Tim J Schulz

List of Publications by Year
in descending order

67 papers	7,307 citations	126858 33 h-index	106281 65 g-index
70 all docs	70 docs citations	70 times ranked	10829 citing authors

#	Article	IF	Citations
1	Glucose Restriction Extends Caenorhabditis elegans Life Span by Inducing Mitochondrial Respiration and Increasing Oxidative Stress. Cell Metabolism, 2007, 6, 280-293.	7.2	1,051
2	New role of bone morphogenetic protein 7 in brown adipogenesis and energy expenditure. Nature, 2008, 454, 1000-1004.	13.7	964
3	Anatomical localization, gene expression profiling and functional characterization of adult human neck brown fat. Nature Medicine, 2013, 19, 635-639.	15.2	579
4	Adipocyte Accumulation in the Bone Marrow during Obesity and Aging Impairs Stem Cell-Based Hematopoietic and Bone Regeneration. Cell Stem Cell, 2017, 20, 771-784.e6.	5.2	566
5	Identification of inducible brown adipocyte progenitors residing in skeletal muscle and white fat. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 143-148.	3.3	425
6	Brown-fat paucity due to impaired BMP signalling induces compensatory browning of white fat. Nature, 2013, 495, 379-383.	13.7	338
7	Intrinsic Differences in Adipocyte Precursor Cells From Different White Fat Depots. Diabetes, 2012, 61, 1691-1699.	0.3	247
8	Clonal analyses and gene profiling identify genetic biomarkers of the thermogenic potential of human brown and white preadipocytes. Nature Medicine, 2015, 21, 760-768.	15.2	240
9	D-Glucosamine supplementation extends life span of nematodes and of ageing mice. Nature Communications, 2014, 5, 3563.	5.8	181
10	Induction of Oxidative Metabolism by Mitochondrial Frataxin Inhibits Cancer Growth. Journal of Biological Chemistry, 2006, 281, 977-981.	1.6	178
11	Short-chain fatty acids and inulin, but not guar gum, prevent diet-induced obesity and insulin resistance through differential mechanisms in mice. Scientific Reports, 2017, 7, 6109.	1.6	158
12	Brown adipose tissue: development, metabolism and beyond. Biochemical Journal, 2013, 453, 167-178.	1.7	153
13	Emerging role of bone morphogenetic proteins in adipogenesis and energy metabolism. Cytokine and Growth Factor Reviews, 2009, 20, 523-531.	3.2	137
14	12-Lipoxygenase Regulates Cold Adaptation and Glucose Metabolism by Producing the Omega-3 Lipid 12-HEPE from Brown Fat. Cell Metabolism, 2019, 30, 768-783.e7.	7.2	132
15	Targeted disruption of hepatic frataxin expression causes impaired mitochondrial function, decreased life span and tumor growth in mice. Human Molecular Genetics, 2005, 14, 3857-3864.	1.4	123
16	Micro <scp>RNA</scp> â€455 regulates brown adipogenesis via a novel <scp>HIF</scp> 1anâ€• <scp>AMPK</scp> â€•<scp>PGC</scp> 1Î± signaling network. EMBO Reports, 2015, 16, 1378-1393.	2.0	123
17	Frataxin deficiency in pancreatic islets causes diabetes due to loss of Î² cell mass. Journal of Clinical Investigation, 2003, 112, 527-534.	3.9	112
18	Sex matters: The effects of biological sex on adipose tissue biology and energy metabolism. Redox Biology, 2017, 12, 806-813.	3.9	100

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19	Bone morphogenetic protein 7 (BMP7) reverses obesity and regulates appetite through a central mTOR pathway. FASEB Journal, 2012, 26, 2187-2196.	0.2	93
20	Mechanisms of Aging-Related Impairment of Brown Adipocyte Development and Function. Gerontology, 2015, 61, 211-217.	1.4	79
21	Bone morphogenetic proteins in inflammation, glucose homeostasis and adipose tissue energy metabolism. Cytokine and Growth Factor Reviews, 2016, 27, 105-118.	3.2	70
22	p53 Functions in Adipose Tissue Metabolism and Homeostasis. International Journal of Molecular Sciences, 2018, 19, 2622.	1.8	68
23	FGF6 and FGF9 regulate UCP1 expression independent of brown adipogenesis. Nature Communications, 2020, 11, 1421.	5.8	67
24	Cold-Activated Lipid Dynamics in Adipose Tissue Highlights a Role for Cardiolipin in Thermogenic Metabolism. Cell Reports, 2018, 24, 781-790.	2.9	60
25	Cross Talk between Insulin and Bone Morphogenetic Protein Signaling Systems in Brown Adipogenesis. Molecular and Cellular Biology, 2010, 30, 4224-4233.	1.1	59
26	Muscle mitochondrial stress adaptation operates independently of endogenous FGF21 action. Molecular Metabolism, 2016, 5, 79-90.	3.0	58
27	Liver p53 is stabilized upon starvation and required for amino acid catabolism and gluconeogenesis. FASEB Journal, 2017, 31, 732-742.	0.2	55
28	Activation of mitochondrial energy metabolism protects against cardiac failure. Aging, 2010, 2, 843-853.	1.4	53
29	Impaired respiration is positively correlated with decreased life span in Caenorhabditis elegans models of Friedreich Ataxia. FASEB Journal, 2007, 21, 1271-1275.	0.2	51
30	p53 as a Dichotomous Regulator of Liver Disease: The Dose Makes the Medicine. International Journal of Molecular Sciences, 2018, 19, 921.	1.8	47
31	Induction of Steatohepatitis (NASH) with Insulin Resistance in Wild-type B6 Mice by a Western-type Diet Containing Soybean Oil and Cholesterol. Molecular Medicine, 2017, 23, 70-82.	1.9	46
32	Insulin/IGF-I Regulation of Necdin and Brown Adipocyte Differentiation Via CREB- and FoxO1-Associated Pathways. Endocrinology, 2011, 152, 3680-3689.	1.4	44
33	Identification of functional lipid metabolism biomarkers of brown adipose tissue aging. Molecular Metabolism, 2019, 24, 1-17.	3.0	38
34	Intramuscular adipogenesis is inhibited by myo-endothelial progenitors with functioning Bmpr1a signalling. Nature Communications, 2014, 5, 4063.	5.8	36
35	The Friedreich's ataxia protein frataxin modulates DNA base excision repair in prokaryotes and mammals. Biochemical Journal, 2010, 432, 165-172.	1.7	34
36	Standardised Nomenclature, Abbreviations, and Units for the Study of Bone Marrow Adiposity: Report of the Nomenclature Working Group of the International Bone Marrow Adiposity Society. Frontiers in Endocrinology, 2019, 10, 923.	1.5	34

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37	Alterations of Pancreatic Beta-cell Mass and Islet Number due to Ins2-controlled Expression of Cre Recombinase: RIP-Cre Revisited; Part 2. Hormone and Metabolic Research, 2007, 39, 336-340.	0.7	33
38	The emerging role of bone marrow adipose tissue in bone health and dysfunction. Journal of Molecular Medicine, 2017, 95, 1291-1301.	1.7	32
39	Partial involvement of Nrf2 in skeletal muscle mitohormesis as an adaptive response to mitochondrial uncoupling. Scientific Reports, 2018, 8, 2446.	1.6	31
40	Active integrins regulate white adipose tissue insulin sensitivity and brown fat thermogenesis. Molecular Metabolism, 2021, 45, 101147.	3.0	30
41	Loss of periostin occurs in aging adipose tissue of mice and its genetic ablation impairs adipose tissue lipid metabolism. Aging Cell, 2018, 17, e12810.	3.0	29
42	Variable Expression of Cre Recombinase Transgenes Precludes Reliable Prediction of Tissue-Specific Gene Disruption by Tail-Biopsy Genotyping. PLoS ONE, 2007, 2, e1013.	1.1	29
43	Aging of Brown and Beige/Brite Adipose Tissue. Handbook of Experimental Pharmacology, 2018, 251, 55-72.	0.9	28
44	Pancreatic adipocytes mediate hypersecretion of insulin in diabetes-susceptible mice. Metabolism: Clinical and Experimental, 2019, 97, 9-17.	1.5	26
45	Reduced expression of mitochondrial frataxin in mice exacerbates diet-induced obesity. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6377-6381.	3.3	24
46	Pharmacological and Genetic Manipulation of p53 in Brown Fat at Adult But Not Embryonic Stages Regulates Thermogenesis and Body Weight in Male Mice. Endocrinology, 2016, 157, 2735-2749.	1.4	23
47	Lysophosphatidic Acid Inhibits Insulin Signaling in Primary Rat Hepatocytes via the LPA3 Receptor Subtype and is Increased in Obesity. Cellular Physiology and Biochemistry, 2017, 43, 445-456.	1.1	22
48	Increased Ifi202b/IFI16 expression stimulates adipogenesis in mice and humans. Diabetologia, 2018, 61, 1167-1179.	2.9	21
49	Systemic control of brown fat thermogenesis: integration of peripheral and central signals. Annals of the New York Academy of Sciences, 2013, 1302, 35-41.	1.8	17
50	Disruption of Insulin Signaling in Myf5-Expressing Progenitors Leads to Marked Paucity of Brown Fat but Normal Muscle Development. Endocrinology, 2015, 156, 1637-1647.	1.4	16
51	Loss of BMP receptor type 1A in murine adipose tissue attenuates age-related onset of insulin resistance. Diabetologia, 2016, 59, 1769-1777.	2.9	16
52	Loss of the Hematopoietic Stem Cell Factor GATA2 in the Osteogenic Lineage Impairs Trabecularization and Mechanical Strength of Bone. Molecular and Cellular Biology, 2018, 38, .	1.1	14
53	A Cell-based High-throughput Assay System Reveals Modulation of Oxidative and Nonoxidative Glucose Metabolism due to Commonly Used Organic Solvents. Hormone and Metabolic Research, 2008, 40, 29-37.	0.7	13
54	Improved glucose metabolism in mice lacking Î±-tocopherol transfer protein. European Journal of Nutrition, 2007, 46, 397-405.	1.8	12

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55	Flow Cytometric Isolation and Differentiation of Adipogenic Progenitor Cells into Brown and Brite/Beige Adipocytes. Methods in Molecular Biology, 2017, 1566, 25-36.	0.4	12
56	Identification of biomarkers of brown adipose tissue aging highlights the role of dysfunctional energy and nucleotide metabolism pathways. Scientific Reports, 2021, 11, 19928.	1.6	10
57	Chemical Inhibition of Citrate Metabolism Alters Glucose Metabolism in Mice. Hormone and Metabolic Research, 2006, 38, 543-545.	0.7	7
58	Opposing effects of dietary sugar and saturated fat on cardiovascular risk factors and glucose metabolism in mitochondrially impaired mice. European Journal of Nutrition, 2010, 49, 417-427.	1.8	7
59	Adipogenic Fate Commitment of Muscle-Derived Progenitor Cells: Isolation, Culture, and Differentiation. Methods in Molecular Biology, 2014, 1213, 229-243.	0.4	6
60	Chemical Inhibition of Citrate Metabolism Alters Body Fat Content in Mice. Hormone and Metabolic Research, 2006, 38, 134-136.	0.7	4
61	Complementary omics strategies to dissect p53 signaling networks under nutrient stress. Cellular and Molecular Life Sciences, 2022, 79, .	2.4	4
62	Loss of the ciliary gene Bbs4 results in defective thermogenesis due to metabolic inefficiency and impaired lipid metabolism. FASEB Journal, 2021, 35, e21966.	0.2	3
63	Wt1 haploinsufficiency induces browning of epididymal fat and alleviates metabolic dysfunction in mice on high-fat diet. Diabetologia, 2022, 65, 528-540.	2.9	3
64	p53 Regulates a miRNA-Fructose Transporter Axis in Brown Adipose Tissue Under Fasting. Frontiers in Genetics, 0, 13, .	1.1	2
65	Warburg and his Legacy. , 2009, , 23-38.		1
66	Immune Regulation of Adipose Tissue Browning. , 2022, , 221-234.		0
67	Distinct Adipogenic and Fibrogenic Differentiation Capacities of Mesenchymal Stromal Cells from Pancreas and White Adipose Tissue. International Journal of Molecular Sciences, 2022, 23, 2108.	1.8	0