Augusto C Montezano

List of Publications by Citations

99 papers	5,467 citations	38 h-index	73 g-index
111 ext. papers	6,653 ext. citations	6.6 avg, IF	6.12 L-index

#	Paper	IF	Citations
99	Angiotensin II, NADPH oxidase, and redox signaling in the vasculature. *Antioxidants and Redox Signaling*, **2013**, 19, 1110-20	8.4	287
98	NADPH oxidase 1 plays a key role in diabetes mellitus-accelerated atherosclerosis. *Circulation*, **2013** , 127, 1888-902	16.7	273
97	Microparticles: biomarkers and beyond. *Clinical Science*, **2013**, 124, 423-41	6.5	249
96	Angiotensin II and vascular injury. *Current Hypertension Reports*, **2014**, 16, 431	4.7	233
95	Oxidative stress and human hypertension: vascular mechanisms, biomarkers, and novel therapies. *Canadian Journal of Cardiology*, **2015**, 31, 631-41	3.8	207
94	Vascular smooth muscle contraction in hypertension. *Cardiovascular Research*, **2018**, 114, 529-539	9.9	202
93	Reactive oxygen species and endothelial function--role of nitric oxide synthase uncoupling and Nox family nicotinamide adenine dinucleotide phosphate oxidases. *Basic and Clinical Pharmacology and Toxicology*, **2012**, 110, 87-94	3.1	197
92	Reactive oxygen species, vascular Noxs, and hypertension: focus on translational and clinical research. *Antioxidants and Redox Signaling*, **2014**, 20, 164-82	8.4	190
91	Vascular Fibrosis in Aging and Hypertension: Molecular Mechanisms and Clinical Implications. *Canadian Journal of Cardiology*, **2016**, 32, 659-68	3.8	185
90	Vascular biology of ageing-Implications in hypertension. *Journal of Molecular and Cellular Cardiology*, **2015**, 83, 112-21	5.8	169
89	Molecular mechanisms of hypertension--reactive oxygen species and antioxidants: a basic science update for the clinician. *Canadian Journal of Cardiology*, **2012**, 28, 288-95	3.8	167
88	Endothelial microparticle formation by angiotensin II is mediated via Ang II receptor type I/NADPH oxidase/ Rho kinase pathways targeted to lipid rafts. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2011**, 31, 1898-907	9.4	166
87	Vascular smooth muscle cell differentiation to an osteogenic phenotype involves TRPM7 modulation by magnesium. *Hypertension*, **2010**, 56, 453-62	8.5	164
86	Nicotinamide adenine dinucleotide phosphate reduced oxidase 5 (Nox5) regulation by angiotensin II and endothelin-1 is mediated via calcium/calmodulin-dependent, rac-1-independent pathways in human endothelial cells. *Circulation Research*, **2010**, 106, 1363-73	15.7	145
85	Oxidative stress, Noxs, and hypertension: experimental evidence and clinical controversies. *Annals of Medicine*, **2012**, 44 Suppl 1, S2-16	1.5	129
84	Angiotensin II and the vascular phenotype in hypertension. *Expert Reviews in Molecular Medicine*, **2011**, 13, e11	6.7	118
83	Nephropathy and elevated BP in mice with podocyte-specific NADPH oxidase 5 expression. *Journal of the American Society of Nephrology: JASN*, **2014**, 25, 784-97	12.7	92

82	Hypertension due to antiangiogenic cancer therapy with vascular endothelial growth factor inhibitors: understanding and managing a new syndrome. *Canadian Journal of Cardiology*, **2014**, 30, 534-43	3.8	88
81	Oxidative stress, Nox isoforms and complications of diabetes--potential targets for novel therapies. *Journal of Cardiovascular Translational Research*, **2012**, 5, 509-18	3.3	87
80	Downregulation of Nuclear Factor Erythroid 2-Related Factor and Associated Antioxidant Genes Contributes to Redox-Sensitive Vascular Dysfunction in Hypertension. *Hypertension*, **2015**, 66, 1240-50	8.5	84
79	Novel Nox homologues in the vasculature: focusing on Nox4 and Nox5. *Clinical Science*, **2011**, 120, 131-41	6.5	84
78	Systemic microvascular dysfunction in microvascular and vasospastic angina. *European Heart Journal*, **2018**, 39, 4086-4097	9.5	83
77	Differential regulation of Nox1, Nox2 and Nox4 in vascular smooth muscle cells from WKY and SHR. *Journal of the American Society of Hypertension*, **2011**, 5, 137-53		75
76	Microparticles induce cell cycle arrest through redox-sensitive processes in endothelial cells: implications in vascular senescence. *Journal of the American Heart Association*, **2012**, 1, e001842	6	70
75	Chemerin Regulates Crosstalk Between Adipocytes and Vascular Cells Through Nox. *Hypertension*, **2015**, 66, 657-66	8.5	68
74	Redox signaling, Nox5 and vascular remodeling in hypertension. *Current Opinion in Nephrology and Hypertension*, **2015**, 24, 425-33	3.5	64
73	Genomic and non-genomic effects of androgens in the cardiovascular system: clinical implications. *Clinical Science*, **2017**, 131, 1405-1418	6.5	62
72	Oxidative Stress: A Unifying Paradigm in Hypertension. *Canadian Journal of Cardiology*, **2020**, 36, 659-670	3.8	57
71	Endothelin, sex and hypertension. *Clinical Science*, **2008**, 114, 85-97	6.5	57
70	Vascular Nox (NADPH Oxidase) Compartmentalization, Protein Hyperoxidation, and Endoplasmic Reticulum Stress Response in Hypertension. *Hypertension*, **2018**, 72, 235-246	8.5	55
69	Regulation of the novel Mg2+ transporter transient receptor potential melastatin 7 (TRPM7) cation channel by bradykinin in vascular smooth muscle cells. *Journal of Hypertension*, **2009**, 27, 155-66	1.9	52
68	ETA receptor mediates altered leukocyte-endothelial cell interaction and adhesion molecules expression in DOCA-salt rats. *Hypertension*, **2004**, 43, 872-9	8.5	49
67	Nicotinamide Adenine Dinucleotide Phosphate Oxidase-Mediated Redox Signaling and Vascular Remodeling by 16α-Hydroxyestrone in Human Pulmonary Artery Cells: Implications in Pulmonary Arterial Hypertension. *Hypertension*, **2016**, 68, 796-808	8.5	49
66	TRPM7, Magnesium, and Signaling. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	48
65	VEGFR (Vascular Endothelial Growth Factor Receptor) Inhibition Induces Cardiovascular Damage via Redox-Sensitive Processes. *Hypertension*, **2018**, 71, 638-647	8.5	46

64	NOX5: Molecular biology and pathophysiology. *Experimental Physiology*, **2019**, 104, 605-616	2.4	45
63	Vascular Biology of Superoxide-Generating NADPH Oxidase 5-Implications in Hypertension and Cardiovascular Disease. *Antioxidants and Redox Signaling*, **2019**, 30, 1027-1040	8.4	42
62	Vascular signaling through cholesterol-rich domains: implications in hypertension. *Current Opinion in Nephrology and Hypertension*, **2007**, 16, 90-104	3.5	37
61	NADPH Oxidase 5 Is a Pro-Contractile Nox Isoform and a Point of Cross-Talk for Calcium and Redox Signaling-Implications in Vascular Function. *Journal of the American Heart Association*, **2018**, 7,	6	37
60	Oxidative Stress and Hypertension. *Circulation Research*, **2021**, 128, 993-1020	15.7	36
59	Adipocyte-Specific Mineralocorticoid Receptor Overexpression in Mice Is Associated With Metabolic Syndrome and Vascular Dysfunction: Role of Redox-Sensitive PKG-1 and Rho Kinase. *Diabetes*, **2016**, 65, 2392-403	0.9	36
58	Notch3 signalling and vascular remodelling in pulmonary arterial hypertension. *Clinical Science*, **2019**, 133, 2481-2498	6.5	35
57	Chanzyme TRPM7 protects against cardiovascular inflammation and fibrosis. *Cardiovascular Research*, **2020**, 116, 721-735	9.9	35
56	Brown Adipose Tissue Regulates Small Artery Function Through NADPH Oxidase 4-Derived Hydrogen Peroxide and Redox-Sensitive Protein Kinase G-1 *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2017**, 37, 455-465	9.4	34
55	Serotonin Signaling Through the 5-HT Receptor and NADPH Oxidase 1 in Pulmonary Arterial Hypertension. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2017**, 37, 1361-1370	9.4	33
54	Vascular dysfunction and fibrosis in stroke-prone spontaneously hypertensive rats: The aldosterone-mineralocorticoid receptor-Nox1 axis. *Life Sciences*, **2017**, 179, 110-119	6.8	33
53	Temporal changes in cardiac oxidative stress, inflammation and remodeling induced by exercise in hypertension: Role for local angiotensin II reduction. *PLoS ONE*, **2017**, 12, e0189535	3.7	29
52	Mineralocorticoid receptor blockade prevents vascular remodelling in a rodent model of type 2 diabetes mellitus. *Clinical Science*, **2015**, 129, 533-45	6.5	27
51	Vascular injury in diabetic db/db mice is ameliorated by atorvastatin: role of Rac1/2-sensitive Nox-dependent pathways. *Clinical Science*, **2015**, 128, 411-23	6.5	27
50	PARK7/DJ-1 dysregulation by oxidative stress leads to magnesium deficiency: implications in degenerative and chronic diseases. *Clinical Science*, **2015**, 129, 1143-50	6.5	26
49	Differential renal effects of candesartan at high and ultra-high doses in diabetic mice-potential role of the ACE2/AT2R/Mas axis. *Bioscience Reports*, **2016**, 36,	4.1	26
48	Internal Pudental Artery Dysfunction in Diabetes Mellitus Is Mediated by NOX1-Derived ROS-, Nrf2-, and Rho Kinase-Dependent Mechanisms. *Hypertension*, **2016**, 68, 1056-64	8.5	25
47	Tissue sodium excess is not hypertonic and reflects extracellular volume expansion. *Nature Communications*, **2020**, 11, 4222	17.4	25

46	Activation of vascular p38MAPK by mechanical stretch is independent of c-Src and NADPH oxidase: influence of hypertension and angiotensin II. *Journal of the American Society of Hypertension*, **2012**, 6, 169-78		24
45	Adventitia-derived hydrogen peroxide impairs relaxation of the rat carotid artery via smooth muscle cell p38 mitogen-activated protein kinase. *Antioxidants and Redox Signaling*, **2011**, 15, 1507-15	8.4	24
44	Assessment and pathophysiology of microvascular disease: recent progress and clinical implications. *European Heart Journal*, **2021**, 42, 2590-2604	9.5	24
43	Vascular dysfunction in obese diabetic db/db mice involves the interplay between aldosterone/mineralocorticoid receptor and Rho kinase signaling. *Scientific Reports*, **2018**, 8, 2952	4.9	23
42	Isolation and Differentiation of Murine Macrophages. *Methods in Molecular Biology*, **2017**, 1527, 297-309	1.4	22
41	c-Src Inhibition Improves Cardiovascular Function but not Remodeling or Fibrosis in Angiotensin II-Induced Hypertension. *Hypertension*, **2016**, 68, 1179-1190	8.5	22
40	Microparticles from vascular endothelial growth factor pathway inhibitor-treated cancer patients mediate endothelial cell injury. *Cardiovascular Research*, **2019**, 115, 978-988	9.9	21
39	Increased inflammatory biomarkers in hypertensive type 2 diabetic patients: improvement after angiotensin II type 1 receptor blockade. *Journal of the American Society of Hypertension*, **2007**, 1, 189-99		20
38	ER stress and Rho kinase activation underlie the vasculopathy of CADASIL. *JCI Insight*, **2019**, 4,	9.9	19
37	Crosstalk Between Vascular Redox and Calcium Signaling in Hypertension Involves TRPM2 (Transient Receptor Potential Melastatin 2) Cation Channel. *Hypertension*, **2020**, 75, 139-149	8.5	18
36	Cholesteryl ester-transfer protein inhibitors stimulate aldosterone biosynthesis in adipocytes through Nox-dependent processes. *Journal of Pharmacology and Experimental Therapeutics*, **2015**, 353, 27-34	4.7	16
35	Atorvastatin inhibits pro-inflammatory actions of aldosterone in vascular smooth muscle cells by reducing oxidative stress. *Life Sciences*, **2019**, 221, 29-34	6.8	15
34	Vascular toxicity associated with anti-angiogenic drugs. *Clinical Science*, **2020**, 134, 2503-2520	6.5	15
33	Ca-Dependent NOX5 (NADPH Oxidase 5) Exaggerates Cardiac Hypertrophy Through Reactive Oxygen Species Production. *Hypertension*, **2020**, 76, 827-838	8.5	15
32	Isolation and Culture of Vascular Smooth Muscle Cells from Small and Large Vessels. *Methods in Molecular Biology*, **2017**, 1527, 349-354	1.4	14
31	Inhibitory effects of PPAR-gamma on endothelin-1-induced inflammatory pathways in vascular smooth muscle cells from normotensive and hypertensive rats. *Journal of the American Society of Hypertension*, **2007**, 1, 150-60		14
30	Selective ETA vs. dual ETA/B receptor blockade for the prevention of sunitinib-induced hypertension and albuminuria in WKY rats. *Cardiovascular Research*, **2020**, 116, 1779-1790	9.9	13
29	ACE2/Ang-(1-7)/Mas1 axis and the vascular system: vasoprotection to COVID-19-associated vascular disease. *Clinical Science*, **2021**, 135, 387-407	6.5	13

28	Isolation and Differentiation of Human Macrophages. *Methods in Molecular Biology*, **2017**, 1527, 311-320	1.4	11
27	Redox Stress Defines the Small Artery Vasculopathy of Hypertension: How Do We Bridge the Bench-to-Bedside Gap?. *Circulation Research*, **2017**, 120, 1721-1723	15.7	11
26	Isolation and Culture of Endothelial Cells from Large Vessels. *Methods in Molecular Biology*, **2017**, 1527, 345-348	1.4	9
25	Local endothelial DNA repair deficiency causes aging-resembling endothelial-specific dysfunction. *Clinical Science*, **2020**, 134, 727-746	6.5	9
24	High sodium intake, glomerular hyperfiltration, and protein catabolism in patients with essential hypertension. *Cardiovascular Research*, **2021**, 117, 1372-1381	9.9	9
23	Off-Target Vascular Effects of Cholesteryl Ester Transfer Protein Inhibitors Involve Redox-Sensitive and Signal Transducer and Activator of Transcription 3-Dependent Pathways. *Journal of Pharmacology and Experimental Therapeutics*, **2016**, 357, 415-22	4.7	8
22	Comprehensive Characterization of the Vascular Effects of Cisplatin-Based Chemotherapy in Patients With Testicular Cancer. *JACC: CardioOncology*, **2020**, 2, 443-455	3.8	8
21	Sex steroids receptors, hypertension, and vascular ageing. *Journal of Human Hypertension*, **2021**,	2.6	7
20	Importance of cholesterol-rich microdomains in the regulation of Nox isoforms and redox signaling in human vascular smooth muscle cells. *Scientific Reports*, **2020**, 10, 17818	4.9	6
19	Central role of c-Src in NOX5- mediated redox signaling in vascular smooth muscle cells in human hypertension. *Cardiovascular Research*, **2021**,	9.9	5
18	Epidermal growth factor signaling through transient receptor potential melastatin 7 cation channel regulates vascular smooth muscle cell function. *Clinical Science*, **2020**, 134, 2019-2035	6.5	4
17	Cardiovascular and Renal Risk Factors and Complications Associated With COVID-19. *CJC Open*, **2021**, 3, 1257-1272	2	3
16	Reactive Oxygen Species and the Cardiovascular System. *Colloquium Series on Integrated Systems Physiology From Molecule To Function*, **2012**, 4, 1-102		2
15	Biomarkers of Oxidative Stress in Human Hypertension **2016**, 151-170		2
14	Lysophosphatidylcholine induces oxidative stress in human endothelial cells via NOX5 activation - implications in atherosclerosis. *Clinical Science*, **2021**, 135, 1845-1858	6.5	2
13	Mas Signaling **2015**, 169-179		1
12	Microparticles and Exosomes in Cell-Cell Communication **2019**, 159-168		1
11	Osteoprotegerin regulates vascular function through syndecan-1 and NADPH oxidase-derived reactive oxygen species. *Clinical Science*, **2021**, 135, 2429-2444	6.5	1

List of Publications

10	Peripheral arteriopathy caused by Notch3 gain-of-function mutation involves ER and oxidative stress and blunting of NO/sGC/cGMP pathway. *Clinical Science*, **2021**, 135, 753-773	6.5	1
9	Reactive Oxygen Species, Vascular Disease, and Hypertension **2014**, 1123-1154		0
8	Selective Inhibition of the C-Domain of ACE (Angiotensin-Converting Enzyme) Combined With Inhibition of NEP (Neprilysin): A Potential New Therapy for Hypertension. *Hypertension*, **2021**, 78, 604-616	8.5	0
7	Hypertensive Vasculopathy **2014**, 1-28		
6	3 Angiotensin 17 regulation of endothelin-1 system in pulmonary hypertension. *Heart*, **2015**, 101, A1.3-A1	5.1	
5	Hypertensive Vasculopathy **2015**, 1595-1618		
4	Vascular Function **2013**, 45-65		
3	18 MICROPARTICLES INDUCE ENDOTHELIAL CELL SENESCENCE AND CELL CYCLE ARREST THROUGH REDOX-SENSITIVE PROCESSES. *Journal of Hypertension*, **2012**, 30, e6	1.9	
2	Peptides derived from the SARS-CoV-2 receptor binding motif bind to ACE2 but do not block ACE2-mediated host cell entry or pro-inflammatory cytokine induction. *PLoS ONE*, **2021**, 16, e0260283	3.7	
1	The vascular phenotype in hypertension **2022**, 327-342		