

Ana M Briones

List of Publications by Year in descending order

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94
papers

4,922
citations

71102

41
h-index

98798

67
g-index

94
all docs

94
docs citations

94
times ranked

6765
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactive oxygen species and vascular biology: implications in human hypertension. <i>Hypertension Research</i> , 2011, 34, 5-14.	2.7	371
2	Adipocytes Produce Aldosterone Through Calcineurin-Dependent Signaling Pathways. <i>Hypertension</i> , 2012, 59, 1069-1078.	2.7	292
3	Oxidative Stress and Hypertension: Current Concepts. <i>Current Hypertension Reports</i> , 2010, 12, 135-142.	3.5	288
4	Oxidative Stress and Human Hypertension: Vascular Mechanisms, Biomarkers, and Novel Therapies. <i>Canadian Journal of Cardiology</i> , 2015, 31, 631-641.	1.7	257
5	Nitric oxide mediates aortic disease in mice deficient in the metalloprotease Adamts1 and in a mouse model of Marfan syndrome. <i>Nature Medicine</i> , 2017, 23, 200-212.	30.7	134
6	Reciprocal Relationship Between Reactive Oxygen Species and Cyclooxygenase-2 and Vascular Dysfunction in Hypertension. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 51-65.	5.4	127
7	Role of Elastin in Spontaneously Hypertensive Rat Small Mesenteric Artery Remodelling. <i>Journal of Physiology</i> , 2003, 552, 185-195.	2.9	122
8	Aerobic exercise reduces oxidative stress and improves vascular changes of small mesenteric and coronary arteries in hypertension. <i>British Journal of Pharmacology</i> , 2013, 168, 686-703.	5.4	119
9	NADPH oxidases and vascular remodeling in cardiovascular diseases. <i>Pharmacological Research</i> , 2016, 114, 110-120.	7.1	110
10	Atorvastatin Prevents Angiotensin II-Induced Vascular Remodeling and Oxidative Stress. <i>Hypertension</i> , 2009, 54, 142-149.	2.7	104
11	NOX Isoforms and Reactive Oxygen Species in Vascular Health. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2011, 11, 27-35.	3.4	103
12	Lysyl Oxidase Induces Vascular Oxidative Stress and Contributes to Arterial Stiffness and Abnormal Elastin Structure in Hypertension: Role of p38MAPK. <i>Antioxidants and Redox Signaling</i> , 2017, 27, 379-397.	5.4	91
13	Branched-chain amino acids promote endothelial dysfunction through increased reactive oxygen species generation and inflammation. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 4948-4962.	3.6	89
14	Differential regulation of Nox1, Nox2 and Nox4 in vascular smooth muscle cells from WKY and SHR. <i>Journal of the American Society of Hypertension</i> , 2011, 5, 137-153.	2.3	83
15	Role of extracellular matrix in vascular remodeling of hypertension. <i>Current Opinion in Nephrology and Hypertension</i> , 2010, 19, 187-194.	2.0	81
16	Mechanisms involved in the cellular calcium homeostasis in vascular smooth muscle: Calcium pumps. <i>Life Sciences</i> , 1998, 64, 279-303.	4.3	78
17	New aspects of vascular remodelling: the involvement of all vascular cell types. <i>Experimental Physiology</i> , 2005, 90, 469-475.	2.0	77
18	The dietary flavonoid quercetin activates BKCa currents in coronary arteries via production of H ₂ O ₂ . Role in vasodilatation. <i>Cardiovascular Research</i> , 2007, 73, 424-431.	3.8	77

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19	New roles for old pathways? A circuitous relationship between reactive oxygen species and cyclo-oxygenase in hypertension. <i>Clinical Science</i> , 2014, 126, 111-121.	4.3	75
20	Hypertension increases the participation of vasoconstrictor prostanoids from cyclooxygenase-2 in phenylephrine responses. <i>Journal of Hypertension</i> , 2005, 23, 767-777.	0.5	73
21	Aging-Associated miR-217 Aggravates Atherosclerosis and Promotes Cardiovascular Dysfunction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 2408-2424.	2.4	73
22	Increased Superoxide Anion Production by Interleukin-1 β Impairs Nitric Oxide-Mediated Relaxation in Resistance Arteries. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 316, 42-52.	2.5	69
23	G Protein-Coupled Receptor Kinase 2 (GRK2) as a Potential Therapeutic Target in Cardiovascular and Metabolic Diseases. <i>Frontiers in Pharmacology</i> , 2019, 10, 112.	3.5	68
24	Losartan Reduces the Increased Participation of Cyclooxygenase-2-Derived Products in Vascular Responses of Hypertensive Rats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007, 321, 381-388.	2.5	66
25	Adipocyte-Derived Factors Regulate Vascular Smooth Muscle Cells Through Mineralocorticoid and Glucocorticoid Receptors. <i>Hypertension</i> , 2011, 58, 479-488.	2.7	63
26	Wilms Tumor 1b Expression Defines a Pro-regenerative Macrophage Subtype and Is Required for Organ Regeneration in the Zebrafish. <i>Cell Reports</i> , 2019, 28, 1296-1306.e6.	6.4	61
27	Direct demonstration of α_1 - and evidence against α_2 - and α_3 -adrenoceptors, in smooth muscle cells of rat small mesenteric arteries. <i>British Journal of Pharmacology</i> , 2005, 146, 679-691.	5.4	59
28	Alterations in structure and mechanics of resistance arteries from ouabain-induced hypertensive rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H193-H201.	3.2	59
29	Exercise Training and Cardiometabolic Diseases: Focus on the Vascular System. <i>Current Hypertension Reports</i> , 2013, 15, 204-214.	3.5	57
30	Extracellular Tuning of Mitochondrial Respiration Leads to Aortic Aneurysm. <i>Circulation</i> , 2021, 143, 2091-2109.	1.6	54
31	Peroxisome proliferator-activated receptor- γ activation reduces cyclooxygenase-2 expression in vascular smooth muscle cells from hypertensive rats by interfering with oxidative stress. <i>Journal of Hypertension</i> , 2012, 30, 315-326.	0.5	51
32	Vascular smooth muscle cell-specific progerin expression in a mouse model of Hutchinson-Gilford progeria syndrome promotes arterial stiffness: Therapeutic effect of dietary nitrite. <i>Aging Cell</i> , 2019, 18, e12936.	6.7	51
33	Ouabain-induced hypertension is accompanied by increases in endothelial vasodilator factors. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 283, H2110-H2118.	3.2	50
34	Mercury induces proliferation and reduces cell size in vascular smooth muscle cells through MAPK, oxidative stress and cyclooxygenase-2 pathways. <i>Toxicology and Applied Pharmacology</i> , 2013, 268, 188-200.	2.8	49
35	Influence of elastin on rat small artery mechanical properties. <i>Experimental Physiology</i> , 2005, 90, 463-468.	2.0	47
36	Influence of hypertension on nitric oxide synthase expression and vascular effects of lipopolysaccharide in rat mesenteric arteries. <i>British Journal of Pharmacology</i> , 2000, 131, 185-194.	5.4	46

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37	Hypertension alters role of iNOS, COX-2, and oxidative stress in bradykinin relaxation impairment after LPS in rat cerebral arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 287, H225-H234.	3.2	45
38	Vascular proinflammatory responses by aldosterone are mediated via c-Src trafficking to cholesterol-rich microdomains: role of PDGFR. <i>Cardiovascular Research</i> , 2011, 91, 720-731.	3.8	45
39	Oxidative Stress in Human Atherothrombosis: Sources, Markers and Therapeutic Targets. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2315.	4.1	45
40	Human Vascular Smooth Muscle Cells From Diabetic Patients Are Resistant to Induced Apoptosis Due to High Bcl-2 Expression. <i>Diabetes</i> , 2006, 55, 1243-1251.	0.6	42
41	Heightened aberrant deposition of hard-wearing elastin in conduit arteries of prehypertensive SHR is associated with increased stiffness and inward remodeling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H2299-H2307.	3.2	42
42	Increased Nitric Oxide Bioavailability in Adult GRK2 Hemizygous Mice Protects Against Angiotensin II-Induced Hypertension. <i>Hypertension</i> , 2014, 63, 369-375.	2.7	42
43	Carnitine palmitoyltransferase-1 up-regulation by PPAR- α prevents lipid-induced endothelial dysfunction. <i>Clinical Science</i> , 2015, 129, 823-837.	4.3	42
44	Apocynin Prevents Vascular Effects Caused by Chronic Exposure to Low Concentrations of Mercury. <i>PLoS ONE</i> , 2013, 8, e55806.	2.5	40
45	Postnatal alterations in elastic fiber organization precede resistance artery narrowing in SHR. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H804-H812.	3.2	39
46	Mechanisms Underlying Hypertrophic Remodeling and Increased Stiffness of Mesenteric Resistance Arteries From Aged Rats. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2007, 62, 696-706.	3.6	39
47	Emerging Roles of Lysyl Oxidases in the Cardiovascular System: New Concepts and Therapeutic Challenges. <i>Biomolecules</i> , 2019, 9, 610.	4.0	39
48	G protein-coupled receptor kinase 2 (GRK2) as an integrative signalling node in the regulation of cardiovascular function and metabolic homeostasis. <i>Cellular Signalling</i> , 2018, 41, 25-32.	3.6	36
49	c-Src, ERK1/2 and Rho kinase mediate hydrogen peroxide-induced vascular contraction in hypertension. <i>Journal of Hypertension</i> , 2015, 33, 77-87.	0.5	35
50	Transient middle cerebral artery occlusion causes different structural, mechanical, and myogenic alterations in normotensive and hypertensive rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H628-H635.	3.2	34
51	p38 MAPK contributes to angiotensin II-induced COX-2 expression in aortic fibroblasts from normotensive and hypertensive rats. <i>Journal of Hypertension</i> , 2009, 27, 142-154.	0.5	32
52	Differential renal effects of candesartan at high and ultra-high doses in diabetic mice—potential role of the ACE2/AT2R/Mas axis. <i>Bioscience Reports</i> , 2016, 36, .	2.4	32
53	Vascular dysfunction in obese diabetic db/db mice involves the interplay between aldosterone/mineralocorticoid receptor and Rho kinase signaling. <i>Scientific Reports</i> , 2018, 8, 2952.	3.3	32
54	Interleukin-17A induces vascular remodeling of small arteries and blood pressure elevation. <i>Clinical Science</i> , 2020, 134, 513-527.	4.3	31

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55	Mechanisms involved in the early increase of serotonin contraction evoked by endotoxin in rat middle cerebral arteries. <i>British Journal of Pharmacology</i> , 2003, 140, 671-680.	5.4	30
56	mPGES-1 (Microsomal Prostaglandin E Synthase-1) Mediates Vascular Dysfunction in Hypertension Through Oxidative Stress. <i>Hypertension</i> , 2018, 72, 492-502.	2.7	29
57	Alterations of the Nitric Oxide Pathway in Cerebral Arteries from Spontaneously Hypertensive Rats. <i>Journal of Cardiovascular Pharmacology</i> , 2002, 39, 378-388.	1.9	27
58	Small Artery Remodeling in Obesity and Insulin Resistance. <i>Current Vascular Pharmacology</i> , 2014, 12, 427-437.	1.7	27
59	Ageing alters the production of nitric oxide and prostanoids after IL-1 β exposure in mesenteric resistance arteries. <i>Mechanisms of Ageing and Development</i> , 2005, 126, 710-721.	4.6	26
60	Interleukin-33/ST2 system attenuates aldosterone-induced adipogenesis and inflammation. <i>Molecular and Cellular Endocrinology</i> , 2015, 411, 20-27.	3.2	26
61	Pioglitazone treatment increases COX-2-derived prostacyclin production and reduces oxidative stress in hypertensive rats: role in vascular function. <i>British Journal of Pharmacology</i> , 2012, 166, 1303-1319.	5.4	24
62	Hypertension alters the participation of contractile prostanoids and superoxide anions in lipopolysaccharide effects on small mesenteric arteries. <i>Life Sciences</i> , 2002, 71, 1997-2014.	4.3	23
63	Liver growth factor treatment restores cell-extracellular matrix balance in resistance arteries and improves left ventricular hypertrophy in SHR. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 301, H1153-H1165.	3.2	23
64	Role of iNOS in the vasodilator responses induced by L-arginine in the middle cerebral artery from normotensive and hypertensive rats. <i>British Journal of Pharmacology</i> , 1999, 126, 111-120.	5.4	22
65	Hu antigen R is required for NOX-1 but not NOX-4 regulation by inflammatory stimuli in vascular smooth muscle cells. <i>Journal of Hypertension</i> , 2016, 34, 253-265.	0.5	19
66	Pioglitazone Modulates the Vascular Contractility in Hypertension by Interference with ET-1 Pathway. <i>Scientific Reports</i> , 2019, 9, 16461.	3.3	19
67	Interferon-stimulated gene 15 pathway is a novel mediator of endothelial dysfunction and aneurysms development in angiotensin II infused mice through increased oxidative stress. <i>Cardiovascular Research</i> , 2022, 118, 3250-3268.	3.8	18
68	Alterations by Age of Calcium Handling in Rat Resistance Arteries. <i>Journal of Cardiovascular Pharmacology</i> , 2002, 40, 832-840.	1.9	17
69	Temporal relationship between systemic endothelial dysfunction and alterations in erythrocyte function in a murine model of chronic heart failure. <i>Cardiovascular Research</i> , 2022, 118, 2610-2624.	3.8	17
70	Moderate Exercise Decreases Inflammation and Oxidative Stress in Hypertension. <i>Hypertension</i> , 2009, 54, 1206-1208.	2.7	16
71	Activation of BKCa channels by nitric oxide prevents coronary artery endothelial dysfunction in ouabain-induced hypertensive rats. <i>Journal of Hypertension</i> , 2009, 27, 83-91.	0.5	16
72	Changes in plasma oxidative state with age and their influence on contractions elicited by noradrenaline in the rat tail artery. <i>Life Sciences</i> , 1999, 65, 915-924.	4.3	14

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73	High NOR-1 (Neuron-Derived Orphan Receptor 1) Expression Strengthens the Vascular Wall Response to Angiotensin II Leading to Aneurysm Formation in Mice. <i>Hypertension</i> , 2021, 77, 557-570.	2.7	14
74	Nitric oxide synthase induction by ouabain in vascular smooth muscle cells from normotensive and hypertensive rats. <i>Journal of Hypertension</i> , 2000, 18, 877-884.	0.5	13
75	Losartan and tempol treatments normalize the increased response to hydrogen peroxide in resistance arteries from hypertensive rats. <i>Journal of Hypertension</i> , 2009, 27, 1814-1822.	0.5	12
76	Regulator of calcineurin 1 modulates vascular contractility and stiffness through the upregulation of COX-2-derived prostanoids. <i>Pharmacological Research</i> , 2018, 133, 236-249.	7.1	12
77	Cerebrovascular endothelial dysfunction induced by mercury exposure at low concentrations. <i>NeuroToxicology</i> , 2016, 53, 282-289.	3.0	11
78	Periarterial fat from two human vascular beds is not a source of aldosterone to promote vasoconstriction. <i>American Journal of Physiology - Renal Physiology</i> , 2018, 315, F1670-F1682.	2.7	11
79	Ouabain treatment increases nitric oxide bioavailability and decreases superoxide anion production in cerebral vessels. <i>Journal of Hypertension</i> , 2008, 26, 1944-1954.	0.5	10
80	Activation of PPAR γ prevents hyperglycaemia-induced impairment of Kv7 channels and cAMP-mediated relaxation in rat coronary arteries. <i>Clinical Science</i> , 2016, 130, 1823-1836.	4.3	10
81	Molecular physiopathology of obesity-related diseases: multi-organ integration by GRK2. <i>Archives of Physiology and Biochemistry</i> , 2015, 121, 163-177.	2.1	9
82	CCN2 (Cellular Communication Network Factor 2) Deletion Alters Vascular Integrity and Function Predisposing to Aneurysm Formation. <i>Hypertension</i> , 2022, 79, e42-e55.	2.7	9
83	Isolation of Mature Adipocytes from White Adipose Tissue and Gene Expression Studies by Real-Time Quantitative RT-PCR. <i>Methods in Molecular Biology</i> , 2017, 1527, 283-295.	0.9	8
84	Characterization of Novel Synthetic Polyphenols: Validation of Antioxidant and Vasculoprotective Activities. <i>Antioxidants</i> , 2020, 9, 787.	5.1	7
85	Specialized Pro-Resolving Lipid Mediators: New Therapeutic Approaches for Vascular Remodeling. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3592.	4.1	7
86	La sobreexpresi3n vascular de la lisil oxidasa altera la estructura de la matriz extracelular e induce estr3s oxidativo. <i>Cl3nica E Investigaci3n En Arteriosclerosis</i> , 2017, 29, 157-165.	0.8	6
87	Microsomal prostaglandin E synthase4 is involved in the metabolic and cardiovascular alterations associated with obesity. <i>British Journal of Pharmacology</i> , 2022, 179, 2733-2753.	5.4	6
88	Hypothyroidism confers tolerance to cerebral malaria. <i>Science Advances</i> , 2022, 8, eabj7110.	10.3	5
89	Vascular lysyl oxidase over-expression alters extracellular matrix structure and induces oxidative stress. <i>Cl3nica E Investigaci3n En Arteriosclerosis (English Edition)</i> , 2017, 29, 157-165.	0.2	3
90	Aldosterone/MR Signaling, Oxidative Stress, and Vascular Dysfunction. , 2019, , .		3

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91	Myeloid GRK2 Regulates Obesity-Induced Endothelial Dysfunction by Modulating Inflammatory Responses in Perivascular Adipose Tissue. <i>Antioxidants</i> , 2020, 9, 953.	5.1	3
92	K V 1.3 channels are novel determinants of macrophage-dependent endothelial dysfunction in angiotensin II-induced hypertension in mice. <i>British Journal of Pharmacology</i> , 2021, 178, 1836-1854.	5.4	3
93	Confocal microscopic image sequence compression using vector quantization and three-dimensional pyramid. <i>Scanning</i> , 2003, 25, 247-256.	1.5	1
94	Report on the 24th meeting of the ECCR 8th-9th October 2021. <i>Clinical Science</i> , 2021, 135, 1-1.	0.0	0