Varman T Samuel

List of Publications by Year
in descending order

92 papers	17,118 citations	26567 56 h-index	42291 92 g-index
94 all docs	94 docs citations	94 times ranked	24001 citing authors

#	Article	IF	Citations
1	Mechanisms for Insulin Resistance: Common Threads and Missing Links. Cell, 2012, 148, 852-871.	13.5	1,681
2	Mechanism of Hepatic Insulin Resistance in Non-alcoholic Fatty Liver Disease. Journal of Biological Chemistry, 2004, 279, 32345-32353.	1.6	1,069
3	Metformin suppresses gluconeogenesis by inhibiting mitochondrial glycerophosphate dehydrogenase. Nature, 2014, 510, 542-546.	13.7	989
4	Lipid-induced insulin resistance: unravelling the mechanism. Lancet, The, 2010, 375, 2267-2277.	6.3	944
5	The pathogenesis of insulin resistance: integrating signaling pathways and substrate flux. Journal of Clinical Investigation, 2016, 126, 12-22.	3.9	924
6	The role of hepatic lipids in hepatic insulin resistance and type 2 diabetes. Nature, 2014, 510, 84-91.	13.7	898
7	Standard operating procedures for describing and performing metabolic tests of glucose homeostasis in mice. DMM Disease Models and Mechanisms, 2010, 3, 525-534.	1.2	606
8	FGF19 as a Postprandial, Insulin-Independent Activator of Hepatic Protein and Glycogen Synthesis. Science, 2011, 331, 1621-1624.	6.0	504
9	Nonalcoholic Fatty Liver Disease as a Nexus of Metabolic and Hepatic Diseases. Cell Metabolism, 2018, 27, 22-41.	7.2	496
10	Cellular mechanism of insulin resistance in nonalcoholic fatty liver disease. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16381-16385.	3.3	475
11	Desnutrin/ATGL Is Regulated by AMPK and Is Required for a Brown Adipose Phenotype. Cell Metabolism, 2011, 13, 739-748.	7.2	440
12	Inhibition of protein kinase CÎµ prevents hepatic insulin resistance in nonalcoholic fatty liver disease. Journal of Clinical Investigation, 2007, 117, 739-745.	3.9	427
13	Reversal of diet-induced hepatic steatosis and hepatic insulin resistance by antisense oligonucleotide inhibitors of acetyl-CoA carboxylases 1 and 2. Journal of Clinical Investigation, 2006, 116, 817-824.	3.9	377
14	Obesity, adiposity, and dyslipidemia: A consensus statement from the National Lipid Association. Journal of Clinical Lipidology, 2013, 7, 304-383.	0.6	346
15	Suppression of Diacylglycerol Acyltransferase-2 (DGAT2), but Not DGAT1, with Antisense Oligonucleotides Reverses Diet-induced Hepatic Steatosis and Insulin Resistance. Journal of Biological Chemistry, 2007, 282, 22678-22688.	1.6	319
16	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
17	Paradoxical effects of increased expression of PGC-1Î± on muscle mitochondrial function and insulin-stimulated muscle glucose metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19926-19931.	3.3	257
18	O-GlcNAc Transferase/Host Cell Factor C1 Complex Regulates Gluconeogenesis by Modulating PGC-1Î± Stability. Cell Metabolism, 2012, 16, 226-237.	7.2	239

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19	AdPLA ablation increases lipolysis and prevents obesity induced by high-fat feeding or leptin deficiency. Nature Medicine, 2009, 15, 159-168.	15.2	234
20	Fructose induced lipogenesis: from sugar to fat to insulin resistance. Trends in Endocrinology and Metabolism, 2011, 22, 60-65.	3.1	218
21	SGLT2 Deletion Improves Glucose Homeostasis and Preserves Pancreatic Î²-Cell Function. Diabetes, 2011, 60, 890-898.	0.3	197
22	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
23	Cellular Mechanisms by Which FGF21 Improves Insulin Sensitivity in Male Mice. Endocrinology, 2013, 154, 3099-3109.	1.4	184
24	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
25	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
26	Insulin receptor Thr1160 phosphorylation mediates lipid-induced hepatic insulin resistance. Journal of Clinical Investigation, 2016, 126, 4361-4371.	3.9	173
27	SirT1 knockdown in liver decreases basal hepatic glucose production and increases hepatic insulin responsiveness in diabetic rats. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11288-11293.	3.3	169
28	A high-protein diet for reducing body fat: mechanisms and possible caveats. Nutrition and Metabolism, 2014, 11, 53.	1.3	169
29	The Sweet Path to Metabolic Demise: Fructose and Lipid Synthesis. Trends in Endocrinology and Metabolism, 2016, 27, 719-730.	3.1	166
30	Inhibition of Notch signaling ameliorates insulin resistance in a FoxO1-dependent manner. Nature Medicine, 2011, 17, 961-967.	15.2	165
31	Targeting Foxo1 in Mice Using Antisense Oligonucleotide Improves Hepatic and Peripheral Insulin Action. Diabetes, 2006, 55, 2042-2050.	0.3	160
32	Adipose Overexpression of Desnutrin Promotes Fatty Acid Use and Attenuates Diet-Induced Obesity. Diabetes, 2009, 58, 855-866.	0.3	160
33	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
34	Fasting hyperglycemia is not associated with increased expression of PEPCK or G6Pc in patients with Type 2 Diabetes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12121-12126.	3.3	139
35	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
36	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

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37	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
38	Deletion of the Î±-Arrestin Protein Txnip in Mice Promotes Adiposity and Adipogenesis While Preserving Insulin Sensitivity. Diabetes, 2010, 59, 1424-1434.	0.3	131
39	Hepatic Diacylglycerol-Associated Protein Kinase CÎµ Translocation Links Hepatic Steatosis to Hepatic Insulin Resistance in Humans. Cell Reports, 2017, 19, 1997-2004.	2.9	117
40	Apolipoprotein CIII overexpressing mice are predisposed to dietâ€induced hepatic steatosis and hepatic insulin resistance. Hepatology, 2011, 54, 1650-1660.	3.6	114
41	Targeting Pyruvate Carboxylase Reduces Gluconeogenesis and Adiposity and Improves Insulin Resistance. Diabetes, 2013, 62, 2183-2194.	0.3	107
42	The Role of Muscle Insulin Resistance in the Pathogenesis of Atherogenic Dyslipidemia and Nonalcoholic Fatty Liver Disease Associated with the Metabolic Syndrome. Annual Review of Nutrition, 2010, 30, 273-290.	4.3	105
43	Muscle-Specific IRS-1 Serâ†'Ala Transgenic Mice Are Protected From Fat-Induced Insulin Resistance in Skeletal Muscle. Diabetes, 2008, 57, 2644-2651.	0.3	102
44	Prevention of Hepatic Steatosis and Hepatic Insulin Resistance by Knockdown of cAMP Response Element-Binding Protein. Cell Metabolism, 2009, 10, 499-506.	7.2	91
45	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
46	Thyroid hormone receptor-Î² agonists prevent hepatic steatosis in fat-fed rats but impair insulin sensitivity via discrete pathways. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E89-E100.	1.8	84
47	A Membrane-Bound Diacylglycerol Species Induces PKCÏµ-Mediated Hepatic Insulin Resistance. Cell Metabolism, 2020, 32, 654-664.e5.	7.2	83
48	The Role of the Carbohydrate Response Element-Binding Protein in Male Fructose-Fed Rats. Endocrinology, 2013, 154, 36-44.	1.4	73
49	Role of patatinâ€like phospholipase domainâ€containing 3 on lipidâ€induced hepatic steatosis and insulin resistance in rats. Hepatology, 2013, 57, 1763-1772.	3.6	72
50	Determination of mesenchymal stem cell fate by pigment epitheliumâ€derived factor (PEDF) results in increased adiposity and reduced bone mineral content. FASEB Journal, 2013, 27, 4384-4394.	0.2	71
51	Low Density Lipoprotein (LDL) Receptor-related Protein 6 (LRP6) Regulates Body Fat and Glucose Homeostasis by Modulating Nutrient Sensing Pathways and Mitochondrial Energy Expenditure. Journal of Biological Chemistry, 2012, 287, 7213-7223.	1.6	67
52	Regulation of Hepatic Energy Metabolism and Gluconeogenesis by BAD. Cell Metabolism, 2014, 19, 272-284.	7.2	67
53	Nonalcoholic Fatty Liver Disease, Insulin Resistance, and Ceramides. New England Journal of Medicine, 2019, 381, 1866-1869.	13.9	67
54	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

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55	Regulation of Mitochondrial Biogenesis by Lipoprotein Lipase in Muscle of Insulin-Resistant Offspring of Parents With Type 2 Diabetes. Diabetes, 2012, 61, 877-887.	0.3	63
56	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
57	MAPK phosphatase-1 facilitates the loss of oxidative myofibers associated with obesity in mice. Journal of Clinical Investigation, 2009, 119, 3817-3829.	3.9	57
58	Chemical and genetic evidence for the involvement of Wnt antagonist Dickkopf2 in regulation of glucose metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11402-11407.	3.3	52
59	Angptl8 antisense oligonucleotide improves adipose lipid metabolism and prevents diet-induced NAFLD and hepatic insulin resistance in rodents. Diabetologia, 2018, 61, 1435-1446.	2.9	52
60	PKCÎµ contributes to lipid-induced insulin resistance through cross talk with p70S6K and through previously unknown regulators of insulin signaling. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8996-E9005.	3.3	51
61	Metabolic control analysis of hepatic glycogen synthesis in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8166-8176.	3.3	51
62	Diabetes in Mice With Selective Impairment of Insulin Action in Glut4-Expressing Tissues. Diabetes, 2011, 60, 700-709.	0.3	48
63	Tumor Progression Locus 2 (TPL2) Regulates Obesity-Associated Inflammation and Insulin Resistance. Diabetes, 2011, 60, 1168-1176.	0.3	47
64	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
65	Argininosuccinate synthetase regulates hepatic AMPK linking protein catabolism and ureagenesis to hepatic lipid metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3423-30.	3.3	45
66	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
67	Hepatic insulin resistance and increased hepatic glucose production in mice lacking Fgf21. Journal of Endocrinology, 2015, 226, 207-217.	1.2	41
68	PP2A inhibition results in hepatic insulin resistance despite Akt2 activation. Aging, 2013, 5, 770-781.	1.4	34
69	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
70	Fatty acid amide hydrolase ablation promotes ectopic lipid storage and insulin resistance due to centrally mediated hypothyroidism. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14966-14971.	3.3	32
71	Hepatic glucose production pathways after three days of a high-fat diet. Metabolism: Clinical and Experimental, 2013, 62, 152-162.	1.5	32
72	Knockdown of the gene encoding Drosophila tribbles homologue 3 (Trib3) improves insulin sensitivity through peroxisome proliferator-activated receptor-Î³ (PPAR-Î³) activation in a rat model of insulin resistance. Diabetologia, 2011, 54, 935-944.	2.9	27

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73	Insulin resistance is associated with elevated serum pigment epitheliumâ€“derived factor (PEDF) levels in morbidly obese patients. Acta Diabetologica, 2012, 49, 161-169.	1.2	27
74	Pigment Epithelium-Derived Factor (PEDF) Suppresses IL-1Î²-Mediated c-Jun N-Terminal Kinase (JNK) Activation to Improve Hepatocyte Insulin Signaling. Endocrinology, 2014, 155, 1373-1385.	1.4	27
75	Short-term food restriction followed by controlled refeeding promotes gorging behavior, enhances fat deposition, and diminishes insulin sensitivity in mice. Journal of Nutritional Biochemistry, 2015, 26, 721-728.	1.9	24
76	3,5 Diiodo-L-Thyronine (T2) Does Not Prevent Hepatic Steatosis or Insulin Resistance in Fat-Fed Sprague Dawley Rats. PLoS ONE, 2015, 10, e0140837.	1.1	23
77	Enhanced Fasting Glucose Turnover in Mice with Disrupted Action of TUG Protein in Skeletal Muscle. Journal of Biological Chemistry, 2013, 288, 20135-20150.	1.6	20
78	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
79	cAMP-responsive Element-binding Protein (CREB)-regulated Transcription Coactivator 2 (CRTC2) Promotes Glucagon Clearance and Hepatic Amino Acid Catabolism to Regulate Glucose Homeostasis. Journal of Biological Chemistry, 2013, 288, 16167-16176.	1.6	19
80	The neuropilin-like protein ESDN regulates insulin signaling and sensitivity. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H1184-H1193.	1.5	15
81	Membrane-bound sn-1,2-diacylglycerols explain the dissociation of hepatic insulin resistance from hepatic steatosis in MTTP knockout mice. Journal of Lipid Research, 2020, 61, 1565-1576.	2.0	15
82	Coordinated Regulation of Vasopressin Inactivation and Glucose Uptake by Action of TUG Protein in Muscle. Journal of Biological Chemistry, 2015, 290, 14454-14461.	1.6	13
83	Short-term overnutrition induces white adipose tissue insulin resistance through sn-1,2-diacylglycerol â€“ PKCÎµ â€“ insulin receptorT1160 phosphorylation. JCI Insight, 2021, 6, .	2.3	13
84	Fasting hyperglycemia in the Goto-Kakizaki rat is dependent on corticosterone: a confounding variable in rodent models of type 2 diabetes. DMM Disease Models and Mechanisms, 2012, 5, 681-5.	1.2	12
85	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
86	Adipose glucocorticoid action influences wholeâ€body metabolism<i>via</i>modulation of hepatic insulin action. FASEB Journal, 2019, 33, 8174-8185.	0.2	12
87	Ectopic lipid deposition mediates insulin resistance in adipose specific 11Î²-hydroxysteroid dehydrogenase type 1 transgenic mice. Metabolism: Clinical and Experimental, 2019, 93, 1-9.	1.5	11
88	Distinct Hepatic PKA and CDK Signaling Pathways Control Activity-Independent Pyruvate Kinase Phosphorylation and Hepatic Glucose Production. Cell Reports, 2019, 29, 3394-3404.e9.	2.9	8
89	Considering the Links Between Nonalcoholic Fatty Liver Disease and Insulin Resistance: Revisiting the Role of Protein Kinase C Îµ. Hepatology, 2019, 70, 2217-2220.	3.6	6
90	PEPCK1 Antisense Oligonucleotide Prevents Adiposity and Impairs Hepatic Glycogen Synthesis in High-Fat Male Fed Rats. Endocrinology, 2019, 160, 205-219.	1.4	6

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91	Targeting steroid receptor coactivator 1 with antisense oligonucleotides increases insulin-stimulated skeletal muscle glucose uptake in chow-fed and high-fat-fed male rats. American Journal of Physiology - Endocrinology and Metabolism, 2014, 307, E773-E783.	1.8	4
92	The emerging role of oestrogen-related receptor Î³ as a regulator of energy metabolism. Diabetologia, 2014, 57, 2440-2443.	2.9	1