

# William I Sivitz

## List of Publications by Year in descending order

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93  
papers

6,912  
citations

76326

40  
h-index

58581

82  
g-index

94  
all docs

94  
docs citations

94  
times ranked

8800  
citing authors

#	ARTICLE	IF	CITATIONS
1	Membrane potential-dependent regulation of mitochondrial complex II by oxaloacetate in interscapular brown adipose tissue. <i>FASEB BioAdvances</i> , 2022, 4, 197-210.	2.4	4
2	A Novel Triphenylphosphonium Carrier to Target Mitochondria without Uncoupling Oxidative Phosphorylation. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 662-676.	6.4	50
3	Effect of mitoquinone on liver metabolism and steatosis in obese and diabetic rats. <i>Pharmacology Research and Perspectives</i> , 2021, 9, e00701.	2.4	7
4	Perilipin 2 downregulation in $\beta^2$ cells impairs insulin secretion under nutritional stress and damages mitochondria. <i>JCI Insight</i> , 2021, 6, .	5.0	10
5	Insulin and IGF-1 receptors regulate complex II-dependent mitochondrial bioenergetics and supercomplexes via FoxOs in muscle. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	28
6	Simultaneous Quantification of Mitochondrial ATP and Using ATP Methodology. <i>Methods in Molecular Biology</i> , 2021, 2276, 271-283.	0.9	0
7	An Observational Study of the Equivalence of Age and Duration of Diabetes to Glycemic Control Relative to the Risk of Complications in the Combined Cohorts of the DCCT/EDIC Study. <i>Diabetes Care</i> , 2020, 43, 2478-2484.	8.6	19
8	Adipose Triglyceride Lipase Is a Key Lipase for the Mobilization of Lipid Droplets in Human $\beta^2$ -Cells and Critical for the Maintenance of Syntaxin 1a Levels in $\beta^2$ -Cells. <i>Diabetes</i> , 2020, 69, 1178-1192.	0.6	20
9	Optimization of Metformin in the GRADE Cohort: Effect on Glycemia and Body Weight. <i>Diabetes Care</i> , 2020, 43, 940-947.	8.6	14
10	Adipose Triglyceride Lipase is a Key Lipase for the Mobilization of Lipid Droplets in Human Beta Cells and Critical for the Maintenance of Syntaxin1a Level in Beta Cells. <i>Diabetes</i> , 2020, , db190951.	0.6	0
11	Effect of mitoquinone (Mito-Q) on neuropathic endpoints in an obese and type 2 diabetic rat model. <i>Free Radical Research</i> , 2020, 54, 311-318.	3.3	19
12	Oxaloacetate Mediates Mitochondrial Metabolism and Function. <i>Current Metabolomics and Systems Biology</i> , 2020, 7, 11-23.	0.6	5
13	Modulation of complex II-energized respiration in muscle, heart, and brown adipose mitochondria by oxaloacetate and complex I electron flow. <i>FASEB Journal</i> , 2019, 33, 11696-11705.	0.5	15
14	Risk Factors for Retinopathy in Type 1 Diabetes: The DCCT/EDIC Study. <i>Diabetes Care</i> , 2019, 42, 875-882.	8.6	114
15	Association of Insulin Dose, Cardiometabolic Risk Factors, and Cardiovascular Disease in Type 1 Diabetes During 30 Years of Follow-up in the DCCT/EDIC Study. <i>Diabetes Care</i> , 2019, 42, 657-664.	8.6	32
16	Response to Comment on Braffett et al. Association of Insulin Dose, Cardiometabolic Risk Factors, and Cardiovascular Disease in Type 1 Diabetes During 30 Years of Follow-up in the DCCT/EDIC Study. <i>Diabetes Care</i> 2019;42:657-664. <i>Diabetes Care</i> , 2019, 42, e137-e137.	8.6	0
17	Oxaloacetic acid mediates ADP-dependent inhibition of mitochondrial complex II-driven respiration. <i>Journal of Biological Chemistry</i> , 2018, 293, 19932-19941.	3.4	30
18	Effect of a mitochondrial-targeted coenzyme Q analog on pancreatic $\beta^2$ -cell function and energetics in high fat fed obese mice. <i>Pharmacology Research and Perspectives</i> , 2018, 6, e00393.	2.4	26

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19	Metabolic effects of a mitochondrial-targeted coenzyme Q analog in high fat fed obese mice. <i>Pharmacology Research and Perspectives</i> , 2017, 5, e00301.	2.4	22
20	Regulation of ATP production: dependence on calcium concentration and respiratory state. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 313, C146-C153.	4.6	57
21	Techniques to Investigate Bioenergetics of Mitochondria. <i>NeuroMethods</i> , 2017, , 67-94.	0.3	1
22	Impact of Excessive Weight Gain on Cardiovascular Outcomes in Type 1 Diabetes: Results From the Diabetes Control and Complications Trial/Epidemiology of Diabetes Interventions and Complications (DCCT/EDIC) Study. <i>Diabetes Care</i> , 2017, 40, 1756-1762.	8.6	77
23	Voltage-Dependent Regulation of Complex II Energized Mitochondrial Oxygen Flux. <i>PLoS ONE</i> , 2016, 11, e0154982.	2.5	13
24	Impaired utilization of membrane potential by complex II-energized mitochondria of obese, diabetic mice assessed using ADP recycling methodology. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 311, R756-R763.	1.8	7
25	Human iPS Cell-Derived Insulin Producing Cells Form Vascularized Organoids under the Kidney Capsules of Diabetic Mice. <i>PLoS ONE</i> , 2015, 10, e0116582.	2.5	48
26	Evidence for metabolic aberrations in asymptomatic persons with type 2 diabetes after initiation of simvastatin therapy. <i>Translational Research</i> , 2015, 166, 176-187.	5.0	4
27	Simultaneous Quantification of Mitochondrial ATP and ROS Production. <i>Methods in Molecular Biology</i> , 2015, 1264, 149-159.	0.9	10
28	Mitochondria and Oxidative Stress in Diabetes. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2014, , 63-92.	0.4	0
29	Joiner et al. reply. <i>Nature</i> , 2014, 513, E3-E3.	27.8	9
30	Dietary fat, fatty acid saturation and mitochondrial bioenergetics. <i>Journal of Bioenergetics and Biomembranes</i> , 2014, 46, 33-44.	2.3	41
31	A Mitochondrial-Targeted Coenzyme Q Analog Prevents Weight Gain and Ameliorates Hepatic Dysfunction in High-Fat-Fed Mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 351, 699-708.	2.5	39
32	Mitochondrial Function in Diabetes: Novel Methodology and New Insight. <i>Diabetes</i> , 2013, 62, 1833-1842.	0.6	29
33	Reversibility of Fenofibrate Therapy-Induced Renal Function Impairment in ACCORD Type 2 Diabetic Participants. <i>Diabetes Care</i> , 2012, 35, 1008-1014.	8.6	114
34	Peroxisome Proliferator-Activated Receptor $\beta$ Decouples Fatty Acid Uptake from Lipid Inhibition of Insulin Signaling in Skeletal Muscle. <i>Molecular Endocrinology</i> , 2012, 26, 977-988.	3.7	21
35	CaMKII determines mitochondrial stress responses in heart. <i>Nature</i> , 2012, 491, 269-273.	27.8	340
36	Bioenergetic Effects of Mitochondrial-Targeted Coenzyme Q Analogs in Endothelial Cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012, 342, 709-719.	2.5	52

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37	Endothelial Cell and Platelet Bioenergetics: Effect of Glucose and Nutrient Composition. PLoS ONE, 2012, 7, e39430.	2.5	36
38	Modifying a high saturated fat diet with omega-3 polyunsaturated fat improves vascular dysfunction and glucose intolerance. FASEB Journal, 2012, 26, 686.13.	0.5	0
39	Modifying a high fat diet with mono and polyunsaturated fats improves coronary dysfunction. FASEB Journal, 2012, 26, 1055.7.	0.5	0
40	Feeding Frequency and Appetite in Lean and Obese Prepubertal Children. Obesity, 2011, 19, 560-567.	3.0	3
41	Mitochondrial superoxide and coenzyme Q in insulin-deficient rats: increased electron leak. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R1616-R1624.	1.8	14
42	Superoxide production by mitochondria of insulin-sensitive tissues: mechanistic differences and effect of early diabetes. Metabolism: Clinical and Experimental, 2010, 59, 247-257.	3.4	21
43	The association between symptomatic, severe hypoglycaemia and mortality in type 2 diabetes: retrospective epidemiological analysis of the ACCORD study. BMJ: British Medical Journal, 2010, 340, b4909-b4909.	2.3	807
44	Mitochondrial Dysfunction in Diabetes: From Molecular Mechanisms to Functional Significance and Therapeutic Opportunities. Antioxidants and Redox Signaling, 2010, 12, 537-577.	5.4	600
45	Superoxide and Respiratory Coupling in Mitochondria of Insulin-Deficient Diabetic Rats. Endocrinology, 2009, 150, 46-55.	2.8	64
46	Leptin Gene -2548G/A variants predict risperidone-associated weight gain in children and adolescents. Psychiatric Genetics, 2009, 19, 320-327.	1.1	47
47	Mitochondrial Targeted Coenzyme Q, Superoxide, and Fuel Selectivity in Endothelial Cells. PLoS ONE, 2009, 4, e4250.	2.5	18
48	Endogenous Peroxisome Proliferator-Activated Receptor- $\gamma$ Augments Fatty Acid Uptake in Oxidative Muscle. Endocrinology, 2008, 149, 5374-5383.	2.8	12
49	Mitochondrial proton leak in obesity-resistant and obesity-prone mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R1773-R1780.	1.8	39
50	Ectopic brown adipose tissue in muscle provides a mechanism for differences in risk of metabolic syndrome in mice. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2366-2371.	7.1	256
51	Obesity impairs vascular relaxation in human subjects: hyperglycemia exaggerates adrenergic vasoconstriction. Journal of Diabetes and Its Complications, 2007, 21, 149-157.	2.3	53
52	Antecedent Hypoglycemia, Catecholamine Depletion, and Subsequent Sympathetic Neural Responses. Endocrinology, 2006, 147, 2781-2788.	2.8	35
53	Reactive Oxygen and Targeted Antioxidant Administration in Endothelial Cell Mitochondria. Journal of Biological Chemistry, 2006, 281, 39766-39775.	3.4	106
54	Respiratory uncoupling by UCP1 and UCP2 and superoxide generation in endothelial cell mitochondria. American Journal of Physiology - Endocrinology and Metabolism, 2005, 288, E71-E79.	3.5	45

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55	Scintigraphic Detection of Benign Struma Ovarii in a Hyperthyroid Patient. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005, 90, 3771-3772.	3.6	14
56	Glycation and Carboxymethyllysine Levels in Skin Collagen Predict the Risk of Future 10-Year Progression of Diabetic Retinopathy and Nephropathy in the Diabetes Control and Complications Trial and Epidemiology of Diabetes Interventions and Complications Participants With Type 1 Diabetes. <i>Diabetes</i> , 2005, 54, 3103-3111.	0.6	384
57	Cyclic Changes in Glycemia Assessed by Continuous Glucose Monitoring System During Multiple Complete Menstrual Cycles in Women with Type 1 Diabetes. <i>Diabetes Technology and Therapeutics</i> , 2004, 6, 473-480.	4.4	32
58	Free Fatty Acid-induced $\beta$ -Cell Defects Are Dependent on Uncoupling Protein 2 Expression. <i>Journal of Biological Chemistry</i> , 2004, 279, 51049-51056.	3.4	179
59	Adiponectin and C-reactive protein in obesity, type 2 diabetes, and monodrug therapy. <i>Metabolism: Clinical and Experimental</i> , 2004, 53, 1454-1461.	3.4	62
60	Understanding insulin resistance. <i>Postgraduate Medicine</i> , 2004, 116, 41-48.	2.0	4
61	Leptin administration to normal rats does not alter catecholamine responsiveness to insulin-induced hypoglycemia. <i>Metabolism: Clinical and Experimental</i> , 2003, 52, 1484-1490.	3.4	3
62	Leptin and Body Fat in Type 2 Diabetes and Monodrug Therapy. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2003, 88, 1543-1553.	3.6	40
63	UCP2-dependent Proton Leak in Isolated Mammalian Mitochondria. <i>Journal of Biological Chemistry</i> , 2002, 277, 3918-3925.	3.4	65
64	The Concept of Selective Leptin Resistance: Evidence From Agouti Yellow Obese Mice. <i>Diabetes</i> , 2002, 51, 439-442.	0.6	202
65	Leptin Potentiates Thermogenic Sympathetic Responses to Hypothermia: A Receptor-Mediated Effect. <i>Diabetes</i> , 2002, 51, 2434-2440.	0.6	50
66	Uncoupling Metabolism and Coupling Leptin to Cardiovascular Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2002, 22, 881-883.	2.4	14
67	Differential modulation of leptin-induced sympathoexcitation by baroreflex activation. <i>Journal of Hypertension</i> , 2002, 20, 1633-1641.	0.5	39
68	Hemodynamic consequences of neuropeptide Y-induced obesity. <i>American Journal of Hypertension</i> , 2002, 15, 137-142.	2.0	15
69	Leptin interacts with heart rate but not sympathetic nerve traffic in healthy male subjects. <i>Journal of Hypertension</i> , 2001, 19, 1089-1094.	0.5	59
70	Role of Corticotrophin-Releasing Factor in Effects of Leptin on Sympathetic Nerve Activity and Arterial Pressure. <i>Hypertension</i> , 2001, 38, 384-388.	2.7	59
71	Leptin Acts in the Central Nervous System to Produce Dose-Dependent Changes in Arterial Pressure. <i>Hypertension</i> , 2001, 37, 936-942.	2.7	138
72	Lipotoxicity and glucotoxicity in type 2 diabetes. <i>Postgraduate Medicine</i> , 2001, 109, 55-64.	2.0	31

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73	Effect of Acute and Antecedent Hypoglycemia on Sympathetic Neural Activity and Catecholamine Responsiveness in Normal Rats. <i>Diabetes</i> , 2001, 50, 1119-1125.	0.6	28
74	Does Leptin Stimulate Nitric Oxide to Oppose the Effects of Sympathetic Activation?. <i>Hypertension</i> , 2001, 38, 1081-1086.	2.7	61
75	Pubertal Adolescent Male-Female Differences in Insulin Sensitivity and Glucose Effectiveness Determined by the One Compartment Minimal Model. <i>Pediatric Research</i> , 2000, 48, 384-388.	2.3	105
76	Fasting and Leptin Modulate Adipose and Muscle Uncoupling Protein: Divergent Effects Between Messenger Ribonucleic Acid and Protein Expression <sup>1</sup> . <i>Endocrinology</i> , 1999, 140, 1511-1519.	2.8	101
77	Interactions Between the Melanocortin System and Leptin in Control of Sympathetic Nerve Traffic. <i>Hypertension</i> , 1999, 33, 542-547.	2.7	349
78	Heritability of plasma leptin levels. <i>Journal of Hypertension</i> , 1999, 17, 27-31.	0.5	51
79	Plasma leptin in diabetic and insulin-treated diabetic and normal rats. <i>Metabolism: Clinical and Experimental</i> , 1998, 47, 584-591.	3.4	61
80	Effects of Leptin on Insulin Sensitivity in Normal Rats*. <i>Endocrinology</i> , 1997, 138, 3395-3401.	2.8	234
81	Sympathetic and Cardiorenal Actions of Leptin. <i>Hypertension</i> , 1997, 30, 619-623.	2.7	276
82	Effect of Maternal Diabetes upon Fetal Rat Myocardial and Skeletal Muscle Glucose Transporters <sup>1</sup> . <i>Pediatric Research</i> , 1997, 41, 11-19.	2.3	40
83	Rat Adipose ob mRNA Levels in States of Altered Circulating Glucose and Insulin. <i>Biochemical and Biophysical Research Communications</i> , 1996, 220, 520-525.	2.1	33
84	Time-dependent regulation of rat adipose tissue glucose transporter (GLUT4) mRNA and protein by insulin in streptozocin-diabetic and normal rats. <i>Metabolism: Clinical and Experimental</i> , 1992, 41, 1267-1272.	3.4	12
85	Mammalian Glucose Transporters: Structure and Molecular Regulation. , 1991, 47, 349-388.		66
86	Assessment of Glucose Transporter Gene Expression Using the Polymerase Chain Reaction. <i>Endocrinology</i> , 1991, 128, 2387-2394.	2.8	18
87	Regulation of the Glucose Transporter in Animal Models of Diabetes. <i>Advances in Experimental Medicine and Biology</i> , 1991, 293, 249-262.	1.6	4
88	Regulation of Glucose Transporter Messenger RNA Levels in Rat Adipose Tissue by Insulin. <i>Molecular Endocrinology</i> , 1990, 4, 583-588.	3.7	40
89	Computer-Assisted Instruction in Intense Insulin Therapy Using a Mathematical Model for Clinical Simulation With a Clinical Algorithm and Flow Sheet. <i>The Diabetes Educator</i> , 1989, 15, 77-79.	2.5	26
90	Regulation of the Glucose Transporter in Developing Rat Brain*. <i>Endocrinology</i> , 1989, 124, 1875-1880.	2.8	77

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91	Regulation of glucose transporter messenger RNA in insulin-deficient states. <i>Nature</i> , 1989, 340, 72-74.	27.8	247
92	Case Report: Renal Hypophosphatemic Osteomalacia Unmasked by Hyperthyroidism. <i>American Journal of the Medical Sciences</i> , 1986, 292, 231-234.	1.1	1
93	Cellular Mechanisms of Insulin Release: The Effects of Vitamin D Deficiency and Repletion on Rat Insulin Secretion*. <i>Endocrinology</i> , 1983, 113, 1511-1518.	2.8	175