

# Vernon W Dolinsky

## List of Publications by Year in descending order

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66  
papers

2,457  
citations

236925

25  
h-index

214800

47  
g-index

72  
all docs

72  
docs citations

72  
times ranked

3975  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sirtuin-3 (SIRT3) Protein Attenuates Doxorubicin-induced Oxidative Stress and Improves Mitochondrial Respiration in H9c2 Cardiomyocytes. <i>Journal of Biological Chemistry</i> , 2015, 290, 10981-10993.	3.4	142
2	Improvements in skeletal muscle strength and cardiac function induced by resveratrol during exercise training contribute to enhanced exercise performance in rats. <i>Journal of Physiology</i> , 2012, 590, 2783-2799.	2.9	138
3	Calorie restriction and resveratrol in cardiovascular health and disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011, 1812, 1477-1489.	3.8	137
4	Maternal obesity, diabetes during pregnancy and epigenetic mechanisms that influence the developmental origins of cardiometabolic disease in the offspring. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2018, 55, 71-101.	6.1	136
5	Association Between Artificially Sweetened Beverage Consumption During Pregnancy and Infant Body Mass Index. <i>JAMA Pediatrics</i> , 2016, 170, 662.	6.2	126
6	Role of AMP-activated protein kinase in healthy and diseased hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H2557-H2569.	3.2	115
7	Hypoxia-Induced Intrauterine Growth Restriction Increases the Susceptibility of Rats to High-Fat Diet-Induced Metabolic Syndrome. <i>Diabetes</i> , 2011, 60, 507-516.	0.6	115
8	Calorie Restriction Prevents Hypertension and Cardiac Hypertrophy in the Spontaneously Hypertensive Rat. <i>Hypertension</i> , 2010, 56, 412-421.	2.7	109
9	Both aerobic exercise and resveratrol supplementation attenuate doxorubicin-induced cardiac injury in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 305, E243-E253.	3.5	105
10	Exposure to gestational diabetes mellitus induces neuroinflammation, derangement of hippocampal neurons, and cognitive changes in rat offspring. <i>Journal of Neuroinflammation</i> , 2017, 14, 80.	7.2	105
11	Maternal $\beta$ -Cell Adaptations in Pregnancy and Placental Signalling: Implications for Gestational Diabetes. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3467.	4.1	79
12	Maternal obesity characterized by gestational diabetes increases the susceptibility of rat offspring to hepatic steatosis via a disrupted liver metabolome. <i>Journal of Physiology</i> , 2015, 593, 3181-3197.	2.9	77
13	Continued Postnatal Administration of Resveratrol Prevents Diet-Induced Metabolic Syndrome in Rat Offspring Born Growth Restricted. <i>Diabetes</i> , 2011, 60, 2274-2284.	0.6	67
14	Cardiac mitochondrial energy metabolism in heart failure: Role of cardiolipin and sirtuins. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 1544-1554.	2.4	62
15	BNIP3L/Nix-induced mitochondrial fission, mitophagy, and impaired myocyte glucose uptake are abrogated by PRKA/PKA phosphorylation. <i>Autophagy</i> , 2021, 17, 2257-2272.	9.1	59
16	Maternal Macronutrient Consumption and the Developmental Origins of Metabolic Disease in the Offspring. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1451.	4.1	56
17	Early-Life Exposure to Non-Nutritive Sweeteners and the Developmental Origins of Childhood Obesity: Global Evidence from Human and Rodent Studies. <i>Nutrients</i> , 2018, 10, 194.	4.1	46
18	Influence of maternal overnutrition and gestational diabetes on the programming of metabolic health outcomes in the offspring: experimental evidence. <i>Biochemistry and Cell Biology</i> , 2015, 93, 438-451.	2.0	44

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19	Bcl-2 Regulates Reactive Oxygen Species Signaling and a Redox-Sensitive Mitochondrial Proton Leak in Mouse Pancreatic $\beta$ -Cells. <i>Endocrinology</i> , 2016, 157, 2270-2281.	2.8	41
20	Myocardin regulates mitochondrial calcium homeostasis and prevents permeability transition. <i>Cell Death and Differentiation</i> , 2018, 25, 1732-1748.	11.2	38
21	Resveratrol for adults with type 2 diabetes mellitus. <i>The Cochrane Library</i> , 2020, 2020, CD011919.	2.8	37
22	The role of sirtuins in mitochondrial function and doxorubicin-induced cardiac dysfunction. <i>Biological Chemistry</i> , 2017, 398, 955-974.	2.5	36
23	Regulation of triacylglycerol hydrolase expression by dietary fatty acids and peroxisomal proliferator-activated receptors. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2003, 1635, 20-28.	2.4	32
24	Maternal resveratrol administration protects against gestational diabetes-induced glucose intolerance and islet dysfunction in the rat offspring. <i>Journal of Physiology</i> , 2019, 597, 4175-4192.	2.9	31
25	Thyroxine regulation of monolysocardiolipin acyltransferase activity in rat heart. <i>Biochemical Journal</i> , 2000, 346, 403-406.	3.7	29
26	Targeting skeletal muscle mitochondria to prevent type 2 diabetes in youth. <i>Biochemistry and Cell Biology</i> , 2015, 93, 452-465.	2.0	27
27	Nonnutritive sweetener consumption during pregnancy, adiposity, and adipocyte differentiation in offspring: evidence from humans, mice, and cells. <i>International Journal of Obesity</i> , 2020, 44, 2137-2148.	3.4	27
28	Experimental Studies of the Molecular Pathways Regulated by Exercise and Resveratrol in Heart, Skeletal Muscle and the Vasculature. <i>Molecules</i> , 2014, 19, 14919-14947.	3.8	26
29	Hyaluronidase 2 Deficiency Causes Increased Mesenchymal Cells, Congenital Heart Defects, and Heart Failure. <i>Circulation: Cardiovascular Genetics</i> , 2017, 10, .	5.1	26
30	Cardiolipin deficiency elevates susceptibility to a lipotoxic hypertrophic cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2020, 144, 24-34.	1.9	25
31	Mitochondrial Sirtuin-3 (SIRT3) Prevents Doxorubicin-Induced Dilated Cardiomyopathy by Modulating Protein Acetylation and Oxidative Stress. <i>Circulation: Heart Failure</i> , 2022, 15, 101161CIRCHEARTFAILURE121008547.	3.9	25
32	Uncoupling protein 2 regulates daily rhythms of insulin secretion capacity in MIN6 cells and isolated islets from male mice. <i>Molecular Metabolism</i> , 2017, 6, 760-769.	6.5	24
33	Therapies for gestational diabetes and their implications for maternal and offspring health: Evidence from human and animal studies. <i>Pharmacological Research</i> , 2018, 130, 52-73.	7.1	21
34	Gestational Diabetes Adversely Affects Pancreatic Islet Architecture and Function in the Male Rat Offspring. <i>Endocrinology</i> , 2019, 160, 1907-1925.	2.8	21
35	The Cardiac Lipidome in Models of Cardiovascular Disease. <i>Metabolites</i> , 2020, 10, 254.	2.9	21
36	The effect of insulin to decrease neointimal growth after arterial injury is endothelial nitric oxide synthase-dependent. <i>Atherosclerosis</i> , 2015, 241, 111-120.	0.8	20

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37	Mutations in HYAL2, Encoding Hyaluronidase 2, Cause a Syndrome of Orofacial Clefting and Cor Triatriatum Sinister in Humans and Mice. <i>PLoS Genetics</i> , 2017, 13, e1006470.	3.5	20
38	Intrauterine exposure to diabetes and risk of cardiovascular disease in adolescence and early adulthood: a population-based birth cohort study. <i>Cmaj</i> , 2020, 192, E1104-E1113.	2.0	19
39	Choline transporter-like 1 deficiency causes a new type of childhood-onset neurodegeneration. <i>Brain</i> , 2020, 143, 94-111.	7.6	18
40	Recent Experimental Studies of Maternal Obesity, Diabetes during Pregnancy and the Developmental Origins of Cardiovascular Disease. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4467.	4.1	17
41	Adiponectin deficiency induces hepatic steatosis during pregnancy and gestational diabetes in mice. <i>Diabetologia</i> , 2022, 65, 733-747.	6.3	11
42	In utero exposure to gestational diabetes mellitus conditions TLR4 and TLR2 activated IL-1beta responses in spleen cells from rat offspring. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016, 1862, 2137-2146.	3.8	10
43	Tafazzin Deficiency Reduces Basal Insulin Secretion and Mitochondrial Function in Pancreatic Islets From Male Mice. <i>Endocrinology</i> , 2021, 162, .	2.8	10
44	Saskatoon berry powder reduces hepatic steatosis and insulin resistance in high fat-high sucrose diet-induced obese mice. <i>Journal of Nutritional Biochemistry</i> , 2021, 95, 108778.	4.2	10
45	CEBPÎ² regulation of endogenous IGF-1 in adult sensory neurons can be mobilized to overcome diabetes-induced deficits in bioenergetics and axonal outgrowth. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 193.	5.4	10
46	High-dose metformin (420 mg/kg daily p.o.) increases insulin sensitivity but does not affect neointimal thickness in the rat carotid balloon injury model of restenosis. <i>Metabolism: Clinical and Experimental</i> , 2017, 68, 108-118.	3.4	9
47	Pcyt2 deficiency causes age-dependant development of nonalcoholic steatohepatitis and insulin resistance that could be attenuated with phosphonoethylamine. <i>Scientific Reports</i> , 2022, 12, 1048.	3.3	9
48	Hyaluronidase 2 deficiency is a molecular cause of cor triatriatum sinister in mice. <i>International Journal of Cardiology</i> , 2016, 209, 281-283.	1.7	8
49	Hearts lacking plasma membrane K <sub>ATP</sub> channels display changes in basal aerobic metabolic substrate preference and AMPK activity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 313, H469-H478.	3.2	8
50	Supplemental Berberine in a High-Fat Diet Reduces Adiposity and Cardiac Dysfunction in Offspring of Mouse Dams with Gestational Diabetes Mellitus. <i>Journal of Nutrition</i> , 2021, 151, 892-901.	2.9	7
51	Berberine elevates cardiolipin in heart of offspring from mouse dams with high fat diet-induced gestational diabetes mellitus. <i>Scientific Reports</i> , 2021, 11, 15770.	3.3	7
52	Misoprostol treatment prevents hypoxia-induced cardiac dysfunction through a 14-3-3 and PKA regulatory motif on Bnip3. <i>Cell Death and Disease</i> , 2021, 12, 1105.	6.3	7
53	Maternal diabetes promotes offspring lung dysfunction and inflammation in a sex-dependent manner. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2022, 322, L373-L384.	2.9	6
54	More than meets the islet: aligning nutrient and paracrine inputs with hormone secretion in health and disease. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2022, 322, E446-E463.	3.5	6

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55	Cardiac <i>Fgf-16</i> Expression Supports Cardiomyocyte Survival and Increases Resistance to Doxorubicin Cytotoxicity. <i>DNA and Cell Biology</i> , 2018, 37, 866-877.	1.9	5
56	Resveratrol Inhibits Neointimal Growth after Arterial Injury in High-Fat-Fed Rodents: The Roles of SIRT1 and AMPK. <i>Journal of Vascular Research</i> , 2020, 57, 325-340.	1.4	5
57	Maternal glucose in pregnancy is associated with child's adiposity and leptin at 5 years of age. <i>Pediatric Obesity</i> , 2021, 16, e12788.	2.8	5
58	Muscle-specific sirtuin 3 overexpression does not attenuate the pathological effects of high-fat/high-sucrose feeding but does enhance cardiac SERCA2a activity. <i>Physiological Reports</i> , 2021, 9, e14961.	1.7	5
59	Exploring the role of the HNF-1 $\beta$ G319S polymorphism in $\beta$ cell failure and youth-onset type 2 diabetes: Lessons from MODY and Hnf-1 $\beta$ -deficient animal models. <i>Biochemistry and Cell Biology</i> , 2015, 93, 487-494.	2.0	4
60	Phosphokinome Analysis of Barth Syndrome Lymphoblasts Identify Novel Targets in the Pathophysiology of the Disease. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2026.	4.1	3
61	Cardiac structure and function in youth with type 2 diabetes in the iCARE cohort study: Cross-sectional associations with prenatal exposure to diabetes and metabolomic profiles. <i>Pediatric Diabetes</i> , 2020, 21, 233-242.	2.9	3
62	Extracellular Vesicles as an Index for Endothelial Injury and Cardiac Dysfunction in a Rodent Model of GDM. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4970.	4.1	3
63	Sirtuin 3 overexpression preserves maximal sarco(endo)plasmic reticulum calcium ATPase activity in the skeletal muscle of mice subjected to high fat "high sucrose feeding. <i>Canadian Journal of Physiology and Pharmacology</i> , 2022, 100, 361-370.	1.4	2
64	Altered cardiolipin metabolism is associated with cardiac mitochondrial dysfunction in pulmonary vascular remodeled perinatal rat pups. <i>PLoS ONE</i> , 2022, 17, e0263520.	2.5	2
65	Differential expression of <i>HNF1A</i> and <i>HNF1A-AS1</i> in colon cancer cells. <i>IUBMB Life</i> , 2022, 74, 496-507.	3.4	1
66	A carbohydrate restricted "high fat diet reduces blood pressure in spontaneously hypertensive rats without causing insulin resistance. <i>FASEB Journal</i> , 2012, 26, 869.12.	0.5	0