

# Vincent G Demarco

## List of Publications by Citations

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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	Insulin resistance and hyperinsulinaemia in diabetic cardiomyopathy. <i>Nature Reviews Endocrinology</i> , <b>2016</b> , 12, 144-53	15.2	383
109	The pathophysiology of hypertension in patients with obesity. <i>Nature Reviews Endocrinology</i> , <b>2014</b> , 10, 364-76	15.2	268
108	Maladaptive immune and inflammatory pathways lead to cardiovascular insulin resistance. <i>Metabolism: Clinical and Experimental</i> , <b>2013</b> , 62, 1543-52	12.7	149
107	Sodium glucose transporter 2 (SGLT2) inhibition with empagliflozin improves cardiac diastolic function in a female rodent model of diabetes. <i>Cardiovascular Diabetology</i> , <b>2017</b> , 16, 9	8.7	134
106	Molecular and metabolic mechanisms of cardiac dysfunction in diabetes. <i>Life Sciences</i> , <b>2013</b> , 92, 601-8	6.8	128
105	The role of tissue Renin-Angiotensin-aldosterone system in the development of endothelial dysfunction and arterial stiffness. <i>Frontiers in Endocrinology</i> , <b>2013</b> , 4, 161	5.7	123
104	Endothelial Mineralocorticoid Receptor Mediates Diet-Induced Aortic Stiffness in Females. <i>Circulation Research</i> , <b>2016</b> , 118, 935-943	15.7	109
103	Low-Dose Mineralocorticoid Receptor Blockade Prevents Western Diet-Induced Arterial Stiffening in Female Mice. <i>Hypertension</i> , <b>2015</b> , 66, 99-107	8.5	107
102	Nebivolol improves diastolic dysfunction and myocardial remodeling through reductions in oxidative stress in the Zucker obese rat. <i>Hypertension</i> , <b>2010</b> , 55, 880-8	8.5	97
101	Uric acid promotes left ventricular diastolic dysfunction in mice fed a Western diet. <i>Hypertension</i> , <b>2015</b> , 65, 531-9	8.5	94
100	Hypothermia induces anti-inflammatory cytokines and inhibits nitric oxide and myeloperoxidase-mediated damage in the hearts of endotoxemic rats. <i>Chest</i> , <b>2004</b> , 125, 1483-91	5.3	94
99	Endothelial Mineralocorticoid Receptor Deletion Prevents Diet-Induced Cardiac Diastolic Dysfunction in Females. <i>Hypertension</i> , <b>2015</b> , 66, 1159-1167	8.5	87
98	Attenuation of NADPH oxidase activation and glomerular filtration barrier remodeling with statin treatment. <i>Hypertension</i> , <b>2008</b> , 51, 474-80	8.5	83
97	Pleiotropic effects of the dipeptidylpeptidase-4 inhibitors on the cardiovascular system. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2014</b> , 307, H477-92	5.2	82
96	Obesity and insulin resistance induce early development of diastolic dysfunction in young female mice fed a Western diet. <i>Endocrinology</i> , <b>2013</b> , 154, 3632-42	4.8	81
95	Dipeptidylpeptidase inhibition is associated with improvement in blood pressure and diastolic function in insulin-resistant male Zucker obese rats. <i>Endocrinology</i> , <b>2013</b> , 154, 2501-13	4.8	79
94	Contribution of oxidative stress to pulmonary arterial hypertension. <i>World Journal of Cardiology</i> , <b>2010</b> , 2, 316-24	2.1	76

93	Glycemic control by the SGLT2 inhibitor empagliflozin decreases aortic stiffness, renal resistivity index and kidney injury. <i>Cardiovascular Diabetology</i> , <b>2018</b> , 17, 108	8.7	72
92	Resveratrol enhances radiation sensitivity in prostate cancer by inhibiting cell proliferation and promoting cell senescence and apoptosis. <i>Cancer Science</i> , <b>2012</b> , 103, 1090-8	6.9	71
91	Mineralocorticoid receptor antagonism treats obesity-associated cardiac diastolic dysfunction. <i>Hypertension</i> , <b>2015</b> , 65, 1082-8	8.5	70
90	Glutamine: clinical applications and mechanisms of action. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2002</b> , 5, 69-75	3.8	69
89	Renin inhibition attenuates insulin resistance, oxidative stress, and pancreatic remodeling in the transgenic Ren2 rat. <i>Endocrinology</i> , <b>2008</b> , 149, 5643-53	4.8	65
88	Vascular stiffness in insulin resistance and obesity. <i>Frontiers in Physiology</i> , <b>2015</b> , 6, 231	4.6	64
87	Eggshell structure and formation in eggs of oviparous reptiles <b>1991</b> , 53-70		62
86	Oxidative stress contributes to pulmonary hypertension in the transgenic (mRen2) <sup>27</sup> rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2008</b> , 294, H2659-68	5.2	61
85	DPP4 inhibition attenuates filtration barrier injury and oxidant stress in the zucker obese rat. <i>Obesity</i> , <b>2014</b> , 22, 2172-9	8	56
84	Over-nutrition and metabolic cardiomyopathy. <i>Metabolism: Clinical and Experimental</i> , <b>2012</b> , 61, 1205-10	12.7	56
83	Mineralocorticoid receptor blockade improves diastolic function independent of blood pressure reduction in a transgenic model of RAAS overexpression. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2011</b> , 300, H1484-91	5.2	56
82	Oxidative stress and obesity: the chicken or the egg?. <i>Diabetes</i> , <b>2014</b> , 63, 2216-8	0.9	55
81	Mineralocorticoid receptor blockade prevents Western diet-induced diastolic dysfunction in female mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2015</b> , 308, H1126-35	5.2	52
80	Effect of renin inhibition and AT1R blockade on myocardial remodeling in the transgenic Ren2 rat. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2008</b> , 295, E103-9	6	50
79	Inhibition of glutamine synthetase decreases proliferation of cultured rat intestinal epithelial cells. <i>Journal of Nutrition</i> , <b>1999</b> , 129, 57-62	4.1	50
78	DPP-4 Inhibitors as Therapeutic Modulators of Immune Cell Function and Associated Cardiovascular and Renal Insulin Resistance in Obesity and Diabetes. <i>CardioRenal Medicine</i> , <b>2013</b> , 3, 48-56	2.8	46
77	Oviductal morphology and eggshell formation in the lizard, <i>Sceloporus woodi</i> . <i>Journal of Morphology</i> , <b>1993</b> , 217, 205-217	1.6	46
76	Physiological cost of pregnancy in a viviparous lizard ( <i>Sceloporus jarrovi</i> ). <i>The Journal of Experimental Zoology</i> , <b>1992</b> , 262, 383-390		42

75	Regional variation in arterial stiffening and dysfunction in Western diet-induced obesity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2015</b> , 309, H574-82	5.2	41
74	Insulin resistance, oxidative stress, and podocyte injury: role of rosuvastatin modulation of filtration barrier injury. <i>American Journal of Nephrology</i> , <b>2008</b> , 28, 67-75	4.6	41
73	Glutamine supplementation and deprivation: effect on artificially reared rat small intestinal morphology. <i>Pediatric Research</i> , <b>2002</b> , 52, 430-6	3.2	41
72	Obesity-related alterations in cardiac lipid profile and nondipping blood pressure pattern during transition to diastolic dysfunction in male db/db mice. <i>Endocrinology</i> , <b>2013</b> , 154, 159-71	4.8	39
71	Dipeptidyl peptidase-4 (DPP-4) inhibition with linagliptin reduces western diet-induced myocardial TRAF3IP2 expression, inflammation and fibrosis in female mice. <i>Cardiovascular Diabetology</i> , <b>2017</b> , 16, 61	8.7	38
70	Cytokine abnormalities in the etiology of the cardiometabolic syndrome. <i>Current Hypertension Reports</i> , <b>2010</b> , 12, 93-8	4.7	38
69	Glutamine supports recovery from loss of transepithelial resistance and increase of permeability induced by media change in Caco-2 cells. <i>Journal of Nutritional Biochemistry</i> , <b>2003</b> , 14, 401-8	6.3	38
68	Uric acid promotes vascular stiffness, maladaptive inflammatory responses and proteinuria in western diet fed mice. <i>Metabolism: Clinical and Experimental</i> , <b>2017</b> , 74, 32-40	12.7	36
67	Angiotensin II activation of mTOR results in tubulointerstitial fibrosis through loss of N-cadherin. <i>American Journal of Nephrology</i> , <b>2011</b> , 34, 115-25	4.6	36
66	Adaptive mechanisms to compensate for overnutrition-induced cardiovascular abnormalities. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2011</b> , 301, R885-95	3.2	36
65	Glutamine and barrier function in cultured Caco-2 epithelial cell monolayers. <i>Journal of Nutrition</i> , <b>2003</b> , 133, 2176-9	4.1	35
64	The Impact of Overnutrition on Insulin Metabolic Signaling in the Heart and the Kidney. <i>CardioRenal Medicine</i> , <b>2011</b> , 1, 102-112	2.8	34
63	Nebivolol attenuates redox-sensitive glomerular and tubular mediated proteinuria in obese rats. <i>Endocrinology</i> , <b>2011</b> , 152, 659-68	4.8	33
62	Murine FLIP transgene expressed on thyroid epithelial cells promotes resolution of granulomatous experimental autoimmune thyroiditis in DBA/1 mice. <i>American Journal of Pathology</i> , <b>2007</b> , 170, 875-87	5.8	33
61	Hypothermia attenuates iNOS, CAT-1, CAT-2, and nitric oxide expression in lungs of endotoxemic rats. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2002</b> , 283, L1231-8	5.8	33
60	Exogenous progesterone or indomethacin delays parturition in the viviparous lizard <i>Sceloporus jarrovi</i> . <i>General and Comparative Endocrinology</i> , <b>1991</b> , 81, 105-12	3	33
59	Mineralocorticoid receptor antagonism attenuates vascular apoptosis and injury via rescuing protein kinase B activation. <i>Hypertension</i> , <b>2009</b> , 53, 158-65	8.5	32
58	Glutamine synthetase: a key enzyme for intestinal epithelial differentiation?. <i>Journal of Parenteral and Enteral Nutrition</i> , <b>1999</b> , 23, 140-6	4.2	32

57	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. <i>Cellular Signalling</i> , <b>2020</b> , 68, 109506	4.9	32
56	Annual variation in the seasonal shift in egg size and clutch size in <i>Sceloporus woodi</i> . <i>Oecologia</i> , <b>1989</b> , 80, 525-532	2.9	31
55	Dipeptidyl peptidase-4 inhibition with linagliptin prevents western diet-induced vascular abnormalities in female mice. <i>Cardiovascular Diabetology</i> , <b>2016</b> , 15, 94	8.7	29
54	Amiloride Improves Endothelial Function and Reduces Vascular Stiffness in Female Mice Fed a Western Diet. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 456	4.6	29
53	Hypothermia induces interleukin-10 and attenuates injury in the lungs of endotoxemic rats. <i>Shock</i> , <b>2003</b> , 20, 41-5	3.4	29
52	Enhanced endothelium epithelial sodium channel signaling prompts left ventricular diastolic dysfunction in obese female mice. <i>Metabolism: Clinical and Experimental</i> , <b>2018</b> , 78, 69-79	12.7	28
51	alpha-lipoic acid inhibits endotoxin-stimulated expression of iNOS and nitric oxide independent of the heat shock response in RAW 264.7 cells. <i>Free Radical Research</i> , <b>2004</b> , 38, 675-82	4	28
50	Metabolic Rates of Female Viviparous Lizards ( <i>Sceloporus jarrovi</i> ) throughout the Reproductive Cycle: Do Pregnant Lizards Adhere to Standard Allometry?. <i>Physiological Zoology</i> , <b>1993</b> , 66, 166-180		28
49	Estimating Egg Retention Times in Sceloporine Lizards. <i>Journal of Herpetology</i> , <b>1993</b> , 27, 453	1.1	27
48	Prenatal Programming and Epigenetics in the Genesis of the Cardiorenal Syndrome. <i>CardioRenal Medicine</i> , <b>2011</b> , 1, 243-254	2.8	26
47	Sex differences in baroreflex sensitivity, heart rate variability, and end organ damage in the TGR(mRen2)27 rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2011</b> , 301, H1540-50 <sup>2</sup>	5.2	25
46	Regular Exercise Reduces Endothelial Cortical Stiffness in Western Diet-Fed Female Mice. <i>Hypertension</i> , <b>2016</b> , 68, 1236-1244	8.5	25
45	Empagliflozin Ameliorates Type 2 Diabetes-Induced Ultrastructural Remodeling of the Neurovascular Unit and Neuroglia in the Female / Mouse. <i>Brain Sciences</i> , <b>2019</b> , 9,	3.4	23
44	TRAF3IP2 mediates high glucose-induced endothelin-1 production as well as endothelin-1-induced inflammation in endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2018</b> , 314, H52-H64	5.2	23
43	Overweight female rats selectively breed for low aerobic capacity exhibit increased myocardial fibrosis and diastolic dysfunction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2012</b> , 302, H1667-82	5.2	23
42	Maximum Prey Size of an Insectivorous Lizard, <i>Sceloporus undulatus garmani</i> . <i>Copeia</i> , <b>1985</b> , 1985, 1077	1.1	23
41	The combination of a neprilysin inhibitor (sacubitril) and angiotensin-II receptor blocker (valsartan) attenuates glomerular and tubular injury in the Zucker Obese rat. <i>Cardiovascular Diabetology</i> , <b>2019</b> , 18, 40	8.7	22
40	Rosuvastatin ameliorates the development of pulmonary arterial hypertension in the transgenic (mRen2)27 rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2009</b> , 297, H1128-39	5.2	22

39	Cardiovascular disease progression in female Zucker Diabetic Fatty rats occurs via unique mechanisms compared to males. <i>Scientific Reports</i> , <b>2017</b> , 7, 17823	4.9	21
38	Mineralocorticoid receptor-dependent proximal tubule injury is mediated by a redox-sensitive mTOR/S6K1 pathway. <i>American Journal of Nephrology</i> , <b>2012</b> , 35, 90-100	4.6	21
37	The role of dipeptidylpeptidase-4 inhibitors in management of cardiovascular disease in diabetes; focus on linagliptin. <i>Cardiovascular Diabetology</i> , <b>2018</b> , 17, 59	8.7	20
36	Renin inhibition and AT(1)R blockade improve metabolic signaling, oxidant stress and myocardial tissue remodeling. <i>Metabolism: Clinical and Experimental</i> , <b>2013</b> , 62, 861-72	12.7	20
35	Targeting TRAF3IP2 by Genetic and Interventional Approaches Inhibits Ischemia/Reperfusion-induced Myocardial Injury and Adverse Remodeling. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 2345-2358	5.4	19
34	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. <i>Metabolism: Clinical and Experimental</i> , <b>2017</b> , 66, 14-22	12.7	19
33	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-1 $\beta$ and IL-18 secretion. <i>Cellular Signalling</i> , <b>2021</b> , 77, 109825	4.9	19
32	Differential Regulation of Cardiac Function and Intracardiac Cytokines by Rapamycin in Healthy and Diabetic Rats. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2017</b> , 2017, 5724046	6.7	18
31	Comparative analysis of telmisartan and olmesartan on cardiac function in the transgenic (mRen2)27 rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2011</b> , 300, H181-90	5.2	17
30	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 ( <i>Sceloporus jarrovi</i> ). <i>General and Comparative Endocrinology</i> , <b>1992</b> , 85, 477-85	3	17
29	Endothelial Estrogen Receptor- $\beta$ Does Not Protect Against Vascular Stiffness Induced by Western Diet in Female Mice. <i>Endocrinology</i> , <b>2016</b> , 157, 1590-600	4.8	15
28	Dipeptidyl Peptidase-4 Inhibition With Saxagliptin Ameliorates Angiotensin II-Induced Cardiac Diastolic Dysfunction in Male Mice. <i>Endocrinology</i> , <b>2017</b> , 158, 3592-3604	4.8	15
27	Overnutrition and the Cardiorenal Syndrome: Use of a Rodent Model to Examine Mechanisms. <i>CardioRenal Medicine</i> , <b>2011</b> , 1, 23-30	2.8	15
26	Regulation of Overnutrition-Induced Cardiac Inflammatory Mechanisms. <i>CardioRenal Medicine</i> , <b>2012</b> , 2, 225-233	2.8	15
25	The Novel Angiotensin II Receptor Blocker Azilsartan Medoxomil Ameliorates Insulin Resistance Induced by Chronic Angiotensin II Treatment in Rat Skeletal Muscle. <i>CardioRenal Medicine</i> , <b>2013</b> , 3, 154-164	2.8	14
24	Expression of transgenic FLIP on thyroid epithelial cells inhibits induction and promotes resolution of granulomatous experimental autoimmune thyroiditis in CBA/J mice. <i>Endocrinology</i> , <b>2007</b> , 148, 5734-45	4.8	14
23	Oxygen Uptake, Critical Oxygen Tension, and Available Oxygen for Three Species of Cave Crayfishes. <i>Journal of Crustacean Biology</i> , <b>1999</b> , 19, 235	0.8	11
22	Ultrastructural Remodeling of the Neurovascular Unit in the Female Diabetic db/db Model Part II: Microglia and Mitochondria. <i>Neuroglia (Basel, Switzerland)</i> , <b>2018</b> , 1, 311-326		11

21	Ultrastructural Remodeling of the Neurovascular Unit in the Female Diabetic db/db Model Part I: Astrocyte. <i>Neuroglia (Basel, Switzerland)</i> , <b>2018</b> , 1, 220-244		11
20	Glutamine supplementation in low-birth-weight infants: mechanisms of action. <i>Journal of Parenteral and Enteral Nutrition</i> , <b>1999</b> , 23, S49-51	4.2	10
19	Salt loading exacerbates diastolic dysfunction and cardiac remodeling in young female Ren2 rats. <i>Metabolism: Clinical and Experimental</i> , <b>2013</b> , 62, 1761-71	12.7	9
18	Western diet induces renal artery endothelial stiffening that is dependent on the epithelial Na channel. <i>American Journal of Physiology - Renal Physiology</i> , <b>2020</b> , 318, F1220-F1228	4.3	9
17	Indomethacin, dexamethasone, and intestinal damage in infant rats. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , <b>2002</b> , 35, 154-61	2.8	8
16	Endothelial sodium channel activation promotes cardiac stiffness and diastolic dysfunction in Western diet fed female mice. <i>Metabolism: Clinical and Experimental</i> , <b>2020</b> , 109, 154223	12.7	7
15	Pulmonary hemodynamic response to acute combination and monotherapy with sildenafil and brain natriuretic peptide in rats with monocrotaline-induced pulmonary hypertension. <i>American Journal of the Medical Sciences</i> , <b>2010</b> , 339, 55-9	2.2	7
14	Substitutes for glutamine in proliferation of rat intestinal epithelial cells. <i>Nutrition</i> , <b>2004</b> , 20, 292-7	4.8	7
13	Nitric Oxide Inhalation. <i>Chest</i> , <b>1994</b> , 105, 91S-92S	5.3	7
12	Comparison of Cardiac miRNA Transcriptomes Induced by Diabetes and Rapamycin Treatment and Identification of a Rapamycin-Associated Cardiac MicroRNA Signature. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2018</b> , 2018, 8364608	6.7	7
11	Ultrastructural Remodeling of the Neurovascular Unit in the Female Diabetic db/db Model Part III: Oligodendrocyte and Myelin. <i>Neuroglia (Basel, Switzerland)</i> , <b>2018</b> , 1, 351-367		6
10	Ghrelin: a new incretin enhancer therapy?. <i>Diabetes</i> , <b>2015</b> , 64, 1500-2	0.9	5
9	Insulin Resistance and the Autonomic Nervous System <b>2012</b> , 307-312		5
8	Sacubitril/valsartan inhibits obesity-associated diastolic dysfunction through suppression of ventricular-vascular stiffness. <i>Cardiovascular Diabetology</i> , <b>2021</b> , 20, 80	8.7	4
7	Glutamine Supplementation and Deprivation: Effect on Artificially Reared Rat Small Intestinal Morphology		3
6	Inhibition of sphingomyelinase attenuates diet - Induced increases in aortic stiffness.. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2022</b> , 167, 32-39	5.8	0
5	Acute combination therapy with Sildenafil and Brain Natriuretic Peptide attenuates monocrotaline (MCT)-induced pulmonary hypertension (PH) in rats. <i>FASEB Journal</i> , <b>2007</b> , 21, A1435	0.9	
4	TG(mREN2)27 Females Show Differences in the Development of Systemic and Pulmonary Hypertension Compared to Ren2 Males. <i>FASEB Journal</i> , <b>2008</b> , 22, 758.11	0.9	

- 3 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
- 2 Prevention of Obesity-Associated Coronary and Cardiac Diastolic Dysfunction by Deletion of Smooth Muscle Cell Mineralocorticoid Receptor in Females. *FASEB Journal*, **2019**, 33, 1b508 0.9
- 1 Cytokines in Skeletal Muscle Insulin Resistance **2011**, 369-383