Marilyn J Cipolla

List of Publications by Year in Descending Order

136 papers	4,646 citations	41 h-index	64 g-index
142 ext. papers	5,202 ext. citations	4.7 avg, IF	5.94 L-index

#	Paper	IF	Citations
136	Cerebrovascular Pathophysiology in Preeclampsia and Eclampsia **2022**, 265-288		
135	Treatment with apocynin selectively restores hippocampal arteriole function and seizure-induced hyperemia in a model of preeclampsia.. *Journal of Cerebral Blood Flow and Metabolism*, **2022**, 271678X221080092	7.3	0
134	Therapeutic Induction of Collateral Flow.. *Translational Stroke Research*, **2022**, 1	7.8	1
133	Mechanisms of Flow-Mediated Dilation of Pial Collaterals and the Effect of Hypertension. *Hypertension*, **2021**, HYPERTENSIONAHA12118602	8.5	1
132	Abnormal development of cerebral arteries and veins in offspring of experimentally preeclamptic rats: Potential role in perinatal stroke. *Mechanisms of Ageing and Development*, **2021**, 196, 111491	5.6	0
131	Thomas Willis Lecture: Targeting Brain Arterioles for Acute Stroke Treatment. *Stroke*, **2021**, 52, 2465-2477	6.7	0
130	Vascular Biology. *Stroke*, **2021**, 52, 2440-2441	6.7	
129	Hippocampal network dysfunction as a mechanism of early-onset dementia after preeclampsia and eclampsia. *Progress in Neurobiology*, **2021**, 199, 101938	10.9	4
128	ACE (Angiotensin-Converting Enzyme) Inhibition Reverses Vasoconstriction and Impaired Dilation of Pial Collaterals in Chronic Hypertension. *Hypertension*, **2020**, 76, 226-235	8.5	6
127	Perinatal stroke. *Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn*, **2020**, 171, 313-326	3	1
126	Rapamycin Induces an eNOS (Endothelial Nitric Oxide Synthase) Dependent Increase in Brain Collateral Perfusion in Wistar and Spontaneously Hypertensive Rats. *Stroke*, **2020**, 51, 2834-2843	6.7	6
125	Impact of Acute and Chronic Hypertension on Changes in Pial Collateral Tone In Vivo During Transient Ischemia. *Hypertension*, **2020**, 76, 1019-1026	8.5	4
124	Memory impairment in spontaneously hypertensive rats is associated with hippocampal hypoperfusion and hippocampal vascular dysfunction. *Journal of Cerebral Blood Flow and Metabolism*, **2020**, 40, 845-859	7.3	12
123	Transient receptor potential vanilloid-4 channels are involved in diminished myogenic tone in brain parenchymal arterioles in response to chronic hypoperfusion in mice. *Acta Physiologica*, **2019**, 225, e13181	5.6	6
122	Posterior reversible encephalopathy syndrome in stroke-prone spontaneously hypertensive rats on high-salt diet. *Journal of Cerebral Blood Flow and Metabolism*, **2019**, 39, 1232-1246	7.3	6
121	Effect of TTC Treatment on Immunohistochemical Quantification of Collagen IV in Rat Brains after Stroke. *Translational Stroke Research*, **2018**, 9, 499-505	7.8	4
120	Impaired function of cerebral parenchymal arterioles in experimental preeclampsia. *Microvascular Research*, **2018**, 119, 64-72	3.7	15

119	Pharmacologically increasing collateral perfusion during acute stroke using a carboxyhemoglobin gas transfer agent (Sanguinate) in spontaneously hypertensive rats. *Journal of Cerebral Blood Flow and Metabolism*, **2018**, 38, 755-766	7.3	25
118	Inhibition of blood-brain barrier efflux transporters promotes seizure in pregnant rats: Role of circulating factors. *Brain, Behavior, and Immunity*, **2018**, 67, 13-23	16.6	15
117	Visual evoked potentials in women with and without preeclampsia during pregnancy and postpartum. *Journal of Hypertension*, **2018**, 36, 319-325	1.9	1
116	Inhibition of PAI (Plasminogen Activator Inhibitor)-1 Improves Brain Collateral Perfusion and Injury After Acute Ischemic Stroke in Aged Hypertensive Rats. *Stroke*, **2018**, 49, 1969-1976	6.7	24
115	Abstract 79: Chronic and Acute Hypertension in Ischemic Stroke Are Distinct Markers of Impaired Collateral Circulation. *Stroke*, **2018**, 49,	6.7	3
114	Implications for understanding ischemic stroke as a sexually dimorphic disease: the role of pial collateral circulations. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 315, H1703-H1712	5.2	5
113	The importance of comorbidities in ischemic stroke: Impact of hypertension on the cerebral circulation. *Journal of Cerebral Blood Flow and Metabolism*, **2018**, 38, 2129-2149	7.3	79
112	Effect of hypertension and peroxynitrite decomposition with FeTMPyP on CBF and stroke outcome. *Journal of Cerebral Blood Flow and Metabolism*, **2017**, 37, 1276-1285	7.3	16
111	Translational Stroke Research: Vision and Opportunities. *Stroke*, **2017**, 48, 2632-2637	6.7	62
110	Treatment with low dose fasudil for acute ischemic stroke in chronic hypertension. *Journal of Cerebral Blood Flow and Metabolism*, **2017**, 37, 3262-3270	7.3	5
109	Altered hippocampal arteriole structure and function in a rat model of preeclampsia: Potential role in impaired seizure-induced hyperemia. *Journal of Cerebral Blood Flow and Metabolism*, **2017**, 37, 2857-2869	7.3	19
108	"Small Blood Vessels: Big Health Problems?": Scientific Recommendations of the National Institutes of Health Workshop. *Journal of the American Heart Association*, **2016**, 5,	6	53
107	Pial Collateral Reactivity During Hypertension and Aging: Understanding the Function of Collaterals for Stroke Therapy. *Stroke*, **2016**, 47, 1618-25	6.7	51
106	The Importance of Considering Sex Differences in Translational Stroke Research. *Translational Stroke Research*, **2016**, 7, 261-73	7.8	58
105	Effects of Acute Stroke Serum on Non-Ischemic Cerebral and Mesenteric Vascular Function. *Translational Stroke Research*, **2016**, 7, 156-65	7.8	5
104	Ovarian kisspeptin expression is related to age and to monocyte chemoattractant protein-1. *Journal of Assisted Reproduction and Genetics*, **2016**, 33, 535-43	3.4	13
103	Ondansetron-related hemorrhagic posterior reversible encephalopathy syndrome (PRES) following gastric bypass. *SpringerPlus*, **2016**, 5, 18		3
102	Improving Reperfusion Therapies in the Era of Mechanical Thrombectomy. *Translational Stroke Research*, **2016**, 7, 294-302	7.8	37

101	Effects of Early Post-Ischemic Reperfusion and tPA on Cerebrovascular Function and Nitrosative Stress in Female Rats. *Translational Stroke Research*, **2016**, 7, 228-38	7.8	20
100	The Cerebral Circulation, Second Edition. *Colloquium Series on Integrated Systems Physiology From Molecule To Function*, **2016**, 8, 1-80		5
99	Cerebrovascular Dysfunction in Preeclamptic Pregnancies. *Current Hypertension Reports*, **2015**, 17, 64	4.7	56
98	Plasma from patients with HELLP syndrome increases blood-brain barrier permeability. *Reproductive Sciences*, **2015**, 22, 278-84	3	10
97	The cerebral circulation during pregnancy: adapting to preserve normalcy. *Physiology*, **2015**, 30, 139-47	9.8	24
96	Cerebrovascular Pathophysiology in Preeclampsia and Eclampsia **2015**, 269-290		
95	The Contribution of Normal Pregnancy to Eclampsia. *PLoS ONE*, **2015**, 10, e0133953	3.7	21
94	Effect of hypertension and carotid occlusion on brain parenchymal arteriole structure and reactivity. *Journal of Applied Physiology*, **2015**, 119, 817-23	3.7	13
93	Conducted Vasodilation in Brain Parenchymal Arterioles is Impaired during Chronic Hypertension. *FASEB Journal*, **2015**, 29, 949.7	0.9	2
92	Vitamin D alters genes involved in follicular development and steroidogenesis in human cumulus granulosa cells. *Journal of Clinical Endocrinology and Metabolism*, **2014**, 99, E1137-45	5.6	113
91	Magnesium sulfate treatment reverses seizure susceptibility and decreases neuroinflammation in a rat model of severe preeclampsia. *PLoS ONE*, **2014**, 9, e113670	3.7	66
90	Increased pressure-induced tone in rat parenchymal arterioles vs. middle cerebral arteries: role of ion channels and calcium sensitivity. *Journal of Applied Physiology*, **2014**, 117, 53-9	3.7	31
89	Cerebrovascular dysfunction and blood-brain barrier permeability induced by oxidized LDL are prevented by apocynin and magnesium sulfate in female rats. *Journal of Cardiovascular Pharmacology*, **2014**, 63, 33-9	3.1	32
88	Postischemic reperfusion causes smooth muscle calcium sensitization and vasoconstriction of parenchymal arterioles. *Stroke*, **2014**, 45, 2425-30	6.7	39
87	Myogenic tone as a therapeutic target for ischemic stroke. *Current Vascular Pharmacology*, **2014**, 12, 788-800	3.3	15
86	The effect of experimental preeclampsia on cerebral blood flow autoregulation and cerebrovascular function (680.22). *FASEB Journal*, **2014**, 28, 680.22	0.9	
85	Increased oxidized low-density lipoprotein causes blood-brain barrier disruption in early-onset preeclampsia through LOX-1. *FASEB Journal*, **2013**, 27, 1254-63	0.9	49
84	The adaptation of the cerebral circulation to pregnancy: mechanisms and consequences. *Journal of Cerebral Blood Flow and Metabolism*, **2013**, 33, 465-78	7.3	44

83	Pregnancy causes diminished myogenic tone and outward hypotrophic remodeling of the cerebral vein of Galen. *Journal of Cerebral Blood Flow and Metabolism*, **2013**, 33, 542-9	7.3	9
82	Inhibition of PPAR during rat pregnancy causes intrauterine growth restriction and attenuation of uterine vasodilation. *Frontiers in Physiology*, **2013**, 4, 184	4.6	17
81	Mechanisms of enhanced basal tone of brain parenchymal arterioles during early postischemic reperfusion: role of ET-1-induced peroxynitrite generation. *Journal of Cerebral Blood Flow and Metabolism*, **2013**, 33, 1486-92	7.3	33
80	Treatment for cerebral small vessel disease: effect of relaxin on the function and structure of cerebral parenchymal arterioles during hypertension. *FASEB Journal*, **2013**, 27, 3917-27	0.9	44
79	Effect of pregnancy and nitric oxide on the myogenic vasodilation of posterior cerebral arteries and the lower limit of cerebral blood flow autoregulation. *Reproductive Sciences*, **2013**, 20, 1046-54	3	17
78	Pregnancy enhances the effects of hypercholesterolemia on posterior cerebral arteries. *Reproductive Sciences*, **2013**, 20, 391-9	3	10
77	Acute rosiglitazone treatment during reperfusion after hyperglycemic stroke is neuroprotective not vascular protective. *Translational Stroke Research*, **2012**, 3, 390-6	7.8	3
76	Determination of PPAR activity in adipose tissue and spleen. *Journal of Immunoassay and Immunochemistry*, **2012**, 33, 314-24	1.8	3
75	Pregnant serum induces neuroinflammation and seizure activity via TNF *Experimental Neurology*, **2012**, 234, 398-404	5.7	38
74	Peroxynitrite decomposition with FeTMPyP improves plasma-induced vascular dysfunction and infarction during mild but not severe hyperglycemic stroke. *Journal of Cerebral Blood Flow and Metabolism*, **2012**, 32, 1035-45	7.3	26
73	The adaptation of the blood-brain barrier to vascular endothelial growth factor and placental growth factor during pregnancy. *FASEB Journal*, **2012**, 26, 355-62	0.9	43
72	Effect of pregnancy on autoregulation of cerebral blood flow in anterior versus posterior cerebrum. *Hypertension*, **2012**, 60, 705-11	8.5	41
71	Vascular Targets for Ischemic Stroke Treatment **2012**, 3-36		
70	Inhibition of protein kinase C reverses increased blood-brain barrier permeability during hyperglycemic stroke and prevents edema formation in vivo. *Stroke*, **2011**, 42, 3252-7	6.7	34
69	Seizures in Women with Preeclampsia: Mechanisms and Management. *Fetal and Maternal Medicine Review*, **2011**, 22, 91-108		28
68	Cerebral vascular adaptation to pregnancy and its role in the neurological complications of eclampsia. *Journal of Applied Physiology*, **2011**, 110, 329-39	3.7	76
67	Differential effects of low-dose endotoxin on the cerebral circulation during pregnancy. *Reproductive Sciences*, **2011**, 18, 1211-21	3	12
66	Relaxin causes selective outward remodeling of brain parenchymal arterioles via activation of peroxisome proliferator-activated receptor- *FASEB Journal*, **2011**, 25, 3229-39	0.9	44

65	Vascular Protection Following Cerebral Ischemia and Reperfusion. *Journal of Neurology & Neurophysiology*, **2011**, 2011,	0.5	35
64	Effect of plasma on vessel tone and endothelial function. *FASEB Journal*, **2011**, 25, 1024.12	0.9	
63	Effect of circulating factors on cerebral artery function during hyperglycemic stroke. *FASEB Journal* , **2011**, 25, 1024.6	0.9	1
62	Effect of PPAR inhibition during pregnancy on posterior cerebral artery function and structure. *Frontiers in Physiology*, **2010**, 1, 130	4.6	20
61	Resistance artery adaptation to pregnancy counteracts the vasoconstricting influence of plasma from normal pregnant women. *Reproductive Sciences*, **2010**, 17, 29-39	3	12
60	Plasma from preeclamptic women increases blood-brain barrier permeability: role of vascular endothelial growth factor signaling. *Hypertension*, **2010**, 56, 1003-8	8.5	83
59	PPAR{gamma} activation prevents hypertensive remodeling of cerebral arteries and improves vascular function in female rats. *Stroke*, **2010**, 41, 1266-70	6.7	40
58	Effect of hyperglycemia on brain penetrating arterioles and cerebral blood flow before and after ischemia/reperfusion. *Translational Stroke Research*, **2010**, 1, 127-34	7.8	25
57	Inhibition of PPAR during pregnancy causes inward remodeling of brain parenchymal arterioles. *FASEB Journal*, **2010**, 24, 979.4	0.9	1
56	In P14 rat middle cerebral arteries relations between myogenic tone and cytosolic Ca++ are enhanced by myofilament Ca++ sensitization and increased Ca++ influx, but attenuated by high proportions of non-contractile smooth muscle cells.. *FASEB Journal*, **2010**, 24, 980.7	0.9	
55	SKCa and IKCa Channels, myogenic tone, and vasodilator responses in middle cerebral arteries and parenchymal arterioles: effect of ischemia and reperfusion. *Stroke*, **2009**, 40, 1451-7	6.7	108
54	PPAR-gamma agonist rosiglitazone reverses increased cerebral venous hydraulic conductivity during hypertension. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 297, H1347-53	5.2	23
53	The effect of ovariectomy and estrogen on penetrating brain arterioles and blood-brain barrier permeability. *Microcirculation*, **2009**, 16, 685-93	2.9	37
52	The Cerebral Circulation. *Colloquium Series on Integrated Systems Physiology From Molecule To Function*, **2009**, 1, 1-59		94
51	Cerebrovascular (Patho)Physiology in Preeclampsia/Eclampsia **2009**, 227-247		8
50	Magnesium sulfate for the treatment of eclampsia: a brief review. *Stroke*, **2009**, 40, 1169-75	6.7	186
49	Hyperglycemia increases myogenic tone and the dilatory effects of peroxynitrite (ONOO-) in cerebral arteries: Role of nitrotyrosine (NT) and reactive oxygen species (ROS). *FASEB Journal*, **2009** , 23, 613.8	0.9	
48	PPAR activation reverses hypertensive remodeling of cerebral arteries. *FASEB Journal*, **2009**, 23, 613.34	0.9	

47	Magnesium sulphate treatment decreases blood-brain barrier permeability during acute hypertension in pregnant rats. *Experimental Physiology*, **2008**, 93, 254-61	2.4	36
46	Regional expression of aquaporin 1, 4, and 9 in the brain during pregnancy. *Reproductive Sciences*, **2008**, 15, 506-16	3	13
45	HAEMODYNAMIC CONTRIBUTIONS TO THE PATHOGENESIS OF PREECLAMPSIA AND ECLAMPSIA. *Fetal and Maternal Medicine Review*, **2008**, 19, 85-104		2
44	The influence of pregnancy and gender on perivascular innervation of rat posterior cerebral arteries. *Reproductive Sciences*, **2008**, 15, 411-9	3	13
43	Pregnancy reverses hypertensive remodeling of cerebral arteries. *Hypertension*, **2008**, 51, 1052-7	8.5	30
42	Reactivity of brain parenchymal arterioles after ischemia and reperfusion. *Microcirculation*, **2008**, 15, 495-501	2.9	44
41	Pregnancy Decreases Myogenic Activity of Brain Parenchymal Arterioles: Role of Estrogen. *FASEB Journal*, **2008**, 22,	0.9	2
40	Early cerebrovascular and parenchymal events following prenatal exposure to the putative neurotoxin methylazoxymethanol. *Neurobiology of Disease*, **2007**, 26, 481-95	7.5	21
39	Cerebrovascular function in pregnancy and eclampsia. *Hypertension*, **2007**, 50, 14-24	8.5	141
38	Cerebral blood flow autoregulation and edema formation during pregnancy in anesthetized rats. *Hypertension*, **2007**, 49, 334-40	8.5	70
37	Pregnancy prevents hypertensive remodeling and decreases myogenic reactivity in posterior cerebral arteries from Dahl salt-sensitive rats: a role in eclampsia?. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 292, H1071-6	5.2	25
36	Pregnancy increases perivascular trigeminal innervation of cerebral arteries without changing reactivity to calcitonin gene-related peptide (CGRP). *FASEB Journal*, **2007**, 21, A1385	0.9	
35	Pregnancy prevents hypertensive remodeling of cerebral arteries: a potential role in the development of eclampsia. *Hypertension*, **2006**, 47, 619-26	8.5	42
34	Peroxynitrite diminishes myogenic activity and is associated with decreased vascular smooth muscle F-actin in rat posterior cerebral arteries. *Stroke*, **2006**, 37, 894-9	6.7	57
33	Fibroblast spreading induced by connective tissue stretch involves intracellular redistribution of alpha- and beta-actin. *Histochemistry and Cell Biology*, **2006**, 125, 487-95	2.4	48
32	Peroxynitrite (ONOO⁻) Diminishes Myogenic Activity and is Associated with Decreased Vascular Smooth Muscle (VSM) Filamentous (F-) actin in Rat Posterior Cerebral Arteries (PCA). *FASEB Journal* , **2006**, 20, A296	0.9	
31	Effect of estrogen therapy on cerebral arteries during stroke in female rats. *Menopause*, **2005**, 12, 99-109	2.5	6
30	Arterial wall hyperplasia is increased in placental compared with myoendometrial radial uterine arteries from late-pregnant rats. *American Journal of Obstetrics and Gynecology*, **2005**, 192, 302-8	6.4	7

29	Resistance artery vasodilation to magnesium sulfate during pregnancy and the postpartum state. *American Journal of Physiology - Heart and Circulatory Physiology*, **2005**, 288, H1521-5	5.2	32
28	Pregnancy-induced up-regulation of aquaporin-4 protein in brain and its role in eclampsia. *FASEB Journal*, **2005**, 19, 170-5	0.9	48
27	The cerebral endothelium during pregnancy: a potential role in the development of eclampsia. *Endothelium: Journal of Endothelial Cell Research*, **2005**, 12, 5-9		10
26	Hyperglycemia increases protein kinase C (PKC) activity and myogenic tone of penetrating brain parenchymal arterioles and is associated with diminished postischemic reperfusion and enhanced infarction. *Journal of Cerebral Blood Flow and Metabolism*, **2005**, 25, S28-S28	7.3	
25	Transcellular transport as a mechanism of blood-brain barrier disruption during stroke. *Frontiers in Bioscience - Landmark*, **2004**, 9, 777-85	2.8	92
24	Cerebral artery reactivity changes during pregnancy and the postpartum period: a role in eclampsia?. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 286, H2127-32	5.2	39
23	Mechanical properties of rat middle cerebral arteries with and without myogenic tone. *Journal of Biomechanical Engineering*, **2004**, 126, 76-81	2.1	18
22	Perivascular innervation of penetrating brain parenchymal arterioles. *Journal of Cardiovascular Pharmacology*, **2004**, 44, 1-8	3.1	71
21	Effects of ischemia and myogenic activity on active and passive mechanical properties of rat cerebral arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **2002**, 283, H2268-75	5.2	34
20	Pressure-induced actin polymerization in vascular smooth muscle as a mechanism underlying myogenic behavior. *FASEB Journal*, **2002**, 16, 72-6	0.9	252
19	Middle cerebral artery function after stroke: the threshold duration of reperfusion for myogenic activity. *Stroke*, **2002**, 33, 2094-9	6.7	74
18	Threshold duration of ischemia for myogenic tone in middle cerebral arteries: effect on vascular smooth muscle actin. *Stroke*, **2001**, 32, 1658-64	6.7	60
17	Efficacy of antioxidant therapies in transient focal ischemia in mice. *Stroke*, **2001**, 32, 1000-4	6.7	116
16	Mechanical signaling through connective tissue: a mechanism for the therapeutic effect of acupuncture. *FASEB Journal*, **2001**, 15, 2275-82	0.9	322
15	Postischemic attenuation of cerebral artery reactivity is increased in the presence of tissue plasminogen activator. *Stroke*, **2000**, 31, 940-5	6.7	42
14	High resolution imaged laser speckle strain gauge for vascular applications. *Journal of Biomedical Optics*, **2000**, 5, 62-71	3.5	19
13	The effect of elevated homocysteine levels on adrenergic vasoconstriction of human resistance arteries: the role of the endothelium and reactive oxygen species. *Journal of Vascular Surgery*, **2000**, 31, 751-9	3.5	15
12	Propionyl-L-carnitine dilates human subcutaneous arteries through an endothelium-dependent mechanism. *Journal of Vascular Surgery*, **1999**, 29, 1097-103	3.5	51

11	Elevated glucose potentiates contraction of isolated rat resistance arteries and augments protein kinase C-induced intracellular calcium release. *Metabolism: Clinical and Experimental*, **1999**, 48, 1015-22	12.7	9
10	Vascular smooth muscle actin cytoskeleton in cerebral artery forced dilatation. *Stroke*, **1998**, 29, 1223-8	6.7	72
9	Myoendometrial versus placental uterine arteries: structural, mechanical, and functional differences in late-pregnant rabbits. *American Journal of Obstetrics and Gynecology*, **1997**, 177, 215-21	6.4	45
8	Reperfusion decreases myogenic reactivity and alters middle cerebral artery function after focal cerebral ischemia in rats. *Stroke*, **1997**, 28, 176-80	6.7	89
7	High glucose concentrations dilate cerebral arteries and diminish myogenic tone through an endothelial mechanism. *Stroke*, **1997**, 28, 405-10; discussion 410-1	6.7	61
6	Endothelial function and adrenergic reactivity in human type-II diabetic resistance arteries. *Journal of Vascular Surgery*, **1996**, 23, 940-9	3.5	32
5	Hypertrophic and hyperplastic effects of pregnancy on the rat uterine arterial wall. *American Journal of Obstetrics and Gynecology*, **1994**, 171, 805-11	6.4	86
4	Pregnancy-induced changes in the three-dimensional mechanical properties of pressurized rat uteroplacental (radial) arteries. *American Journal of Obstetrics and Gynecology*, **1993**, 168, 268-74	6.4	89
3	Interaction of myogenic and adrenergic mechanisms in isolated, pressurized uterine radial arteries from late-pregnant and nonpregnant rats. *American Journal of Obstetrics and Gynecology*, **1993**, 168, 697-705	6.4	60
2	A new method for mechanically denuding the endothelium of small (50-150 microns) arteries with a human hair. *Journal of Vascular Research*, **1989**, 26, 320-4	1.9	17
1	Stroke and the Blood-Brain Interface619-647		1