Michael J Jurczak

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5427819/publications.pdf

Version: 2024-02-01

107 papers	12,343 citations	44042 48 h-index	28275 105 g-index
110 all docs	110 docs citations	110 times ranked	21657 citing authors

#	Article	IF	Citations
1	Inflammasome-mediated dysbiosis regulates progression of NAFLD and obesity. Nature, 2012, 482, 179-185.	13.7	2,026
2	Metformin suppresses gluconeogenesis by inhibiting mitochondrial glycerophosphate dehydrogenase. Nature, 2014, 510, 542-546.	13.7	989
3	Ablation of PRDM16 and Beige Adipose Causes Metabolic Dysfunction and a Subcutaneous to Visceral Fat Switch. Cell, 2014, 156, 304-316.	13.5	719
4	Hepatic Acetyl CoA Links Adipose Tissue Inflammation to Hepatic Insulin Resistance and Type 2 Diabetes. Cell, 2015, 160, 745-758.	13.5	547
5	Antidiabetic actions of a non-agonist PPARÎ³ ligand blocking Cdk5-mediated phosphorylation. Nature, 2011, 477, 477-481.	13.7	484
6	PKM2 Isoform-Specific Deletion Reveals a Differential Requirement for Pyruvate Kinase in Tumor Cells. Cell, 2013, 155, 397-409.	13.5	429
7	Targeted Expression of Catalase to Mitochondria Prevents Age-Associated Reductions in Mitochondrial Function and Insulin Resistance. Cell Metabolism, 2010, 12, 668-674.	7.2	274
8	Oxidative stress and dysregulation of NAD(P)H oxidase and antioxidant enzymes in diet-induced metabolic syndrome. Metabolism: Clinical and Experimental, 2006, 55, 928-934.	1.5	268
9	An ERK/Cdk5 axis controls the diabetogenic actions of PPARÎ³. Nature, 2015, 517, 391-395.	13.7	251
10	Development of insulin resistance in mice lacking PGC-1Î± in adipose tissues. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9635-9640.	3.3	248
11	The Deacetylase Sirt6 Activates the Acetyltransferase GCN5 and Suppresses Hepatic Gluconeogenesis. Molecular Cell, 2012, 48, 900-913.	4.5	246
12	The H19/let-7 double-negative feedback loop contributes to glucose metabolism in muscle cells. Nucleic Acids Research, 2014, 42, 13799-13811.	6.5	218
13	Cyclin D1â€“Cdk4 controls glucose metabolism independently of cell cycle progression. Nature, 2014, 510, 547-551.	13.7	198
14	SGLT2 Deletion Improves Glucose Homeostasis and Preserves Pancreatic Î²-Cell Function. Diabetes, 2011, 60, 890-898.	0.3	197
15	Deletion of the Mammalian INDY Homolog Mimics Aspects of Dietary Restriction and Protects against Adiposity and Insulin Resistance in Mice. Cell Metabolism, 2011, 14, 184-195.	7.2	193
16	Reversal of Hypertriglyceridemia, Fatty Liver Disease, and Insulin Resistance by a Liver-Targeted Mitochondrial Uncoupler. Cell Metabolism, 2013, 18, 740-748.	7.2	190
17	Cellular Mechanisms by Which FGF21 Improves Insulin Sensitivity in Male Mice. Endocrinology, 2013, 154, 3099-3109.	1.4	184
18	The Role of Peroxisome Proliferator-Activated Receptor Î³ Coactivator-1 Î² in the Pathogenesis of Fructose-Induced Insulin Resistance. Cell Metabolism, 2009, 9, 252-264.	7.2	179

#	Article	IF	Citations
19	Insulin-independent regulation of hepatic triglyceride synthesis by fatty acids. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1143-1148.	3.3	176
20	A high-fat, ketogenic diet causes hepatic insulin resistance in mice, despite increasing energy expenditure and preventing weight gain. American Journal of Physiology - Endocrinology and Metabolism, 2010, 299, E808-E815.	1.8	174
21	Insulin receptor Thr1160 phosphorylation mediates lipid-induced hepatic insulin resistance. Journal of Clinical Investigation, 2016, 126, 4361-4371.	3.9	173
22	Germinal center B cells selectively oxidize fatty acids for energy while conducting minimal glycolysis. Nature Immunology, 2020, 21, 331-342.	7.0	172
23	A Metabolic Basis for Endothelial-to-Mesenchymal Transition. Molecular Cell, 2018, 69, 689-698.e7.	4.5	164
24	Cellular Mechanism by Which Estradiol Protects Female Ovariectomized Mice From High-Fat Diet-Induced Hepatic and Muscle Insulin Resistance. Endocrinology, 2013, 154, 1021-1028.	1.4	154
25	Hepatic insulin resistance in mice with hepatic overexpression of diacylglycerol acyltransferase 2. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5748-5752.	3.3	139
26	Glycogen branches out: new perspectives on the role of glycogen metabolism in the integration of metabolic pathways. American Journal of Physiology - Endocrinology and Metabolism, 2006, 291, E1-E8.	1.8	137
27	CGI-58 knockdown sequesters diacylglycerols in lipid droplets/ER-preventing diacylglycerol-mediated hepatic insulin resistance. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1869-1874.	3.3	137
28	Dissociation of Inositol-requiring Enzyme (IRE1Î±)-mediated c-Jun N-terminal Kinase Activation from Hepatic Insulin Resistance in Conditional X-box-binding Protein-1 (XBP1) Knock-out Mice. Journal of Biological Chemistry, 2012, 287, 2558-2567.	1.6	132
29	Anti-myostatin antibody increases muscle mass and strength and improves insulin sensitivity in old mice. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2212-2217.	3.3	129
30	Defective HNF4alpha-dependent gene expression as a driver of hepatocellular failure in alcoholic hepatitis. Nature Communications, 2019, 10, 3126.	5.8	124
31	A high-fat, refined-carbohydrate diet induces endothelial dysfunction and oxidant/antioxidant imbalance and depresses NOS protein expression. Journal of Applied Physiology, 2005, 98, 203-210.	1.2	122
32	Apolipoprotein CIII overexpressing mice are predisposed to dietâ€induced hepatic steatosis and hepatic insulin resistance. Hepatology, 2011, 54, 1650-1660.	3.6	114
33	Targeting Pyruvate Carboxylase Reduces Gluconeogenesis and Adiposity and Improves Insulin Resistance. Diabetes, 2013, 62, 2183-2194.	0.3	107
34	Endothelial Uncoupling Protein 2 Regulates Mitophagy and Pulmonary Hypertension During Intermittent Hypoxia. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1166-1178.	1.1	99
35	17Î±-Estradiol Alleviates Age-related Metabolic and Inflammatory Dysfunction in Male Mice Without Inducing Feminization. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, 3-15.	1.7	91
36	Saturated and unsaturated fat induce hepatic insulin resistance independently of TLR-4 signaling and ceramide synthesis in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12780-12785.	3.3	85

#	Article	IF	Citations
37	Hypophosphatemia promotes lower rates of muscle ATP synthesis. FASEB Journal, 2016, 30, 3378-3387.	0.2	70
38	Hepatic Mitogen-Activated Protein Kinase Phosphatase 1 Selectively Regulates Glucose Metabolism and Energy Homeostasis. Molecular and Cellular Biology, 2015, 35, 26-40.	1.1	69
39	Thyroid Hormone Receptor-Î± Gene Knockout Mice Are Protected from Diet-Induced Hepatic Insulin Resistance. Endocrinology, 2012, 153, 583-591.	1.4	66
40	MARCH1 regulates insulin sensitivity by controlling cell surface insulin receptor levels. Nature Communications, 2016, 7, 12639.	5.8	66
41	Adropin regulates pyruvate dehydrogenase in cardiac cells via a novel GPCR-MAPK-PDK4 signaling pathway. Redox Biology, 2018, 18, 25-32.	3.9	66
42	Influence of the Hepatic Eukaryotic Initiation Factor 2Î± (eIF2Î±) Endoplasmic Reticulum (ER) Stress Response Pathway on Insulin-mediated ER Stress and Hepatic and Peripheral Glucose Metabolism. Journal of Biological Chemistry, 2011, 286, 36163-36170.	1.6	65
43	Role of caspase-1 in regulation of triglyceride metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4810-4815.	3.3	64
44	Skeletal Muscleâ€“Specific Deletion of MKP-1 Reveals a p38 MAPK/JNK/Akt Signaling Node That Regulates Obesity-Induced Insulin Resistance. Diabetes, 2018, 67, 624-635.	0.3	63
45	The protein acetylase GCN5L1 modulates hepatic fatty acid oxidation activity via acetylation of the mitochondrial Î²-oxidation enzyme HADHA. Journal of Biological Chemistry, 2018, 293, 17676-17684.	1.6	62
46	Dissociation of the Glucose and Lipid Regulatory Functions of FoxO1 by Targeted Knockin of Acetylation-Defective Alleles in Mice. Cell Metabolism, 2011, 14, 587-597.	7.2	60
47	Hepatic inositol 1,4,5 trisphosphate receptor type 1 mediates fatty liver. Hepatology Communications, 2017, 1, 23-35.	2.0	56
48	Tregs facilitate obesity and insulin resistance via a Blimp-1/IL-10 axis. JCI Insight, 2021, 6, .	2.3	54
49	A big-data approach to understanding metabolic rate and response to obesity in laboratory mice. ELife, 2020, 9, .	2.8	54
50	The Role of NADPH Oxidases in the Etiology of Obesity and Metabolic Syndrome: Contribution of Individual Isoforms and Cell Biology. Antioxidants and Redox Signaling, 2019, 31, 687-709.	2.5	52
51	Genetic activation of pyruvate dehydrogenase alters oxidative substrate selection to induce skeletal muscle insulin resistance. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16508-16513.	3.3	50
52	Macrophage-specific de Novo Synthesis of Ceramide Is Dispensable for Inflammasome-driven Inflammation and Insulin Resistance in Obesity. Journal of Biological Chemistry, 2015, 290, 29402-29413.	1.6	50
53	Antiâ€inflammatory effects of oestrogen mediate the sexual dimorphic response to lipidâ€induced insulin resistance. Journal of Physiology, 2019, 597, 3885-3903.	1.3	48
54	Tumor Progression Locus 2 (TPL2) Regulates Obesity-Associated Inflammation and Insulin Resistance. Diabetes, 2011, 60, 1168-1176.	0.3	47

#	Article	IF	Citations
55	Acetylation of TUG Protein Promotes the Accumulation of GLUT4 Glucose Transporters in an Insulin-responsive Intracellular Compartment. Journal of Biological Chemistry, 2015, 290, 4447-4463.	1.6	46
56	ApoA5 knockdown improves whole-body insulin sensitivity in high-fat-fed mice by reducing ectopic lipid content. Journal of Lipid Research, 2015, 56, 526-536.	2.0	45
57	Mitochondrial-Targeted Catalase Protects Against High-Fat Dietâ€"Induced Muscle Insulin Resistance by Decreasing Intramuscular Lipid Accumulation. Diabetes, 2017, 66, 2072-2081.	0.3	45
58	CD301b + Mononuclear Phagocytes Maintain Positive Energy Balance through Secretion of Resistin-like Molecule Alpha. Immunity, 2016, 45, 583-596.	6.6	44
59	Hepatic insulin resistance and increased hepatic glucose production in mice lacking Fgf21. Journal of Endocrinology, 2015, 226, 207-217.	1.2	41
60	Adropin treatment restores cardiac glucose oxidation in pre-diabetic obese mice. Journal of Molecular and Cellular Cardiology, 2019, 129, 174-178.	0.9	41
61	Transgenic overexpression of protein targeting to glycogen markedly increases adipocytic glycogen storage in mice. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E952-E963.	1.8	36
62	A controlledâ€rrelease mitochondrial protonophore reverses hypertriglyceridemia, nonalcoholic steatohepatitis, and diabetes in lipodystrophic mice. FASEB Journal, 2017, 31, 2916-2924.	0.2	35
63	Adropin reduces blood glucose levels in mice by limiting hepatic glucose production. Physiological Reports, 2019, 7, e14043.	0.7	34
64	Shear stress and oxygen availability drive differential changes in opossum kidney proximal tubule cell metabolism and endocytosis. Traffic, 2019, 20, 448-459.	1.3	34
65	Prevention of diet-induced hepatic steatosis and hepatic insulin resistance by second generation antisense oligonucleotides targeted to the longevity gene mIndy (Slc13a5). Aging, 2015, 7, 1086-1093.	1.4	34
66	Retinol saturase modulates lipid metabolism and the production of reactive oxygen species. Archives of Biochemistry and Biophysics, 2017, 633, 93-102.	1.4	31
67	Adipocyte JAK2 mediates growth hormoneâ€"induced hepatic insulin resistance. JCI Insight, 2017, 2, e91001.	2.3	31
68	Stranger in a strange land: Roles of glycogen turnover in adipose tissue metabolism. Molecular and Cellular Endocrinology, 2010, 318, 54-60.	1.6	28
69	The Transcriptional Regulator Id2 Is Critical for Adipose-Resident Regulatory T Cell Differentiation, Survival, and Function. Journal of Immunology, 2019, 203, 658-664.	0.4	27
70	Liver-specific Prkn knockout mice are more susceptible to diet-induced hepatic steatosis and insulin resistance. Molecular Metabolism, 2020, 41, 101051.	3.0	27
71	CrossTalk opposing view: Intramyocellular ceramide accumulation does not modulate insulin resistance. Journal of Physiology, 2016, 594, 3171-3174.	1.3	26
72	Hepatocyte-Specific Ablation or Whole-Body Inhibition of Xanthine Oxidoreductase in Mice Corrects Obesity-Induced Systemic Hyperuricemia Without Improving Metabolic Abnormalities. Diabetes, 2019, 68, 1221-1229.	0.3	25

#	Article	IF	Citations
73	Secondâ€generation antisense oligonucleotides against Î²â€catenin protect mice against dietâ€induced hepatic steatosis and hepatic and peripheral insulin resistance. FASEB Journal, 2016, 30, 1207-1217.	0.2	20
74	Sustained mitochondrial biogenesis is essential to maintain caloric restriction-induced beige adipocytes. Metabolism: Clinical and Experimental, 2020, 107, 154225.	1.5	20
75	Adipocyte JAK2 Regulates Hepatic Insulin Sensitivity Independently of Body Composition, Liver Lipid Content, and Hepatic Insulin Signaling. Diabetes, 2018, 67, 208-221.	0.3	19
76	Therapeutic Effects of Endogenous Incretin Hormones and Exogenous Incretin-Based Medications in Sepsis. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 5274-5284.	1.8	19
77	Inositol 1,4,5-trisphosphate receptor type II (InsP₃R-II) is reduced in obese mice, but metabolic homeostasis is preserved in mice lacking InsP₃R-II. American Journal of Physiology - Endocrinology and Metabolism, 2014, 307, E1057-E1064.	1.8	18
78	Insulin Regulates Glycogen Synthesis in Human Endometrial Glands Through Increased GYS2. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 2843-2850.	1.8	16
79	A Fbxo48 inhibitor prevents pAMPKÎ± degradation and ameliorates insulin resistance. Nature Chemical Biology, 2021, 17, 298-306.	3.9	16
80	The RNFT2/IL-3RÎ± axis regulates IL-3 signaling and innate immunity. JCI Insight, 2020, 5, .	2.3	16
81	The role of protein translocation in the regulation of glycogen metabolism. Journal of Cellular Biochemistry, 2008, 104, 435-443.	1.2	15
82	Endogenous Glucose Production in Critical Illness. Nutrition in Clinical Practice, 2021, 36, 344-359.	1.1	15
83	Cardiac myocyte KLF5 regulates body weight via alteration of cardiac FGF21. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 2125-2137.	1.8	13
84	Lactate oxidative phosphorylation by annulus fibrosus cells: evidence for lactate-dependent metabolic symbiosis in intervertebral discs. Arthritis Research and Therapy, 2021, 23, 145.	1.6	13
85	KIAA0317 regulates pulmonary inflammation through SOCS2 degradation. JCI Insight, 2019, 4, .	2.3	13
86	Muscle-specific activation of Ca2+/calmodulin-dependent protein kinase IV increases whole-body insulin action in mice. Diabetologia, 2014, 57, 1232-1241.	2.9	12
87	Reduced intestinal lipid absorption and body weight-independent improvements in insulin sensitivity in high-fat diet-fed Park2 knockout mice. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E105-E116.	1.8	12
88	SGLT2 knockout prevents hyperglycemia and is associated with reduced pancreatic Î²-cell death in genetically obese mice. Islets, 2018, 10, 181-189.	0.9	12
89	Adipose glucocorticoid action influences wholeâ€body metabolismviamodulation of hepatic insulin action. FASEB Journal, 2019, 33, 8174-8185.	0.2	12
90	Kelch-like protein 42 is a profibrotic ubiquitin E3 ligase involved in systemic sclerosis. Journal of Biological Chemistry, 2020, 295, 4171-4180.	1.6	12

#	Article	IF	Citations
91	Slc20a1/Pit1 and Slc20a2/Pit2 are essential for normal skeletal myofiber function and survival. Scientific Reports, 2020, 10, 3069.	1.6	12
92	Urolithin A Protects Chondrocytes From Mechanical Overloading-Induced Injuries. Frontiers in Pharmacology, 2021, 12, 703847.	1.6	12
93	Myocardial brain-derived neurotrophic factor regulates cardiac bioenergetics through the transcription factor Yin Yang 1. Cardiovascular Research, 2023, 119, 571-586.	1.8	12
94	Enhanced glycogen metabolism in adipose tissue decreases triglyceride mobilization. American Journal of Physiology - Endocrinology and Metabolism, 2010, 299, E117-E125.	1.8	10
95	PKCÎ» Haploinsufficiency Prevents Diabetes by a Mechanism Involving Alterations in Hepatic Enzymes. Molecular Endocrinology, 2014, 28, 1097-1107.	3.7	10
96	Nocturnal Hypoxia Improves Glucose Disposal, Decreases Mitochondrial Efficiency, and Increases Reactive Oxygen Species in the Muscle and Liver of C57BL/6J Mice Independent of Weight Change. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-12.	1.9	10
97	Hepatic insulin sensitivity is improved in highâ€fat dietâ€fed Park2 knockout mice in association with increased hepatic AMPK activation and reduced steatosis. Physiological Reports, 2019, 7, e14281.	0.7	9
98	Empagliflozin restores cardiac metabolic flexibility in diet-induced obese C57BL6/J mice. Current Research in Physiology, 2022, 5, 232-239.	0.8	8
99	Petite Integration Factor 1 (PIF1) helicase deficiency increases weight gain in Western diet-fed female mice without increased inflammatory markers or decreased glucose clearance. PLoS ONE, 2019, 14, e0203101.	1.1	7
100	Intestinal HIF-2Î± Regulates GLP-1 Secretion via Lipid Sensing in L-Cells. Cellular and Molecular Gastroenterology and Hepatology, 2022, 13, 1057-1072.	2.3	7
101	Reply to Constantin-Teodosiu et al.: Mice with genetic PDH activation are not protected from high-fat dietâ€“induced muscle insulin resistance. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E825-E825.	3.3	3
102	Diet-induced obese mice are resistant to improvements in cardiac function resulting from short-term adropin treatment. Current Research in Physiology, 2022, 5, 55-62.	0.8	3
103	Generation of a Dominantâ€Negative Glycogen Targeting Subunit for Protein Phosphataseâ€1. Obesity, 2010, 18, 1881-1887.	1.5	2
104	Gestational diabetes sensitizes mice to future metabolic syndrome that can be relieved by activating CAR. Endocrinology, 2022, , .	1.4	2
105	Dysregulation of Lipid and Glucose Homeostasis in Hepatocyte-Specific SLC25A34 Knockout Mice. American Journal of Pathology, 2022, 192, 1259-1281.	1.9	2
106	Rebuttal from Max C. Petersen and Michael J. Jurczak. Journal of Physiology, 2016, 594, 3177-3178.	1.3	0
107	Orbital shaking drives differential changes in OK proximal tubule cell metabolism and endocytosis. FASEB Journal, 2019, 33, 749.6.	0.2	0