Michele M Castro

List of Publications by Citations

50 papers	1,552 citations	23 h-index	39 g-index
52 ext. papers	1,698 ext. citations	4.5 avg, IF	4.4 L-index

#	Paper	IF	Citations
50	Metalloproteinase inhibition ameliorates hypertension and prevents vascular dysfunction and remodeling in renovascular hypertensive rats. *Atherosclerosis*, **2008**, 198, 320-31	3.1	155
49	Antioxidant treatment reduces matrix metalloproteinase-2-induced vascular changes in renovascular hypertension. *Free Radical Biology and Medicine*, **2009**, 46, 1298-307	7.8	134
48	Imbalance between matrix metalloproteinases and tissue inhibitor of metalloproteinases in hypertensive vascular remodeling. *Matrix Biology*, **2010**, 29, 194-201	11.4	94
47	Matrix Metalloproteinase 2 as a Potential Mediator of Vascular Smooth Muscle Cell Migration and Chronic Vascular Remodeling in Hypertension. *Journal of Vascular Research*, **2015**, 52, 221-31	1.9	84
46	Spironolactone and hydrochlorothiazide exert antioxidant effects and reduce vascular matrix metalloproteinase-2 activity and expression in a model of renovascular hypertension. *British Journal of Pharmacology*, **2010**, 160, 77-87	8.6	75
45	Matrix metalloproteinases: targets for doxycycline to prevent the vascular alterations of hypertension. *Pharmacological Research*, **2011**, 64, 567-72	10.2	67
44	Matrix metalloproteinase inhibitor properties of tetracyclines: therapeutic potential in cardiovascular diseases. *Pharmacological Research*, **2011**, 64, 551-60	10.2	66
43	Atorvastatin enhances sildenafil-induced vasodilation through nitric oxide-mediated mechanisms. *European Journal of Pharmacology*, **2004**, 498, 189-94	5.3	57
42	Matrix metalloproteinase inhibition improves cardiac dysfunction and remodeling in 2-kidney, 1-clip hypertension. *Journal of Cardiac Failure*, **2010**, 16, 599-608	3.3	56
41	Low level and sub-chronic exposure to methylmercury induces hypertension in rats: nitric oxide depletion and oxidative damage as possible mechanisms. *Archives of Toxicology*, **2009**, 83, 653-62	5.8	56
40	Doxycycline ameliorates 2K-1C hypertension-induced vascular dysfunction in rats by attenuating oxidative stress and improving nitric oxide bioavailability. *Nitric Oxide - Biology and Chemistry*, **2012**, 26, 162-8	5	51
39	Inhibition of matrix metalloproteinase activity in vivo protects against vascular hyporeactivity in endotoxemia. *American Journal of Physiology - Heart and Circulatory Physiology*, **2010**, 298, H45-51	5.2	51
38	Inhibition of matrix metalloproteinases (MMPs) as a potential strategy to ameliorate hypertension-induced cardiovascular alterations. *Current Drug Targets*, **2013**, 14, 335-43	3	45
37	Doxycycline dose-dependently inhibits MMP-2-mediated vascular changes in 2K1C hypertension. *Basic and Clinical Pharmacology and Toxicology*, **2011**, 108, 318-25	3.1	42
36	Metalloproteinase inhibition protects against cardiomyocyte injury during experimental acute pulmonary thromboembolism. *Critical Care Medicine*, **2011**, 39, 349-56	1.4	41
35	Lercanidipine reduces matrix metalloproteinase-2 activity and reverses vascular dysfunction in renovascular hypertensive rats. *European Journal of Pharmacology*, **2008**, 591, 224-30	5.3	41
34	Tempol inhibits TGF-□and MMPs upregulation and prevents cardiac hypertensive changes. *International Journal of Cardiology*, **2013**, 165, 165-73	3.2	39

33	Quercetin restores plasma nitrite and nitroso species levels in renovascular hypertension. *Naunyn-Schmiedebergʼs Archives of Pharmacology*, **2010**, 382, 293-301	3.4	36
32	Matrix metalloproteinase-2 proteolysis of calponin-1 contributes to vascular hypocontractility in endotoxemic rats. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2012**, 32, 662-8	9.4	35
31	Quercetin decreases the activity of matrix metalloproteinase-2 and ameliorates vascular remodeling in renovascular hypertension. *Atherosclerosis*, **2018**, 270, 146-153	3.1	31
30	Contrasting effects of aliskiren versus losartan on hypertensive vascular remodeling. *International Journal of Cardiology*, **2013**, 167, 1199-205	3.2	31
29	Lercanidipine decreases vascular matrix metalloproteinase-2 activity and protects against vascular dysfunction in diabetic rats. *European Journal of Pharmacology*, **2008**, 599, 110-6	5.3	27
28	Nitrite or sildenafil, but not BAY 41-2272, blunt acute pulmonary embolism-induced increases in circulating matrix metalloproteinase-9 and oxidative stress. *Thrombosis Research*, **2009**, 124, 349-55	8.2	26
27	The potential of stimulating nitric oxide formation in the treatment of hypertension. *Expert Opinion on Therapeutic Targets*, **2017**, 21, 543-556	6.4	23
26	Doxycycline reduces cardiac matrix metalloproteinase-2 activity but does not ameliorate myocardial dysfunction during reperfusion in coronary artery bypass patients undergoing cardiopulmonary bypass. *Critical Care Medicine*, **2013**, 41, 2512-20	1.4	22
25	Matrix metalloproteinase (MMP)-2 decreases calponin-1 levels and contributes to arterial remodeling in early hypertension. *Biochemical Pharmacology*, **2016**, 118, 50-58	6	19
24	Evidence of early involvement of matrix metalloproteinase-2 in lead-induced hypertension. *Archives of Toxicology*, **2009**, 83, 439-49	5.8	19
23	Nitrite exerts antioxidant effects, inhibits the mTOR pathway and reverses hypertension-induced cardiac hypertrophy. *Free Radical Biology and Medicine*, **2018**, 120, 25-32	7.8	18
22	Remodeling of aorta extracellular matrix as a result of transient high oxygen exposure in newborn rats: implication for arterial rigidity and hypertension risk. *PLoS ONE*, **2014**, 9, e92287	3.7	18
21	Nitrite treatment downregulates vascular MMP-2 activity and inhibits vascular remodeling in hypertension independently of its antihypertensive effects. *Free Radical Biology and Medicine*, **2019** , 130, 234-243	7.8	18
20	Matrix metalloproteinase (MMP)-2 activation by oxidative stress decreases aortic calponin-1 levels during hypertrophic remodeling in early hypertension. *Vascular Pharmacology*, **2019**, 116, 36-44	5.9	13
19	Reduced levels of potential circulating biomarkers of cardiovascular diseases in apparently healthy vegetarian men. *Clinica Chimica Acta*, **2016**, 461, 110-3	6.2	10
18	Long-Term Excessive Selenium Supplementation Induces Hypertension in Rats. *Biological Trace Element Research*, **2018**, 182, 70-77	4.5	9
17	Inhibitory effects of caspase inhibitors on the activity of matrix metalloproteinase-2. *Biochemical Pharmacology*, **2013**, 86, 469-75	6	9
16	Matrix Metalloproteinase-2 Activity is Associated with Divergent Regulation of Calponin-1 in Conductance and Resistance Arteries in Hypertension-induced Early Vascular Dysfunction and Remodelling. *Basic and Clinical Pharmacology and Toxicology*, **2017**, 121, 246-256	3.1	7

15	Study of the Biomechanical and Histological Properties of the Abdominal Aorta of Diabetic Rats Exposed to Cigarette Smoke. *Journal of Vascular Research*, **2019**, 56, 255-266	1.9	4
14	Ethanol withdrawal increases blood pressure and vascular oxidative stress: a role for angiotensin type 1 receptors. *Journal of the American Society of Hypertension*, **2018**, 12, 561-573		4
13	Verapamil decreases calpain-1 and matrix metalloproteinase-2 activities and improves hypertension-induced hypertrophic cardiac remodeling in rats. *Life Sciences*, **2020**, 244, 117153	6.8	4
12	MMP inhibition attenuates hypertensive eccentric cardiac hypertrophy and dysfunction by preserving troponin I and dystrophin. *Biochemical Pharmacology*, **2021**, 193, 114744	6	4
11	Inhibition of Matrix Metalloproteinases (MMPs) as a Potential Strategy to Ameliorate Hypertension-Induced Cardiovascular Alterations. *Current Drug Targets*, **2013**, 14, 335-343	3	2
10	Smoothelin-B is not a target of matrix metalloproteinase (MMP)-2 in the vasculature of endotoxemic rats. *Canadian Journal of Physiology and Pharmacology*, **2014**, 92, 887-91	2.4	1
9	Low load strength training, associated with or without blood flow restriction increased NO production and decreased production of reactive oxygen species in the in rats aorta.. *Life Sciences*, **2022**, 120350	6.8	1
8	Metabolic parameters and responsiveness of isolated iliac artery in LDLr mice: role of aerobic exercise training. *American Journal of Cardiovascular Disease*, **2017**, 7, 64-71	0.9	1
7	Omeprazole induces vascular remodeling by mechanisms involving xanthine oxidoreductase and matrix metalloproteinase activation. *Biochemical Pharmacology*, **2021**, 190, 114633	6	1
6	Matrix Metalloproteinases and Hypertension **2014**, 279-293		1
5	[PP.22.25] SODIUM OVERLOAD AFFECTS THE SYMPATHOVAGAL BALANCE AND INDUCES MORPHOLOGICAL AND FUNCTIONAL CHANGES IN RAT AORTA. *Journal of Hypertension*, **2017**, 35, e283	1.9	
4	Reply to: "Quercetin affects gelatinases in rat aortas: Some comments". *Atherosclerosis*, **2018**, 275, 446-447	3.7	
3	Smoothelin-B: a potential target of matrix metalloproteinase (MMP)-2 in the vasculature of endotoxemic rats. *FASEB Journal*, **2011**, 25, 1115.19	0.9	
2	Inhibitory effects of caspase inhibitors on the activity of matrix metalloproteinase (MMP)-2. *FASEB Journal*, **2012**, 26, lb657	0.9	
1	Lack of scarring is not always a sign of cardiac health: Functional and molecular characterization of the rat heart following chronic reperfusion. *PLoS ONE*, **2018**, 13, e0209190	3.7	