Vincent G Demarco

List of Publications by Year in Descending Order

110 papers	4,788 citations	39 h-index	65 g-index
122 ext. papers	5,522 ext. citations	5.3 avg, IF	5.65 L-index

#	Paper	IF	Citations
110	Inhibition of sphingomyelinase attenuates diet - Induced increases in aortic stiffness.. *Journal of Molecular and Cellular Cardiology*, **2022**, 167, 32-39	5.8	0
109	Sacubitril/valsartan inhibits obesity-associated diastolic dysfunction through suppression of ventricular-vascular stiffness. *Cardiovascular Diabetology*, **2021**, 20, 80	8.7	4
108	The SGLT2 inhibitor Empagliflozin attenuates interleukin-17A-induced human aortic smooth muscle cell proliferation and migration by targeting TRAF3IP2/ROS/NLRP3/Caspase-1-dependent IL-1β and IL-18 secretion. *Cellular Signalling*, **2021**, 77, 109825	4.9	19
107	Endothelial sodium channel activation promotes cardiac stiffness and diastolic dysfunction in Western diet fed female mice. *Metabolism: Clinical and Experimental*, **2020**, 109, 154223	12.7	7
106	Empagliflozin reduces high glucose-induced oxidative stress and miR-21-dependent TRAF3IP2 induction and RECK suppression, and inhibits human renal proximal tubular epithelial cell migration and epithelial-to-mesenchymal transition. *Cellular Signalling*, **2020**, 68, 109506	4.9	32
105	Western diet induces renal artery endothelial stiffening that is dependent on the epithelial Na channel. *American Journal of Physiology - Renal Physiology*, **2020**, 318, F1220-F1228	4.3	9
104	The combination of a neprilysin inhibitor (sacubitril) and angiotensin-II receptor blocker (valsartan) attenuates glomerular and tubular injury in the Zucker Obese rat. *Cardiovascular Diabetology*, **2019**, 18, 40	8.7	22
103	Empagliflozin Ameliorates Type 2 Diabetes-Induced Ultrastructural Remodeling of the Neurovascular Unit and Neuroglia in the Female / Mouse. *Brain Sciences*, **2019**, 9,	3.4	23
102	Prevention of Obesity-Associated Coronary and Cardiac Diastolic Dysfunction by Deletion of Smooth Muscle Cell Mineralocorticoid Receptor in Females. *FASEB Journal*, **2019**, 33, lb508	0.9	
101	TRAF3IP2 mediates high glucose-induced endothelin-1 production as well as endothelin-1-induced inflammation in endothelial cells. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 314, H52-H64	5.2	23
100	Enhanced endothelium epithelial sodium channel signaling prompts left ventricular diastolic dysfunction in obese female mice. *Metabolism: Clinical and Experimental*, **2018**, 78, 69-79	12.7	28
99	Glycemic control by the SGLT2 inhibitor empagliflozin decreases aortic stiffness, renal resistivity index and kidney injury. *Cardiovascular Diabetology*, **2018**, 17, 108	8.7	72
98	The role of dipeptidylpeptidase-4 inhibitors in management of cardiovascular disease in diabetes; focus on linagliptin. *Cardiovascular Diabetology*, **2018**, 17, 59	8.7	20
97	Ultrastructural Remodeling of the Neurovascular Unit in the Female Diabetic db/db Model Part III: Oligodendrocyte and Myelin. *Neuroglia (Basel, Switzerland)*, **2018**, 1, 351-367		6
96	Ultrastructural Remodeling of the Neurovascular Unit in the Female Diabetic db/db Model Part II: Microglia and Mitochondria. *Neuroglia (Basel, Switzerland)*, **2018**, 1, 311-326		11
95	Comparison of Cardiac miRNA Transcriptomes Induced by Diabetes and Rapamycin Treatment and Identification of a Rapamycin-Associated Cardiac MicroRNA Signature. *Oxidative Medicine and Cellular Longevity*, **2018**, 2018, 8364608	6.7	7
94	Ultrastructural Remodeling of the Neurovascular Unit in the Female Diabetic db/db Model Part I: Astrocyte. *Neuroglia (Basel, Switzerland)*, **2018**, 1, 220-244		11

93	Targeting TRAF3IP2 by Genetic and Interventional Approaches Inhibits Ischemia/Reperfusion-induced Myocardial Injury and Adverse Remodeling. *Journal of Biological Chemistry*, **2017**, 292, 2345-2358	5.4	19
92	Sodium glucose transporter 2 (SGLT2) inhibition with empagliflozin improves cardiac diastolic function in a female rodent model of diabetes. *Cardiovascular Diabetology*, **2017**, 16, 9	8.7	134
91	Dipeptidyl Peptidase-4 Inhibition With Saxagliptin Ameliorates Angiotensin II-Induced Cardiac Diastolic Dysfunction in Male Mice. *Endocrinology*, **2017**, 158, 3592-3604	4.8	15
90	Uric acid promotes vascular stiffness, maladaptive inflammatory responses and proteinuria in western diet fed mice. *Metabolism: Clinical and Experimental*, **2017**, 74, 32-40	12.7	36
89	Dipeptidyl peptidase-4 (DPP-4) inhibition with linagliptin reduces western diet-induced myocardial TRAF3IP2 expression, inflammation and fibrosis in female mice. *Cardiovascular Diabetology*, **2017**, 16, 61	8.7	38
88	Daily exercise prevents diastolic dysfunction and oxidative stress in a female mouse model of western diet induced obesity by maintaining cardiac heme oxygenase-1 levels. *Metabolism: Clinical and Experimental*, **2017**, 66, 14-22	12.7	19
87	Cardiovascular disease progression in female Zucker Diabetic Fatty rats occurs via unique mechanisms compared to males. *Scientific Reports*, **2017**, 7, 17823	4.9	21
86	Amiloride Improves Endothelial Function and Reduces Vascular Stiffness in Female Mice Fed a Western Diet. *Frontiers in Physiology*, **2017**, 8, 456	4.6	29
85	Differential Regulation of Cardiac Function and Intracardiac Cytokines by Rapamycin in Healthy and Diabetic Rats. *Oxidative Medicine and Cellular Longevity*, **2017**, 2017, 5724046	6.7	18
84	Endothelial Estrogen Receptor-β Does Not Protect Against Vascular Stiffness Induced by Western Diet in Female Mice. *Endocrinology*, **2016**, 157, 1590-600	4.8	15
83	Dipeptidyl peptidase-4 inhibition with linagliptin prevents western diet-induced vascular abnormalities in female mice. *Cardiovascular Diabetology*, **2016**, 15, 94	8.7	29
82	Insulin resistance and hyperinsulinaemia in diabetic cardiomyopathy. *Nature Reviews Endocrinology*, **2016**, 12, 144-53	15.2	383
81	Endothelial Mineralocorticoid Receptor Mediates Diet-Induced Aortic Stiffness in Females. *Circulation Research*, **2016**, 118, 935-943	15.7	109
80	Regular Exercise Reduces Endothelial Cortical Stiffness in Western Diet-Fed Female Mice. *Hypertension*, **2016**, 68, 1236-1244	8.5	25
79	Mineralocorticoid receptor antagonism treats obesity-associated cardiac diastolic dysfunction. *Hypertension*, **2015**, 65, 1082-8	8.5	70
78	Low-Dose Mineralocorticoid Receptor Blockade Prevents Western Diet-Induced Arterial Stiffening in Female Mice. *Hypertension*, **2015**, 66, 99-107	8.5	107
77	Mineralocorticoid receptor blockade prevents Western diet-induced diastolic dysfunction in female mice. *American Journal of Physiology - Heart and Circulatory Physiology*, **2015**, 308, H1126-35	5.2	52
76	Uric acid promotes left ventricular diastolic dysfunction in mice fed a Western diet. *Hypertension*, **2015**, 65, 531-9	8.5	94

75	Ghrelin: a new incretin enhancer therapy?. *Diabetes*, **2015**, 64, 1500-2	0.9	5
74	Endothelial Mineralocorticoid Receptor Deletion Prevents Diet-Induced Cardiac Diastolic Dysfunction in Females. *Hypertension*, **2015**, 66, 1159-1167	8.5	87
73	Vascular stiffness in insulin resistance and obesity. *Frontiers in Physiology*, **2015**, 6, 231	4.6	64
72	Regional variation in arterial stiffening and dysfunction in Western diet-induced obesity. *American Journal of Physiology - Heart and Circulatory Physiology*, **2015**, 309, H574-82	5.2	41
71	The pathophysiology of hypertension in patients with obesity. *Nature Reviews Endocrinology*, **2014**, 10, 364-76	15.2	268
70	Oxidative stress and obesity: the chicken or the egg?. *Diabetes*, **2014**, 63, 2216-8	0.9	55
69	Pleiotropic effects of the dipeptidylpeptidase-4 inhibitors on the cardiovascular system. *American Journal of Physiology - Heart and Circulatory Physiology*, **2014**, 307, H477-92	5.2	82
68	DPP4 inhibition attenuates filtration barrier injury and oxidant stress in the zucker obese rat. *Obesity*, **2014**, 22, 2172-9	8	56
67	Maladaptive immune and inflammatory pathways lead to cardiovascular insulin resistance. *Metabolism: Clinical and Experimental*, **2013**, 62, 1543-52	12.7	149
66	Salt loading exacerbates diastolic dysfunction and cardiac remodeling in young female Ren2 rats. *Metabolism: Clinical and Experimental*, **2013**, 62, 1761-71	12.7	9
65	Renin inhibition and AT(1)R blockade improve metabolic signaling, oxidant stress and myocardial tissue remodeling. *Metabolism: Clinical and Experimental*, **2013**, 62, 861-72	12.7	20
64	Molecular and metabolic mechanisms of cardiac dysfunction in diabetes. *Life Sciences*, **2013**, 92, 601-8	6.8	128
63	Dipeptidylpeptidase inhibition is associated with improvement in blood pressure and diastolic function in insulin-resistant male Zucker obese rats. *Endocrinology*, **2013**, 154, 2501-13	4.8	79
62	Obesity and insulin resistance induce early development of diastolic dysfunction in young female mice fed a Western diet. *Endocrinology*, **2013**, 154, 3632-42	4.8	81
61	DPP-4 Inhibitors as Therapeutic Modulators of Immune Cell Function and Associated Cardiovascular and Renal Insulin Resistance in Obesity and Diabetes. *CardioRenal Medicine*, **2013**, 3, 48-56	2.8	46
60	The role of tissue Renin-Angiotensin-aldosterone system in the development of endothelial dysfunction and arterial stiffness. *Frontiers in Endocrinology*, **2013**, 4, 161	5.7	123
59	Obesity-related alterations in cardiac lipid profile and nondipping blood pressure pattern during transition to diastolic dysfunction in male db/db mice. *Endocrinology*, **2013**, 154, 159-71	4.8	39
58	The Novel Angiotensin II Receptor Blocker Azilsartan Medoxomil Ameliorates Insulin Resistance Induced by Chronic Angiotensin II Treatment in Rat Skeletal Muscle. *CardioRenal Medicine*, **2013**, 3, 154-164	2.8	14

57	Resveratrol enhances radiation sensitivity in prostate cancer by inhibiting cell proliferation and promoting cell senescence and apoptosis. *Cancer Science*, **2012**, 103, 1090-8	6.9	71
56	Over-nutrition and metabolic cardiomyopathy. *Metabolism: Clinical and Experimental*, **2012**, 61, 1205-10	12.7	56
55	Insulin Resistance and the Autonomic Nervous System **2012**, 307-312		5
54	Overweight female rats selectively breed for low aerobic capacity exhibit increased myocardial fibrosis and diastolic dysfunction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2012**, 302, H1667-82	5.2	23
53	Mineralocorticoid receptor-dependent proximal tubule injury is mediated by a redox-sensitive mTOR/S6K1 pathway. *American Journal of Nephrology*, **2012**, 35, 90-100	4.6	21
52	Regulation of Overnutrition-Induced Cardiac Inflammatory Mechanisms. *CardioRenal Medicine*, **2012**, 2, 225-233	2.8	15
51	Nebivolol attenuates redox-sensitive glomerular and tubular mediated proteinuria in obese rats. *Endocrinology*, **2011**, 152, 659-68	4.8	33
50	Overnutrition and the Cardiorenal Syndrome: Use of a Rodent Model to Examine Mechanisms. *CardioRenal Medicine*, **2011**, 1, 23-30	2.8	15
49	The Impact of Overnutrition on Insulin Metabolic Signaling in the Heart and the Kidney. *CardioRenal Medicine*, **2011**, 1, 102-112	2.8	34
48	Angiotensin II activation of mTOR results in tubulointerstitial fibrosis through loss of N-cadherin. *American Journal of Nephrology*, **2011**, 34, 115-25	4.6	36
47	Prenatal Programming and Epigenetics in the Genesis of the Cardiorenal Syndrome. *CardioRenal Medicine*, **2011**, 1, 243-254	2.8	26
46	Sex differences in baroreflex sensitivity, heart rate variability, and end organ damage in the TGR(mRen2)27 rat. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 301, H1540-50	5.2	25
45	Mineralocorticoid receptor blockade improves diastolic function independent of blood pressure reduction in a transgenic model of RAAS overexpression. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 300, H1484-91	5.2	56
44	Adaptive mechanisms to compensate for overnutrition-induced cardiovascular abnormalities. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2011**, 301, R885-95	3.2	36
43	Comparative analysis of telmisartan and olmesartan on cardiac function in the transgenic (mRen2)27 rat. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 300, H181-90	5.2	17
42	Cytokines in Skeletal Muscle Insulin Resistance **2011**, 369-383		
41	Nebivolol improves diastolic dysfunction and myocardial remodeling through reductions in oxidative stress in the Zucker obese rat. *Hypertension*, **2010**, 55, 880-8	8.5	97
40	Pulmonary hemodynamic response to acute combination and monotherapy with sildenafil and brain natriuretic peptide in rats with monocrotaline-induced pulmonary hypertension. *American Journal of the Medical Sciences*, **2010**, 339, 55-9	2.2	7

39	Cytokine abnormalities in the etiology of the cardiometabolic syndrome. *Current Hypertension Reports*, **2010**, 12, 93-8	4.7	38
38	Contribution of oxidative stress to pulmonary arterial hypertension. *World Journal of Cardiology*, **2010**, 2, 316-24	2.1	76
37	Rosuvastatin ameliorates the development of pulmonary arterial hypertension in the transgenic (mRen2)27 rat. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 297, H1128-39	5.2	22
36	Mineralocorticoid receptor antagonism attenuates vascular apoptosis and injury via rescuing protein kinase B activation. *Hypertension*, **2009**, 53, 158-65	8.5	32
35	Effect of renin inhibition and AT1R blockade on myocardial remodeling in the transgenic Ren2 rat. *American Journal of Physiology - Endocrinology and Metabolism*, **2008**, 295, E103-9	6	50
34	Oxidative stress contributes to pulmonary hypertension in the transgenic (mRen2)27 rat. *American Journal of Physiology - Heart and Circulatory Physiology*, **2008**, 294, H2659-68	5.2	61
33	Attenuation of NADPH oxidase activation and glomerular filtration barrier remodeling with statin treatment. *Hypertension*, **2008**, 51, 474-80	8.5	83
32	Renin inhibition attenuates insulin resistance, oxidative stress, and pancreatic remodeling in the transgenic Ren2 rat. *Endocrinology*, **2008**, 149, 5643-53	4.8	65
31	Insulin resistance, oxidative stress, and podocyte injury: role of rosuvastatin modulation of filtration barrier injury. *American Journal of Nephrology*, **2008**, 28, 67-75	4.6	41
30	TG(mREN2)27 Females Show Differences in the Development of Systemic and Pulmonary Hypertension Compared to Ren2 Males. *FASEB Journal*, **2008**, 22, 758.11	0.9	
29	Renin Inhibition Attenuates Ang II Induced Oxidative Stress and Remodeling in the Pancreas of the Ren2 Rat (tg (mREN2)27). *FASEB Journal*, **2008**, 22, 758.12	0.9	
28	Expression of transgenic FLIP on thyroid epithelial cells inhibits induction and promotes resolution of granulomatous experimental autoimmune thyroiditis in CBA/J mice. *Endocrinology*, **2007**, 148, 5734-45	4.8	14
27	Murine FLIP transgene expressed on thyroid epithelial cells promotes resolution of granulomatous experimental autoimmune thyroiditis in DBA/1 mice. *American Journal of Pathology*, **2007**, 170, 875-87	5.8	33
26	Acute combination therapy with Sildenafil and Brain Natriuretic Peptide attenuates monocrotaline (MCT)-induced pulmonary hypertension (PH) in rats. *FASEB Journal*, **2007**, 21, A1435	0.9	
25	Substitutes for glutamine in proliferation of rat intestinal epithelial cells. *Nutrition*, **2004**, 20, 292-7	4.8	7
24	alpha-lipoic acid inhibits endotoxin-stimulated expression of iNOS and nitric oxide independent of the heat shock response in RAW 264.7 cells. *Free Radical Research*, **2004**, 38, 675-82	4	28
23	Hypothermia induces anti-inflammatory cytokines and inhibits nitric oxide and myeloperoxidase-mediated damage in the hearts of endotoxemic rats. *Chest*, **2004**, 125, 1483-91	5.3	94
22	Hypothermia induces interleukin-10 and attenuates injury in the lungs of endotoxemic rats. *Shock*, **2003**, 20, 41-5	3.4	29

21	Glutamine and barrier function in cultured Caco-2 epithelial cell monolayers. *Journal of Nutrition*, **2003**, 133, 2176-9	4.1	35
20	Glutamine supports recovery from loss of transepithelial resistance and increase of permeability induced by media change in Caco-2 cells. *Journal of Nutritional Biochemistry*, **2003**, 14, 401-8	6.3	38
19	Hypothermia attenuates iNOS, CAT-1, CAT-2, and nitric oxide expression in lungs of endotoxemic rats. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2002**, 283, L1231-8	5.8	33
18	Glutamine supplementation and deprivation: effect on artificially reared rat small intestinal morphology. *Pediatric Research*, **2002**, 52, 430-6	3.2	41
17	Indomethacin, dexamethasone, and intestinal damage in infant rats. *Journal of Pediatric Gastroenterology and Nutrition*, **2002**, 35, 154-61	2.8	8
16	Glutamine: clinical applications and mechanisms of action. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2002**, 5, 69-75	3.8	69
15	Inhibition of glutamine synthetase decreases proliferation of cultured rat intestinal epithelial cells. *Journal of Nutrition*, **1999**, 129, 57-62	4.1	50
14	Glutamine supplementation in low-birth-weight infants: mechanisms of action. *Journal of Parenteral and Enteral Nutrition*, **1999**, 23, S49-51	4.2	10
13	Glutamine synthetase: a key enzyme for intestinal epithelial differentiation?. *Journal of Parenteral and Enteral Nutrition*, **1999**, 23, 140-6	4.2	32
12	Oxygen Uptake, Critical Oxygen Tension, and Available Oxygen for Three Species of Cave Crayfishes. *Journal of Crustacean Biology*, **1999**, 19, 235	0.8	11
11	Nitric Oxide Inhalation. *Chest*, **1994**, 105, 91S-92S	5.3	7
10	Estimating Egg Retention Times in Sceloporine Lizards. *Journal of Herpetology*, **1993**, 27, 453	1.1	27
9	Metabolic Rates of Female Viviparous Lizards (Sceloporus jarrovi) throughout the Reproductive Cycle: Do Pregnant Lizards Adhere to Standard Allometry?. *Physiological Zoology*, **1993**, 66, 166-180		28
8	Oviductal morphology and eggshell formation in the lizard, Sceloporus woodi. *Journal of Morphology*, **1993**, 217, 205-217	1.6	46
7	Effects of arachidonic acid, prostaglandin F2 alpha, prostaglandin E2, and arginine vasotocin on induction of birth in vivo and in vitro in a viviparous lizard (Sceloporus jarrovi). *General and Comparative Endocrinology*, **1992**, 85, 477-85	3	17
6	Physiological cost of pregnancy in a viviparous lizard (Sceloporus jarrovi). *The Journal of Experimental Zoology*, **1992**, 262, 383-390		42
5	Exogenous progesterone or indomethacin delays parturition in the viviparous lizard Sceloporus jarrovi. *General and Comparative Endocrinology*, **1991**, 81, 105-12	3	33
4	Eggshell structure and formation in eggs of oviparous reptiles **1991**, 53-70		62

3	Annual variation in the seasonal shift in egg size and clutch size in Sceloporus woodi. *Oecologia*, **1989**, 80, 525-532	2.9	31
2	Maximum Prey Size of an Insectivorous Lizard, Sceloporus undulatus garmani. *Copeia*, **1985**, 1985, 1077	1.1	23
1	Glutamine Supplementation and Deprivation: Effect on Artificially Reared Rat Small Intestinal Morphology		3