Ana M Briones

List of Publications by Year in Descending Order

91 papers	3,810 citations	37 h-index	59 g-index
94 ext. papers	4,407 ext. citations	6.1 avg, IF	5.31 L-index

#	Paper	IF	Citations
91	CCN2 (Cellular Communication Network Factor 2) Deletion Alters Vascular Integrity and Function Predisposing to Aneurysm Formation.. *Hypertension*, **2022**, 79, e42-e55	8.5	2
90	Hypothyroidism confers tolerance to cerebral malaria.. *Science Advances*, **2022**, 8, eabj7110	14.3	0
89	Report on the 24th meeting of the ECCR 8th-9th October 2021. *Clinical Science*, **2021**, 135, 1		
88	Temporal relationship between systemic endothelial dysfunction and alterations in erythrocyte function in a murine model of chronic heart failure. *Cardiovascular Research*, **2021**,	9.9	3
87	K 1.3 channels are novel determinants of macrophage-dependent endothelial dysfunction in angiotensin II-induced hypertension in mice. *British Journal of Pharmacology*, **2021**, 178, 1836-1854	8.6	0
86	Extracellular Tuning of Mitochondrial Respiration Leads to Aortic Aneurysm. *Circulation*, **2021**, 143, 2091-2109	29.7	11
85	High NOR-1 (Neuron-Derived Orphan Receptor 1) Expression Strengthens the Vascular Wall Response to Angiotensin II Leading to Aneurysm Formation in Mice. *Hypertension*, **2021**, 77, 557-570	8.5	4
84	Interleukin-17A induces vascular remodeling of small arteries and blood pressure elevation. *Clinical Science*, **2020**, 134, 513-527	6.5	17
83	Myeloid GRK2 Regulates Obesity-Induced Endothelial Dysfunction by Modulating Inflammatory Responses in Perivascular Adipose Tissue. *Antioxidants*, **2020**, 9,	7.1	2
82	Aging-Associated miR-217 Aggravates Atherosclerosis and Promotes Cardiovascular Dysfunction. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2020**, 40, 2408-2424	9.4	22
81	Characterization of Novel Synthetic Polyphenols: Validation of Antioxidant and Vasculoprotective Activities. *Antioxidants*, **2020**, 9,	7.1	2
80	Vascular smooth muscle cell-specific progerin expression in a mouse model of Hutchinson-Gilford progeria syndrome promotes arterial stiffness: Therapeutic effect of dietary nitrite. *Aging Cell*, **2019**, 18, e12936	9.9	25
79	G Protein-Coupled Receptor Kinase 2 (GRK2) as a Potential Therapeutic Target in Cardiovascular and Metabolic Diseases. *Frontiers in Pharmacology*, **2019**, 10, 112	5.6	37
78	Wilms Tumor 1b Expression Defines a Pro-regenerative Macrophage Subtype and Is Required for Organ Regeneration in the Zebrafish. *Cell Reports*, **2019**, 28, 1296-1306.e6	10.6	27
77	Emerging Roles of Lysyl Oxidases in the Cardiovascular System: New Concepts and Therapeutic Challenges. *Biomolecules*, **2019**, 9,	5.9	16
76	Aldosterone/MR Signaling, Oxidative Stress, and Vascular Dysfunction **2019**,		3
75	Pioglitazone Modulates the Vascular Contractility in Hypertension by Interference with ET-1 Pathway. *Scientific Reports*, **2019**, 9, 16461	4.9	11

74	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
73	Regulator of calcineurin 1 modulates vascular contractility and stiffness through the upregulation of COX-2-derived prostanoids. *Pharmacological Research*, **2018**, 133, 236-249	10.2	8
72	G protein-coupled receptor kinase 2 (GRK2) as an integrative signalling node in the regulation of cardiovascular function and metabolic homeostasis. *Cellular Signalling*, **2018**, 41, 25-32	4.9	27
71	Branched-chain amino acids promote endothelial dysfunction through increased reactive oxygen species generation and inflammation. *Journal of Cellular and Molecular Medicine*, **2018**, 22, 4948-4962	5.6	40
70	mPGES-1 (Microsomal Prostaglandin E Synthase-1) Mediates Vascular Dysfunction in Hypertension Through Oxidative Stress. *Hypertension*, **2018**, 72, 492-502	8.5	19
69	Periarterial fat from two human vascular beds is not a source of aldosterone to promote vasoconstriction. *American Journal of Physiology - Renal Physiology*, **2018**, 315, F1670-F1682	4.3	8
68	Nitric oxide mediates aortic disease in mice deficient in the metalloprotease Adamts1 and in a mouse model of Marfan syndrome. *Nature Medicine*, **2017**, 23, 200-212	50.5	92
67	Isolation of Mature Adipocytes from White Adipose Tissue and Gene Expression Studies by Real-Time Quantitative RT-PCR. *Methods in Molecular Biology*, **2017**, 1527, 283-295	1.4	3
66	Lysyl Oxidase Induces Vascular Oxidative Stress and Contributes to Arterial Stiffness and Abnormal Elastin Structure in Hypertension: Role of p38MAPK. *Antioxidants and Redox Signaling*, **2017**, 27, 379-397	8.4	56
65	Vascular lysyl oxidase over-expression alters extracellular matrix structure and induces oxidative stress. *Cl□nica E Investigaci□n En Arteriosclerosis (English Edition)*, **2017**, 29, 157-165	0.3	0
64	Vascular lysyl oxidase over-expression alters extracellular matrix structure and induces oxidative stress. *Cl□nica E Investigaci□n En Arteriosclerosis*, **2017**, 29, 157-165	1.4	3
63	Oxidative Stress in Human Atherothrombosis: Sources, Markers and Therapeutic Targets. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	34
62	Activation of PPAR□ prevents hyperglycaemia-induced impairment of Kv7 channels and cAMP-mediated relaxation in rat coronary arteries. *Clinical Science*, **2016**, 130, 1823-36	6.5	9
61	NADPH oxidases and vascular remodeling in cardiovascular diseases. *Pharmacological Research*, **2016**, 114, 110-120	10.2	88
60	Hu antigen R is required for NOX-1 but not NOX-4 regulation by inflammatory stimuli in vascular smooth muscle cells. *Journal of Hypertension*, **2016**, 34, 253-65	1.9	17
59	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
58	Cerebrovascular endothelial dysfunction induced by mercury exposure at low concentrations. *NeuroToxicology*, **2016**, 53, 282-289	4.4	10
57	Interleukin-33/ST2 system attenuates aldosterone-induced adipogenesis and inflammation. *Molecular and Cellular Endocrinology*, **2015**, 411, 20-7	4.4	18

56	c-Src, ERK1/2 and Rho kinase mediate hydrogen peroxide-induced vascular contraction in hypertension: role of TXA2, NAD(P)H oxidase and mitochondria. *Journal of Hypertension*, **2015**, 33, 77-87	1.9	27
55	Carnitine palmitoyltransferase-1 up-regulation by PPAR-β prevents lipid-induced endothelial dysfunction. *Clinical Science*, **2015**, 129, 823-37	6.5	33
54	Molecular physiopathology of obesity-related diseases: multi-organ integration by GRK2. *Archives of Physiology and Biochemistry*, **2015**, 121, 163-77	2.2	9
53	Oxidative stress and human hypertension: vascular mechanisms, biomarkers, and novel therapies. *Canadian Journal of Cardiology*, **2015**, 31, 631-41	3.8	207
52	Increased nitric oxide bioavailability in adult GRK2 hemizygous mice protects against angiotensin II-induced hypertension. *Hypertension*, **2014**, 63, 369-75	8.5	37
51	New roles for old pathways? A circuitous relationship between reactive oxygen species and cyclo-oxygenase in hypertension. *Clinical Science*, **2014**, 126, 111-21	6.5	58
50	Small artery remodeling in obesity and insulin resistance. *Current Vascular Pharmacology*, **2014**, 12, 427-37	3.3	18
49	Mercury induces proliferation and reduces cell size in vascular smooth muscle cells through MAPK, oxidative stress and cyclooxygenase-2 pathways. *Toxicology and Applied Pharmacology*, **2013**, 268, 188-200	4.6	43
48	Aerobic exercise reduces oxidative stress and improves vascular changes of small mesenteric and coronary arteries in hypertension. *British Journal of Pharmacology*, **2013**, 168, 686-703	8.6	93
47	Exercise training and cardiometabolic diseases: focus on the vascular system. *Current Hypertension Reports*, **2013**, 15, 204-14	4.7	40
46	Apocynin prevents vascular effects caused by chronic exposure to low concentrations of mercury. *PLoS ONE*, **2013**, 8, e55806	3.7	37
45	Reciprocal relationship between reactive oxygen species and cyclooxygenase-2 and vascular dysfunction in hypertension. *Antioxidants and Redox Signaling*, **2013**, 18, 51-65	8.4	115
44	Pioglitazone treatment increases COX-2-derived prostacyclin production and reduces oxidative stress in hypertensive rats: role in vascular function. *British Journal of Pharmacology*, **2012**, 166, 1303-19	8.6	21
43	Adipocytes produce aldosterone through calcineurin-dependent signaling pathways: implications in diabetes mellitus-associated obesity and vascular dysfunction. *Hypertension*, **2012**, 59, 1069-78	8.5	232
42	Peroxisome proliferator-activated receptor-α activation reduces cyclooxygenase-2 expression in vascular smooth muscle cells from hypertensive rats by interfering with oxidative stress. *Journal of Hypertension*, **2012**, 30, 315-26	1.9	43
41	Reactive oxygen species and vascular biology: implications in human hypertension. *Hypertension Research*, **2011**, 34, 5-14	4.7	308
40	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
39	NOX isoforms and reactive oxygen species in vascular health. *Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics*, **2011**, 11, 27-35		87

38	Adipocyte-derived factors regulate vascular smooth muscle cells through mineralocorticoid and glucocorticoid receptors. *Hypertension*, **2011**, 58, 479-88	8.5	56
37	Vascular proinflammatory responses by aldosterone are mediated via c-Src trafficking to cholesterol-rich microdomains: role of PDGFR. *Cardiovascular Research*, **2011**, 91, 720-31	9.9	39
36	Liver growth factor treatment restores cell-extracellular matrix balance in resistance arteries and improves left ventricular hypertrophy in SHR. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 301, H1153-65	5.2	21
35	Role of extracellular matrix in vascular remodeling of hypertension. *Current Opinion in Nephrology and Hypertension*, **2010**, 19, 187-94	3.5	62
34	Oxidative stress and hypertension: current concepts. *Current Hypertension Reports*, **2010**, 12, 135-42	4.7	250
33	Moderate exercise decreases inflammation and oxidative stress in hypertension: but what are the mechanisms?. *Hypertension*, **2009**, 54, 1206-8	8.5	12
32	Atorvastatin prevents angiotensin II-induced vascular remodeling and oxidative stress. *Hypertension*, **2009**, 54, 142-9	8.5	91
31	p38 MAPK contributes to angiotensin II-induced COX-2 expression in aortic fibroblasts from normotensive and hypertensive rats. *Journal of Hypertension*, **2009**, 27, 142-54	1.9	28
30	Losartan and tempol treatments normalize the increased response to hydrogen peroxide in resistance arteries from hypertensive rats. *Journal of Hypertension*, **2009**, 27, 1814-22	1.9	10
29	Activation of BKCa channels by nitric oxide prevents coronary artery endothelial dysfunction in ouabain-induced hypertensive rats. *Journal of Hypertension*, **2009**, 27, 83-91	1.9	15
28	Heightened aberrant deposition of hard-wearing elastin in conduit arteries of prehypertensive SHR is associated with increased stiffness and inward remodeling. *American Journal of Physiology - Heart and Circulatory Physiology*, **2008**, 295, H2299-307	5.2	40
27	Ouabain treatment increases nitric oxide bioavailability and decreases superoxide anion production in cerebral vessels. *Journal of Hypertension*, **2008**, 26, 1944-54	1.9	9
26	Transient middle cerebral artery occlusion causes different structural, mechanical, and myogenic alterations in normotensive and hypertensive rats. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 293, H628-35	5.2	33
25	The dietary flavonoid quercetin activates BKCa currents in coronary arteries via production of H2O2. Role in vasodilatation. *Cardiovascular Research*, **2007**, 73, 424-31	9.9	64
24	Losartan reduces the increased participation of cyclooxygenase-2-derived products in vascular responses of hypertensive rats. *Journal of Pharmacology and Experimental Therapeutics*, **2007**, 321, 381-8	4.7	60
23	Mechanisms underlying hypertrophic remodeling and increased stiffness of mesenteric resistance arteries from aged rats. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2007**, 62, 696-706	6.4	30
22	Alterations in structure and mechanics of resistance arteries from ouabain-induced hypertensive rats. *American Journal of Physiology - Heart and Circulatory Physiology*, **2006**, 291, H193-201	5.2	44
21	Postnatal alterations in elastic fiber organization precede resistance artery narrowing in SHR. *American Journal of Physiology - Heart and Circulatory Physiology*, **2006**, 291, H804-12	5.2	35

20	Human vascular smooth muscle cells from diabetic patients are resistant to induced apoptosis due to high Bcl-2 expression. *Diabetes*, **2006**, 55, 1243-51	0.9	39
19	Increased superoxide anion production by interleukin-1beta impairs nitric oxide-mediated relaxation in resistance arteries. *Journal of Pharmacology and Experimental Therapeutics*, **2006**, 316, 42-52	4.7	60
18	Hypertension increases the participation of vasoconstrictor prostanoids from cyclooxygenase-2 in phenylephrine responses. *Journal of Hypertension*, **2005**, 23, 767-77	1.9	68
17	Direct demonstration of beta1- and evidence against beta2- and beta3-adrenoceptors, in smooth muscle cells of rat small mesenteric arteries. *British Journal of Pharmacology*, **2005**, 146, 679-91	8.6	48
16	Influence of elastin on rat small artery mechanical properties. *Experimental Physiology*, **2005**, 90, 463-8	2.4	37
15	New aspects of vascular remodelling: the involvement of all vascular cell types. *Experimental Physiology*, **2005**, 90, 469-75	2.4	65
14	Ageing alters the production of nitric oxide and prostanoids after IL-1beta exposure in mesenteric resistance arteries. *Mechanisms of Ageing and Development*, **2005**, 126, 710-21	5.6	24
13	Hypertension alters role of iNOS, COX-2, and oxidative stress in bradykinin relaxation impairment after LPS in rat cerebral arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 287, H225-34	5.2	43
12	Confocal microscopic image sequence compression using vector quantization and three-dimensional pyramid. *Scanning*, **2003**, 25, 247-56	1.6	1
11	Mechanisms involved in the early increase of serotonin contraction evoked by endotoxin in rat middle cerebral arteries. *British Journal of Pharmacology*, **2003**, 140, 671-80	8.6	25
10	Role of elastin in spontaneously hypertensive rat small mesenteric artery remodelling. *Journal of Physiology*, **2003**, 552, 185-95	3.9	98
9	Alterations by age of calcium handling in rat resistance arteries. *Journal of Cardiovascular Pharmacology*, **2002**, 40, 832-40	3.1	14
8	Ouabain-induced hypertension is accompanied by increases in endothelial vasodilator factors. *American Journal of Physiology - Heart and Circulatory Physiology*, **2002**, 283, H2110-8	5.2	44
7	Alterations of the nitric oxide pathway in cerebral arteries from spontaneously hypertensive rats. *Journal of Cardiovascular Pharmacology*, **2002**, 39, 378-88	3.1	25
6	Hypertension alters the participation of contractile prostanoids and superoxide anions in lipopolysaccharide effects on small mesenteric arteries. *Life Sciences*, **2002**, 71, 1997-2014	6.8	21
5	Nitric oxide synthase induction by ouabain in vascular smooth muscle cells from normotensive and hypertensive rats. *Journal of Hypertension*, **2000**, 18, 877-84	1.9	13
4	Influence of hypertension on nitric oxide synthase expression and vascular effects of lipopolysaccharide in rat mesenteric arteries. *British Journal of Pharmacology*, **2000**, 131, 185-94	8.6	37
3	Mechanisms involved in the cellular calcium homeostasis in vascular smooth muscle: calcium pumps. *Life Sciences*, **1999**, 64, 279-303	6.8	68

2	Role of iNOS in the vasodilator responses induced by L-arginine in the middle cerebral artery from normotensive and hypertensive rats. *British Journal of Pharmacology*, **1999**, 126, 111-20	8.6	20
1	Changes in plasma oxidative state with age and their influence on contractions elicited by noradrenaline in the rat tail artery. *Life Sciences*, **1999**, 65, 915-24	6.8	12