules and Cells</i> , 2015, 38, 297-303.	2.6	15
62	Defining the contribution of skeletal muscle pyruvate dehydrogenase $\pm 1$ to exercise performance and insulin action. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E1034-E1045.	3.5	15
63	Role of the cytoskeleton in muscle transcriptional responses to altered use. <i>Physiological Genomics</i> , 2013, 45, 321-331.	2.3	11
64	Quantifying the Effects of Aging on Morphological and Cellular Properties of Human Female Pelvic Floor Muscles. <i>Annals of Biomedical Engineering</i> , 2021, 49, 1836-1847.	2.5	10
65	Skeletal muscle maximal mitochondrial activity in ambulatory children with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2021, 63, 1194-1203.	2.1	10
66	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
67	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
68	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
69	Heterogeneous muscle gene expression patterns in patients with massive rotator cuff tears. <i>PLoS ONE</i> , 2018, 13, e0190439.	2.5	8
70	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
71	Metabolic Syndrome Is Associated With Higher Risk of Wound Complications After Total Hip Arthroplasty. <i>Arthroplasty Today</i> , 2020, 6, 571-577.	1.6	6
72	Dried Plum Ingestion Increases the Osteoblastogenic Capacity of Human Serum. <i>Journal of Medicinal Food</i> , 2017, 20, 653-658.	1.5	5

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73	Skeletal muscle gene expression in older adults with type 2 diabetes mellitus undergoing calorie-restricted diet and recreational sports training - a randomized clinical trial. <i>Experimental Gerontology</i> , 2022, 164, 111831.	2.8	5
74	Skeletal muscle mitochondrial function and exercise capacity are not impaired in mice with knockout of STAT3. <i>Journal of Applied Physiology</i> , 2019, 127, 1117-1127.	2.5	4
75	Acute inhibition of protein deacetylases does not impact skeletal muscle insulin action. <i>American Journal of Physiology - Cell Physiology</i> , 2019, 317, C964-C968.	4.6	3
76	Surgical site peptidylarginine deaminase 4 (PAD4), a biomarker of NETosis, correlates with insulin resistance in total joint arthroplasty patients: A preliminary report. <i>PLoS ONE</i> , 2021, 16, e0245594.	2.5	3
77	Sirtuin 1 is not required for contraction-stimulated glucose uptake in mouse skeletal muscle. <i>Journal of Applied Physiology</i> , 2021, 130, 1893-1902.	2.5	3
78	p300 or CBP is required for insulin-stimulated glucose uptake in skeletal muscle and adipocytes. <i>JCI Insight</i> , 2022, 7, .	5.0	3
79	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
80	Interaction between Lipid Availability, Endurance Exercise and Insulin Sensitivity. <i>Medicine and Sport Science</i> , 2014, 60, 62-70.	1.4	2
81	Interrupting Sitting Time in Postmenopausal Women: Protocol for the Rise for Health Randomized Controlled Trial. <i>JMIR Research Protocols</i> , 2021, 10, e28684.	1.0	2
82	Paraspinal Muscle Health is Related to Fibrogenic, Adipogenic, and Myogenic Gene Expression in Patients with Lumbar Spine Pathology. <i>BMC Musculoskeletal Disorders</i> , 2022, 23, .	1.9	2
83	Analgesic Medication Use During Exercise-Based Rehabilitation in Individuals With Low Back Pain: A Call to Action. <i>Physical Therapy</i> , 2021, 101, .	2.4	1
84	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
85	Sex-based differences in contraction-stimulated glucose uptake by mouse skeletal muscle. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
86	Fat oxidation tracks with fatty acid availability at low but not high plasma fatty acid concentrations. <i>FASEB Journal</i> , 2008, 22, 1088.3.	0.5	0
87	Mechanisms Mediating Obesity-Induced Inflammation and Insulin Resistance. , 2011, , 199-214.		0
88	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
89	Letrozole Treatment of Pubertal Female Mice Results in Impaired Insulin Action in Skeletal Muscle. <i>FASEB Journal</i> , 2018, 32, lb382.	0.5	0
90	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. <i>Circulation</i> , 2021, 144, .	1.6	0