

Timothy R Koves

List of Publications by Year in descending order

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64
papers

7,544
citations

71061

41
h-index

123376

61
g-index

65
all docs

65
docs citations

65
times ranked

11177
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial Overload and Incomplete Fatty Acid Oxidation Contribute to Skeletal Muscle Insulin Resistance. <i>Cell Metabolism</i> , 2008, 7, 45-56.	7.2	1,618
2	Peroxisome Proliferator-activated Receptor- β Co-activator 1 α -mediated Metabolic Remodeling of Skeletal Myocytes Mimics Exercise Training and Reverses Lipid-induced Mitochondrial Inefficiency. <i>Journal of Biological Chemistry</i> , 2005, 280, 33588-33598.	1.6	416
3	Hepatic expression of malonyl-CoA decarboxylase reverses muscle, liver and whole-animal insulin resistance. <i>Nature Medicine</i> , 2004, 10, 268-274.	15.2	414
4	SIRT4 Coordinates the Balance between Lipid Synthesis and Catabolism by Repressing Malonyl CoA Decarboxylase. <i>Molecular Cell</i> , 2013, 50, 686-698.	4.5	315
5	Muscle-Specific Deletion of Carnitine Acetyltransferase Compromises Glucose Tolerance and Metabolic Flexibility. <i>Cell Metabolism</i> , 2012, 15, 764-777.	7.2	307
6	Inhibition of De Novo Ceramide Synthesis Reverses Diet-Induced Insulin Resistance and Enhances Whole-Body Oxygen Consumption. <i>Diabetes</i> , 2010, 59, 2453-2464.	0.3	296
7	Adipose Acyl-CoA Synthetase-1 Directs Fatty Acids toward β -Oxidation and Is Required for Cold Thermogenesis. <i>Cell Metabolism</i> , 2010, 12, 53-64.	7.2	277
8	Carnitine Insufficiency Caused by Aging and Overnutrition Compromises Mitochondrial Performance and Metabolic Control. <i>Journal of Biological Chemistry</i> , 2009, 284, 22840-22852.	1.6	271
9	Differences in extracellular dopamine concentrations in the nucleus accumbens during response-dependent and response-independent cocaine administration in the rat. <i>Psychopharmacology</i> , 1997, 133, 7-16.	1.5	264
10	Energy Metabolic Reprogramming in the Hypertrophied and Early Stage Failing Heart. <i>Circulation: Heart Failure</i> , 2014, 7, 1022-1031.	1.6	233
11	Liver-specific Loss of Long Chain Acyl-CoA Synthetase-1 Decreases Triacylglycerol Synthesis and β -Oxidation and Alters Phospholipid Fatty Acid Composition. <i>Journal of Biological Chemistry</i> , 2009, 284, 27816-27826.	1.6	188
12	Mouse Cardiac Acyl Coenzyme A Synthetase 1 Deficiency Impairs Fatty Acid Oxidation and Induces Cardiac Hypertrophy. <i>Molecular and Cellular Biology</i> , 2011, 31, 1252-1262.	1.1	156
13	Subsarcolemmal and intermyofibrillar mitochondria play distinct roles in regulating skeletal muscle fatty acid metabolism. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 288, C1074-C1082.	2.1	135
14	Metabolite signatures of exercise training in human skeletal muscle relate to mitochondrial remodelling and cardiometabolic fitness. <i>Diabetologia</i> , 2014, 57, 2282-2295.	2.9	121
15	Electrical stimulation increases hypertrophy and metabolic flux in tissue-engineered human skeletal muscle. <i>Biomaterials</i> , 2019, 198, 259-269.	5.7	121
16	Measurement of Fatty Acid Oxidation Rates in Animal Tissues and Cell Lines. <i>Methods in Enzymology</i> , 2014, 542, 391-405.	0.4	120
17	Insulin-Stimulated Cardiac Glucose Oxidation Is Increased in High-Fat Diet-Induced Obese Mice Lacking Malonyl CoA Decarboxylase. <i>Diabetes</i> , 2009, 58, 1766-1775.	0.3	116
18	A Lipidomics Analysis of the Relationship Between Dietary Fatty Acid Composition and Insulin Sensitivity in Young Adults. <i>Diabetes</i> , 2013, 62, 1054-1063.	0.3	107

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19	Skeletal muscle adaptation to fatty acid depends on coordinated actions of the PPARs and PGC1 β : implications for metabolic disease. <i>Applied Physiology, Nutrition and Metabolism</i> , 2007, 32, 874-883.	0.9	103
20	Metabolic profiling of PPAR α mice reveals defects in carnitine and amino acid homeostasis that are partially reversed by oral carnitine supplementation. <i>FASEB Journal</i> , 2009, 23, 586-604.	0.2	101
21	Chronic Cocaine Administration Increases CNS Tyrosine Hydroxylase Enzyme Activity and mRNA Levels and Tryptophan Hydroxylase Enzyme Activity Levels. <i>Journal of Neurochemistry</i> , 1993, 61, 2262-2268.	2.1	99
22	Compartmentalized Acyl-CoA Metabolism in Skeletal Muscle Regulates Systemic Glucose Homeostasis. <i>Diabetes</i> , 2015, 64, 23-35.	0.3	97
23	PPAR β coactivator-1 α contributes to exercise-induced regulation of intramuscular lipid droplet programming in mice and humans. <i>Journal of Lipid Research</i> , 2013, 54, 522-534.	2.0	89
24	Mitochondrial Diagnostics: A Multiplexed Assay Platform for Comprehensive Assessment of Mitochondrial Energy Fluxes. <i>Cell Reports</i> , 2018, 24, 3593-3606.e10.	2.9	87
25	Obesity and lipid stress inhibit carnitine acetyltransferase activity. <i>Journal of Lipid Research</i> , 2014, 55, 635-644.	2.0	80
26	Carnitine Acetyltransferase Mitigates Metabolic Inertia and Muscle Fatigue during Exercise. <i>Cell Metabolism</i> , 2015, 22, 65-76.	7.2	78
27	Contraction of insulin-resistant muscle normalizes insulin action in association with increased mitochondrial activity and fatty acid catabolism. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C729-C739.	2.1	77
28	Dietary intake of palmitate and oleate has broad impact on systemic and tissue lipid profiles in humans. <i>American Journal of Clinical Nutrition</i> , 2014, 99, 436-445.	2.2	77
29	Systematic Dissection of the Metabolic-Apoptotic Interface in AML Reveals Heme Biosynthesis to Be a Regulator of Drug Sensitivity. <i>Cell Metabolism</i> , 2019, 29, 1217-1231.e7.	7.2	75
30	Nutritional modulation of heart failure in mitochondrial pyruvate carrier-deficient mice. <i>Nature Metabolism</i> , 2020, 2, 1232-1247.	5.1	74
31	Evidence of a malonyl-CoA-insensitive carnitine palmitoyltransferase I activity in red skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002, 282, E1014-E1022.	1.8	65
32	Receptor-Selective Coactivators as Tools to Define the Biology of Specific Receptor-Coactivator Pairs. <i>Molecular Cell</i> , 2006, 24, 797-803.	4.5	65
33	Molecular alterations in skeletal muscle in rheumatoid arthritis are related to disease activity, physical inactivity, and disability. <i>Arthritis Research and Therapy</i> , 2017, 19, 12.	1.6	63
34	Metabolic Catastrophe in Mice Lacking Transferrin Receptor in Muscle. <i>EBioMedicine</i> , 2015, 2, 1705-1717.	2.7	62
35	Substituting dietary monounsaturated fat for saturated fat is associated with increased daily physical activity and resting energy expenditure and with changes in mood. <i>American Journal of Clinical Nutrition</i> , 2013, 97, 689-697.	2.2	61
36	Alterations in Skeletal Muscle Fatty Acid Handling Predisposes Middle-Aged Mice to Diet-Induced Insulin Resistance. <i>Diabetes</i> , 2010, 59, 1366-1375.	0.3	60

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37	Peroxisome Proliferator-Activated Receptor- β Coactivator-1 Overexpression Increases Lipid Oxidation in Myocytes From Extremely Obese Individuals. <i>Diabetes</i> , 2010, 59, 1407-1415.	0.3	55
38	Targeted Metabolomics Connects Thioredoxin-interacting Protein (TXNIP) to Mitochondrial Fuel Selection and Regulation of Specific Oxidoreductase Enzymes in Skeletal Muscle. <i>Journal of Biological Chemistry</i> , 2014, 289, 8106-8120.	1.6	55
39	Extreme Acetylation of the Cardiac Mitochondrial Proteome Does Not Promote Heart Failure. <i>Circulation Research</i> , 2020, 127, 1094-1108.	2.0	54
40	Metabolomic analysis reveals altered skeletal muscle amino acid and fatty acid handling in obese humans. <i>Obesity</i> , 2015, 23, 981-988.	1.5	53
41	Muscle-Liver Trafficking of BCAA-Derived Nitrogen Underlies Obesity-Related Glycine Depletion. <i>Cell Reports</i> , 2020, 33, 108375.	2.9	49
42	Disruption of Acetyl-Lysine Turnover in Muscle Mitochondria Promotes Insulin Resistance and Redox Stress without Overt Respiratory Dysfunction. <i>Cell Metabolism</i> , 2020, 31, 131-147.e11.	7.2	41
43	Respiratory Phenomics across Multiple Models of Protein Hyperacetylation in Cardiac Mitochondria Reveals a Marginal Impact on Bioenergetics. <i>Cell Reports</i> , 2019, 26, 1557-1572.e8.	2.9	39
44	Identification of a novel malonyl-CoA IC50 for CPT-I: implications for predicting <i>in vivo</i> fatty acid oxidation rates. <i>Biochemical Journal</i> , 2012, 448, 13-20.	1.7	36
45	Re-patterning of Skeletal Muscle Energy Metabolism by Fat Storage-inducing Transmembrane Protein 2. <i>Journal of Biological Chemistry</i> , 2011, 286, 42188-42199.	1.6	28
46	Ectopic lipid deposition and the metabolic profile of skeletal muscle in ovariectomized mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 304, R206-R217.	0.9	27
47	Increased Insulin Sensitivity in Mice Lacking Collectrin, a Downstream Target of HNF-1. <i>Molecular Endocrinology</i> , 2009, 23, 881-892.	3.7	24
48	Rejuvenation of Neutrophil Functions in Association With Reduced Diabetes Risk Following Ten Weeks of Low-Volume High Intensity Interval Walking in Older Adults With Prediabetes – A Pilot Study. <i>Frontiers in Immunology</i> , 2020, 11, 729.	2.2	23
49	Metabolic Alterations Contribute to Enhanced Inflammatory Cytokine Production in <i>Irgm1</i> -deficient Macrophages. <i>Journal of Biological Chemistry</i> , 2017, 292, 4651-4662.	1.6	22
50	Metabolic profiling of muscle contraction in lean compared with obese rodents. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 299, R926-R934.	0.9	18
51	Human, Tissue-Engineered, Skeletal Muscle Myobundles to Measure Oxygen Uptake and Assess Mitochondrial Toxicity. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 189-199.	1.1	18
52	Treatment with the 3-Ketoacyl-CoA Thiolase Inhibitor Trimetazidine Does Not Exacerbate Whole-Body Insulin Resistance in Obese Mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 349, 487-496.	1.3	17
53	Plasma acylcarnitines during insulin stimulation in humans are reflective of age-related metabolic dysfunction. <i>Biochemical and Biophysical Research Communications</i> , 2016, 479, 868-874.	1.0	16
54	A Mitochondrial Progesterone Receptor Increases Cardiac Beta-Oxidation and Remodeling. <i>Journal of the Endocrine Society</i> , 2019, 3, 446-467.	0.1	15

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55	Plasma MicroRNAs in Established Rheumatoid Arthritis Relate to Adiposity and Altered Plasma and Skeletal Muscle Cytokine and Metabolic Profiles. <i>Frontiers in Immunology</i> , 2019, 10, 1475.	2.2	13
56	Myocardial Lipin 1 knockout in mice approximates cardiac effects of human LPIN1 mutations. <i>JCI Insight</i> , 2021, 6, .	2.3	12
57	Nicotinamide riboside supplementation confers marginal metabolic benefits in obese mice without remodeling the muscle acetyl-proteome. <i>IScience</i> , 2022, 25, 103635.	1.9	11
58	Rheumatoid arthritis T cell and muscle oxidative metabolism associate with exercise-induced changes in cardiorespiratory fitness. <i>Scientific Reports</i> , 2022, 12, 7450.	1.6	9
59	Time-dependent recovery from the effects of 6-hydroxydopamine lesions of the rat nucleus accumbens on cocaine self-administration and the levels of dopamine in microdialysates. <i>Psychopharmacology</i> , 2004, 171, 413-420.	1.5	8
60	Disruption of STIM1-mediated Ca ²⁺ sensing and energy metabolism in adult skeletal muscle compromises exercise tolerance, proteostasis, and lean mass. <i>Molecular Metabolism</i> , 2022, 57, 101429.	3.0	6
61	Increased palmitate intake: higher acylcarnitine concentrations without impaired progression of β^2 -oxidation. <i>Journal of Lipid Research</i> , 2015, 56, 1795-1807.	2.0	4
62	Metabolic Mechanisms of Muscle Insulin Resistance. , 2008, , 35-47.		1
63	Substituting dietary monounsaturated fat for saturated fat is associated with increased daily physical activity and resting energy expenditure and with changes in mood. <i>FASEB Journal</i> , 2013, 27, 1068.1.	0.2	0
64	Abstract P284: The Chemotherapeutic Agent Docetaxel Disrupts Mitochondrial Energetics in 3D Human Bioengineered Myobundles. <i>Circulation</i> , 2019, 139, .	1.6	0