

Vincent G Demarco

List of Publications by Year in descending order

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Version: 2024-02-01

113
papers

6,174
citations

57631

44
h-index

79541

73
g-index

122
all docs

122
docs citations

122
times ranked

8250
citing authors

#	ARTICLE	IF	CITATIONS
1	Insulin resistance and hyperinsulinaemia in diabetic cardiomyopathy. <i>Nature Reviews Endocrinology</i> , 2016, 12, 144-153.	4.3	597
2	The pathophysiology of hypertension in patients with obesity. <i>Nature Reviews Endocrinology</i> , 2014, 10, 364-376.	4.3	376
3	Sodium glucose transporter 2 (SGLT2) inhibition with empagliflozin improves cardiac diastolic function in a female rodent model of diabetes. <i>Cardiovascular Diabetology</i> , 2017, 16, 9.	2.7	205
4	Maladaptive immune and inflammatory pathways lead to cardiovascular insulin resistance. <i>Metabolism: Clinical and Experimental</i> , 2013, 62, 1543-1552.	1.5	182
5	Molecular and metabolic mechanisms of cardiac dysfunction in diabetes. <i>Life Sciences</i> , 2013, 92, 601-608.	2.0	157
6	The Role of Tissue Renin-Angiotensin-Aldosterone System in the Development of Endothelial Dysfunction and Arterial Stiffness. <i>Frontiers in Endocrinology</i> , 2013, 4, 161.	1.5	146
7	Endothelial Mineralocorticoid Receptor Mediates Diet-Induced Aortic Stiffness in Females. <i>Circulation Research</i> , 2016, 118, 935-943.	2.0	142
8	Low-Dose Mineralocorticoid Receptor Blockade Prevents Western Diet-Induced Arterial Stiffening in Female Mice. <i>Hypertension</i> , 2015, 66, 99-107.	1.3	125
9	Uric Acid Promotes Left Ventricular Diastolic Dysfunction in Mice Fed a Western Diet. <i>Hypertension</i> , 2015, 65, 531-539.	1.3	114
10	Hypothermia Induces Anti-Inflammatory Cytokines and Inhibits Nitric Oxide and Myeloperoxidase-Mediated Damage in the Hearts of Endotoxemic Rats. <i>Chest</i> , 2004, 125, 1483-1491.	0.4	113
11	Glycemic control by the SGLT2 inhibitor empagliflozin decreases aortic stiffness, renal resistivity index and kidney injury. <i>Cardiovascular Diabetology</i> , 2018, 17, 108.	2.7	112
12	Endothelial Mineralocorticoid Receptor Deletion Prevents Diet-Induced Cardiac Diastolic Dysfunction in Females. <i>Hypertension</i> , 2015, 66, 1159-1167.	1.3	111
13	Eggshell structure and formation in eggs of oviparous reptiles. , 1991, , 53-70.		109
14	Nebivolol Improves Diastolic Dysfunction and Myocardial Remodeling Through Reductions in Oxidative Stress in the Zucker Obese Rat. <i>Hypertension</i> , 2010, 55, 880-888.	1.3	102
15	Vascular stiffness in insulin resistance and obesity. <i>Frontiers in Physiology</i> , 2015, 6, 231.	1.3	100
16	Obesity and Insulin Resistance Induce Early Development of Diastolic Dysfunction in Young Female Mice Fed a Western Diet. <i>Endocrinology</i> , 2013, 154, 3632-3642.	1.4	99
17	Pleiotropic effects of the dipeptidylpeptidase-4 inhibitors on the cardiovascular system. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H477-H492.	1.5	92
18	Resveratrol enhances radiation sensitivity in prostate cancer by inhibiting cell proliferation and promoting cell senescence and apoptosis. <i>Cancer Science</i> , 2012, 103, 1090-1098.	1.7	91

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19	Attenuation of NADPH Oxidase Activation and Glomerular Filtration Barrier Remodeling With Statin Treatment. <i>Hypertension</i> , 2008, 51, 474-480.	1.3	90
20	Contribution of oxidative stress to pulmonary arterial hypertension. <i>World Journal of Cardiology</i> , 2010, 2, 316.	0.5	87
21	Dipeptidylpeptidase Inhibition Is Associated with Improvement in Blood Pressure and Diastolic Function in Insulin-Resistant Male Zucker Obese Rats. <i>Endocrinology</i> , 2013, 154, 2501-2513.	1.4	86
22	Mineralocorticoid Receptor Antagonism Treats Obesity-Associated Cardiac Diastolic Dysfunction. <i>Hypertension</i> , 2015, 65, 1082-1088.	1.3	84
23	Glutamine: clinical applications and mechanisms of action. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2002, 5, 69-75.	1.3	83
24	Oxidative stress contributes to pulmonary hypertension in the transgenic (mRen2) ²⁷ rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 294, H2659-H2668.	1.5	69
25	Renin Inhibition Attenuates Insulin Resistance, Oxidative Stress, and Pancreatic Remodeling in the Transgenic Ren2 Rat. <i>Endocrinology</i> , 2008, 149, 5643-5653.	1.4	69
26	Oxidative Stress and Obesity: The Chicken or the Egg?. <i>Diabetes</i> , 2014, 63, 2216-2218.	0.3	68
27	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> , 2020, 68, 109506.	1.7	68
28	Over-nutrition and metabolic cardiomyopathy. <i>Metabolism: Clinical and Experimental</i> , 2012, 61, 1205-1210.	1.5	64
29	Mineralocorticoid receptor blockade prevents Western diet-induced diastolic dysfunction in female mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 308, H1126-H1135.	1.5	64
30	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> , 2011, 300, H1484-H1491.	1.5	62
31	DPP4 inhibition attenuates filtration barrier injury and oxidant stress in the zucker obese rat. <i>Obesity</i> , 2014, 22, 2172-2179.	1.5	62
32	Oviductal morphology and eggshell formation in the lizard, <i>Sceloporus woodi</i> . <i>Journal of Morphology</i> , 1993, 217, 205-217.	0.6	59
33	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> , 2017, 16, 61.	2.7	58
34	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 β and IL-18 secretion. <i>Cellular Signalling</i> , 2021, 77, 109825.	1.7	54
35	Inhibition of Glutamine Synthetase Decreases Proliferation of Cultured Rat Intestinal Epithelial Cells. <i>Journal of Nutrition</i> , 1999, 129, 57-62.	1.3	53
36	Empagliflozin Ameliorates Type 2 Diabetes-Induced Ultrastructural Remodeling of the Neurovascular Unit and Neuroglia in the Female db/db Mouse. <i>Brain Sciences</i> , 2019, 9, 57.	1.1	53

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37	Regional variation in arterial stiffening and dysfunction in Western diet-induced obesity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H574-H582.	1.5	51
38	Effect of renin inhibition and AT ₁ R blockade on myocardial remodeling in the transgenic Ren2 rat. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008, 295, E103-E109.	1.8	50
39	Physiological cost of pregnancy in a viviparous lizard (<i>Sceloporus jarrovi</i>). <i>The Journal of Experimental Zoology</i> , 1992, 262, 383-390.	1.4	49
40	Uric acid promotes vascular stiffness, maladaptive inflammatory responses and proteinuria in western diet fed mice. <i>Metabolism: Clinical and Experimental</i> , 2017, 74, 32-40.	1.5	49
41	Glutamine Supplementation and Deprivation: Effect on Artificially Reared Rat Small Intestinal Morphology. <i>Pediatric Research</i> , 2002, 52, 430-436.	1.1	48
42	Cytokine Abnormalities in the Etiology of the Cardiometabolic Syndrome. <i>Current Hypertension Reports</i> , 2010, 12, 93-98.	1.5	48
43	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> , 2013, 3, 48-56.	0.7	48
44	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> , 2013, 154, 159-171.	1.4	46
45	Research Communication: Glutamine and Barrier Function in Cultured Caco-2 Epithelial Cell Monolayers. <i>Journal of Nutrition</i> , 2003, 133, 2176-2179.	1.3	45
46	Insulin Resistance, Oxidative Stress, and Podocyte Injury: Role of Rosuvastatin Modulation of Filtration Barrier Injury. <i>American Journal of Nephrology</i> , 2008, 28, 67-75.	1.4	45
47	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> , 2019, 18, 40.	2.7	45
48	Mineralocorticoid Receptor Antagonism Attenuates Vascular Apoptosis and Injury via Rescuing Protein Kinase B Activation. <i>Hypertension</i> , 2009, 53, 158-165.	1.3	42
49	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> , 2003, 14, 401-408.	1.9	40
50	Nebivolol Attenuates Redox-Sensitive Glomerular and Tubular Mediated Proteinuria in Obese Rats. <i>Endocrinology</i> , 2011, 152, 659-668.	1.4	40
51	Angiotensin II Activation of mTOR Results in Tubulointerstitial Fibrosis through Loss of N-Cadherin. <i>American Journal of Nephrology</i> , 2011, 34, 115-125.	1.4	40
52	Adaptive mechanisms to compensate for overnutrition-induced cardiovascular abnormalities. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R885-R895.	0.9	40
53	The Impact of Overnutrition on Insulin Metabolic Signaling in the Heart and the Kidney. <i>CardioRenal Medicine</i> , 2011, 1, 102-112.	0.7	39
54	Annual variation in the seasonal shift in egg size and clutch size in <i>Sceloporus woodi</i> . <i>Oecologia</i> , 1989, 80, 525-532.	0.9	38

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55	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> , 2007, 170, 875-887.	1.9	37
56	Amiloride Improves Endothelial Function and Reduces Vascular Stiffness in Female Mice Fed a Western Diet. <i>Frontiers in Physiology</i> , 2017, 8, 456.	1.3	37
57	Exogenous progesterone or indomethacin delays parturition in the viviparous lizard <i>Sceloporus jarrovi</i> . <i>General and Comparative Endocrinology</i> , 1991, 81, 105-112.	0.8	36
58	Glutamine Synthetase: A Key Enzyme for Intestinal Epithelial Differentiation?. <i>Journal of Parenteral and Enteral Nutrition</i> , 1999, 23, 140-146.	1.3	36
59	Dipeptidyl peptidase-4 inhibition with linagliptin prevents western diet-induced vascular abnormalities in female mice. <i>Cardiovascular Diabetology</i> , 2016, 15, 94.	2.7	36
60	Cardiovascular disease progression in female Zucker Diabetic Fatty rats occurs via unique mechanisms compared to males. <i>Scientific Reports</i> , 2017, 7, 17823.	1.6	36
61	Enhanced endothelium epithelial sodium channel signaling prompts left ventricular diastolic dysfunction in obese female mice. <i>Metabolism: Clinical and Experimental</i> , 2018, 78, 69-79.	1.5	35
62	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> , 1993, 66, 166-180.	1.5	34
63	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> , 2002, 283, L1231-L1238.	1.3	34
64	Targeting TRAF3IP2 by Genetic and Interventional Approaches Inhibits Ischemia/Reperfusion-induced Myocardial Injury and Adverse Remodeling. <i>Journal of Biological Chemistry</i> , 2017, 292, 2345-2358.	1.6	34
65	Estimating Egg Retention Times in Sceloporine Lizards. <i>Journal of Herpetology</i> , 1993, 27, 453.	0.2	33
66	Maximum Prey Size of an Insectivorous Lizard, <i>Sceloporus undulatus garmani</i> . <i>Copeia</i> , 1985, 1985, 1077.	1.4	32
67	HYPOTHERMIA INDUCES INTERLEUKIN-10 AND ATTENUATES INJURY IN THE LUNGS OF ENDOTOXEMIC RATS. <i>Shock</i> , 2003, 20, 41-45.	1.0	32
68	Î±-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> , 2004, 38, 675-682.	1.5	32
69	Regular Exercise Reduces Endothelial Cortical Stiffness in Western Diet-Fed Female Mice. <i>Hypertension</i> , 2016, 68, 1236-1244.	1.3	32
70	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> , 2017, 66, 14-22.	1.5	32
71	Mineralocorticoid Receptor-Dependent Proximal Tubule Injury Is Mediated by a Redox-Sensitive mTOR/S6K1 Pathway. <i>American Journal of Nephrology</i> , 2012, 35, 90-100.	1.4	31
72	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> , 2018, 314, H52-H64.	1.5	29

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73	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> , 2011, 301, H1540-H1550.	1.5	28
74	Prenatal Programming and Epigenetics in the Genesis of the Cardiorenal Syndrome. <i>CardioRenal Medicine</i> , 2011, 1, 243-254.	0.7	27
75	Rosuvastatin ameliorates the development of pulmonary arterial hypertension in the transgenic (mRen2) ²⁷ rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 297, H1128-H1139.	1.5	26
76	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> , 2012, 302, H1667-H1682.	1.5	24
77	The role of dipeptidylpeptidase-4 inhibitors in management of cardiovascular disease in diabetes; focus on linagliptin. <i>Cardiovascular Diabetology</i> , 2018, 17, 59.	2.7	23
78	Endothelial Estrogen Receptor- α Does Not Protect Against Vascular Stiffness Induced by Western Diet in Female Mice. <i>Endocrinology</i> , 2016, 157, 1590-1600.	1.4	22
79	Differential Regulation of Cardiac Function and Intracardiac Cytokines by Rapamycin in Healthy and Diabetic Rats. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-17.	1.9	22
80	Dipeptidyl Peptidase-4 Inhibition With Saxagliptin Ameliorates Angiotensin II-Induced Cardiac Diastolic Dysfunction in Male Mice. <i>Endocrinology</i> , 2017, 158, 3592-3604.	1.4	21
81	Ultrastructural Remodeling of the Neurovascular Unit in the Female Diabetic db/db Model-Part II: Microglia and Mitochondria. <i>Neuroglia (Basel, Switzerland)</i> , 2018, 1, 311-326.	0.3	21
82	Effects of arachidonic acid, prostaglandin F ₂ α , prostaglandin E ₂ , 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> , 1992, 85, 477-485.	0.8	20
83	Renin Inhibition and AT1R blockade improve metabolic signaling, oxidant stress and myocardial tissue remodeling. <i>Metabolism: Clinical and Experimental</i> , 2013, 62, 861-872.	1.5	20
84	Ultrastructural Remodeling of the Neurovascular Unit in the Female Diabetic db/db Model-Part I: Astrocyte. <i>Neuroglia (Basel, Switzerland)</i> , 2018, 1, 220-244.	0.3	18
85	Sacubitril/valsartan inhibits obesity-associated diastolic dysfunction through suppression of ventricular-vascular stiffness. <i>Cardiovascular Diabetology</i> , 2021, 20, 80.	2.7	18
86	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> , 2011, 300, H181-H190.	1.5	17
87	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> , 2013, 3, 154-164.	0.7	17
88	Overnutrition and the Cardiorenal Syndrome: Use of a Rodent Model to Examine Mechanisms. <i>CardioRenal Medicine</i> , 2011, 1, 23-30.	0.7	16
89	Regulation of Overnutrition-Induced Cardiac Inflammatory Mechanisms by nebivolol. <i>CardioRenal Medicine</i> , 2012, 2, 225-233.	0.7	16
90	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> , 2007, 148, 5734-5745.	1.4	14

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91	Salt loading exacerbates diastolic dysfunction and cardiac remodeling in young female Ren2 rats. <i>Metabolism: Clinical and Experimental</i> , 2013, 62, 1761-1771.	1.5	13
92	Endothelial sodium channel activation promotes cardiac stiffness and diastolic dysfunction in Western diet fed female mice. <i>Metabolism: Clinical and Experimental</i> , 2020, 109, 154223.	1.5	13
93	Western diet induces renal artery endothelial stiffening that is dependent on the epithelial Na ⁺ channel. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 318, F1220-F1228.	1.3	13
94	Glutamine Supplementation in Low Birth Weight Infants: Mechanisms of Action. <i>Journal of Parenteral and Enteral Nutrition</i> , 1999, 23, S49-51.	1.3	11
95	Oxygen Uptake, Critical Oxygen Tension, and Available Oxygen for Three Species of Cave Crayfishes. <i>Journal of Crustacean Biology</i> , 1999, 19, 235.	0.3	11
96	Nitric Oxide Inhalation. <i>Chest</i> , 1994, 105, 91S-92S.	0.4	10
97	Indomethacin, Dexamethasone, and Intestinal Damage in Infant Rats. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2002, 35, 154-161.	0.9	9
98	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> , 2010, 339, 55-59.	0.4	8
99	Ultrastructural Remodeling of the Neurovascular Unit in the Female Diabetic db/db Model—Part III: Oligodendrocyte and Myelin. <i>Neuroglia (Basel, Switzerland)</i> , 2018, 1, 351-367.	0.3	8
100	Substitutes for glutamine in proliferation of rat intestinal epithelial cells. <i>Nutrition</i> , 2004, 20, 292-297.	1.1	7
101	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> , 2018, 2018, 1-18.	1.9	7
102	Cystamine reduces vascular stiffness in Western diet-fed female mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022, 322, H167-H180.	1.5	7
103	Insulin Resistance and the Autonomic Nervous System. , 2012, , 307-312.		6
104	Chrelin: A New Incretin Enhancer Therapy?. <i>Diabetes</i> , 2015, 64, 1500-1502.	0.3	6
105	Inhibition of sphingomyelinase attenuates diet-induced increases in aortic stiffness. <i>Journal of Molecular and Cellular Cardiology</i> , 2022, 167, 32-39.	0.9	6
106	Glutamine Supplementation and Deprivation: Effect on Artificially Reared Rat Small Intestinal Morphology. , 0, .		3
107	Mineralocorticoid Receptor Blockade Improves Diastolic Function Independent of Blood Pressure Reduction in Transgenic Model of RAAS Overexpression. , 2011, , P3-440-P3-440.		1
108	Acute combination therapy with Sildenafil and Brain Natriuretic Peptide attenuates monocrotaline (MCT)-induced pulmonary hypertension (PH) in rats. <i>FASEB Journal</i> , 2007, 21, A1435.	0.2	0

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109	TG(mREN2)27 Females Show Differences in the Development of Systemic and Pulmonary Hypertension Compared to Ren2 Males. FASEB Journal, 2008, 22, 758.11.	0.2	0
110	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.	0.2	0
111	Cytokines in Skeletal Muscle Insulin Resistance. , 2011, , 369-383.		0
112	GLUTAMINE DEPRIVATION DURING PREGNANCY: COMPENSATORY MECHANISMS AND ADVERSE EFFECTS. â€ 1368. Pediatric Research, 1997, 41, 230-230.	1.1	0
113	Prevention of Obesityâ€Associated Coronary and Cardiac Diastolic Dysfunction by Deletion of Smooth Muscle Cell Mineralocorticoid Receptor in Females. FASEB Journal, 2019, 33, lb508.	0.2	0