William J Pearce

List of Publications by Citations

205 papers	3,977 citations	32 h-index	52 g-index
217 ext. papers	4,334 ext. citations	4 avg, IF	5.26 L-index

#	Paper	IF	Citations
205	Endothelial cilia are fluid shear sensors that regulate calcium signaling and nitric oxide production through polycystin-1. *Circulation*, **2008**, 117, 1161-71	16.7	332
204	Core and Penumbral Nitric Oxide Synthase Activity During Cerebral Ischemia and Reperfusion. *Stroke*, **1998**, 29, 1037-1047	6.7	222
203	The vascular neural network--a new paradigm in stroke pathophysiology. *Nature Reviews Neurology*, **2012**, 8, 711-6	15	143
202	Neonatal familial type II hyperlipoproteinemia: cord blood cholesterol in 1800 births. *Metabolism: Clinical and Experimental*, **1971**, 20, 597-608	12.7	134
201	Hypoxic regulation of the fetal cerebral circulation. *Journal of Applied Physiology*, **2006**, 100, 731-8	3.7	89
200	Core and penumbral nitric oxide synthase activity during cerebral ischemia and reperfusion. *Stroke*, **1998**, 29, 1037-46; discussion 1047	6.7	84
199	Gestational Hypoxia and Developmental Plasticity. *Physiological Reviews*, **2018**, 98, 1241-1334	47.9	70
198	Chronic cerebrovascular dysfunction after traumatic brain injury. *Journal of Neuroscience Research*, **2016**, 94, 609-22	4.4	70
197	Mechanisms of hypoxic cerebral vasodilatation **1995**, 65, 75-91		65
196	Low dose L-NAME reduces infarct volume in the rat MCAO/reperfusion model. *Journal of Neurosurgical Anesthesiology*, **1993**, 5, 241-9	3	65
195	Animal models of neonatal stroke. *Current Opinion in Pediatrics*, **2001**, 13, 506-16	3.2	59
194	A new model of neonatal stroke: reversible middle cerebral artery occlusion in the rat pup. *Pediatric Neurology*, **1995**, 12, 191-6	2.9	58
193	L-NAME reduces infarct volume in a filament model of transient middle cerebral artery occlusion in the rat pup. *Pediatric Research*, **1995**, 38, 652-6	3.2	52
192	Developmental changes in ovine cerebral artery composition and reactivity. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **1991**, 261, R458-65	3.2	50
191	Role of nitric oxide in hypoxic cerebral vasodilatation in the ovine fetus. *Journal of Physiology*, **2003**, 549, 625-33	3.9	46
190	Fetal cerebrovascular acclimatization responses to high-altitude, long-term hypoxia: a model for prenatal programming of adult disease?. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2005**, 288, R16-24	3.2	46
189	Recombinant Osteopontin Stabilizes Smooth Muscle Cell Phenotype via Integrin Receptor/Integrin-Linked Kinase/Rac-1 Pathway After Subarachnoid Hemorrhage in Rats. *Stroke*, **2016**, 47, 1319-27	6.7	43

188	MRI assessment of ischemic liver after intraportal islet transplantation. *Transplantation*, **2009**, 87, 825-30	1.8	41
187	Age-dependent changes in Ca2+ homeostasis in peripheral neurones: implications for changes in function. *Aging Cell*, **2007**, 6, 285-96	9.9	39
186	Use of opioids in asphyxiated term neonates: effects on neuroimaging and clinical outcome. *Pediatric Research*, **2005**, 57, 873-8	3.2	39
185	Cerebrovascular adaptations to high-altitude hypoxemia in fetal and adult sheep. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **1993**, 264, R65-72	3.2	39
184	Effect of maternal undernutrition on vascular expression of micro and messenger RNA in newborn and aging offspring. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2010**, 298, R1366-74	3.2	38
183	miR-29c induction contributes to downregulation of vascular extracellular matrix proteins by glucocorticoids. *American Journal of Physiology - Cell Physiology*, **2015**, 309, C117-25	5.4	37
182	Core and penumbral nitric oxide synthase activity during cerebral ischemia and reperfusion in the rat pup. *Pediatric Research*, **1999**, 46, 390-400	3.2	37
181	Traumatic brain injury results in acute rarefication of the vascular network. *Scientific Reports*, **2017**, 7, 239	4.9	36
180	Role of PDGF-D and PDGFR-β in neuroinflammation in experimental ICH mice model. *Experimental Neurology*, **2016**, 283, 157-64	5.7	34
179	Endothelial nitric oxide release in isolated perfused ovine uterine arteries: effect of pregnancy. *European Journal of Pharmacology*, **1999**, 367, 223-30	5.3	34
178	Endothelium-derived relaxing factor and cyclic GMP-dependent vasorelaxation in human chorionic plate arteries. *Placenta*, **1994**, 15, 365-75	3.4	34
177	Regulation of Ca2+ sensitization by PKC and rho proteins in ovine cerebral arteries: effects of artery size and age. *American Journal of Physiology - Heart and Circulatory Physiology*, **1998**, 275, H930-9	5.2	33
176	The electroencephalogram, blood flow, and oxygen uptake in rabbit cerebrum. *Journal of Cerebral Blood Flow and Metabolism*, **1981**, 1, 419-28	7.3	33
175	Male and Female Mice Exhibit Divergent Responses of the Cortical Vasculature to Traumatic Brain Injury. *Journal of Neurotrauma*, **2018**, 35, 1646-1658	5.4	32
174	Age-dependent modulation of endothelium-dependent vasodilatation by chronic hypoxia in ovine cranial arteries. *Journal of Applied Physiology*, **2006**, 100, 225-32	3.7	32
173	In vivo imaging demonstrates a time-line for new vessel formation in islet transplantation. *Pediatric Transplantation*, **2009**, 13, 892-7	1.8	31
172	High altitude, hypoxic-induced modulation of noradrenergic-mediated responses in fetal and adult cerebral arteries. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **1998**, 119, 683-94	2.6	31
171	Maturation depresses cGMP-mediated decreases in [Ca2+]i and Ca2+ sensitivity in ovine cranial arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **2001**, 280, H1019-28	5.2	30

170	Maturation alters the contractile role of calcium in ovine basilar arteries. *Pediatric Research*, **1998**, 44, 154-60	3.2	30
169	PDGFR-β modulates vascular smooth muscle cell phenotype via IRF-9/SIRT-1/NF-κB pathway in subarachnoid hemorrhage rats. *Journal of Cerebral Blood Flow and Metabolism*, **2019**, 39, 1369-1380	7.3	30
168	Fetal cardiac and cerebrovascular acclimatization responses to high altitude, long-term hypoxia. *High Altitude Medicine and Biology*, **2003**, 4, 203-13	1.9	29
167	Pregnancy enhances endothelium-dependent relaxation of ovine uterine artery: role of NO and intracellular Ca(2+). *American Journal of Physiology - Heart and Circulatory Physiology*, **2001**, 281, H183-90	5.2	29
166	Developmental changes in ryanodine- and IP(3)-sensitive Ca(2+) pools in ovine basilar artery. *American Journal of Physiology - Cell Physiology*, **2001**, 281, C1785-96	5.4	28
165	Maturational modulation of endothelium-dependent vasodilatation in ovine cerebral arteries. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2005**, 288, R149-57	3.2	27
164	Ca2+-activated K+ channel-associated phosphatase and kinase activities during development. *American Journal of Physiology - Heart and Circulatory Physiology*, **2005**, 289, H414-25	5.2	27
163	Developmental differences in Ca2+-activated K+ channel activity in ovine basilar artery. *American Journal of Physiology - Heart and Circulatory Physiology*, **2003**, 285, H701-9	5.2	26
162	Maturation enhances the sensitivity of ovine cerebral arteries to the ATP-sensitive potassium channel activator lemakalim. *Pediatric Research*, **1994**, 35, 729-32	3.2	26
161	Effects of maturation on cyclic GMP-dependent vasodilation in ovine basilar and carotid arteries. *Pediatric Research*, **1994**, 36, 25-33	3.2	26
160	Inhibition of stress fiber formation preserves blood-brain barrier after intracerebral hemorrhage in mice. *Journal of Cerebral Blood Flow and Metabolism*, **2018**, 38, 87-102	7.3	25
159	Long-term maternal hypoxia: the role of extracellular Ca2+ entry during serotonin-mediated contractility in fetal ovine pulmonary arteries. *Reproductive Sciences*, **2011**, 18, 948-62	3	25
158	The use of Gore-Tex E-PTFE bonded to silicone rubber as an alloplastic implant material. *Laryngoscope*, **1986**, 96, 480-3	3.6	25
157	Developmental changes in thickness, contractility, and hypoxic sensitivity of newborn lamb cerebral arteries. *Pediatric Research*, **1987**, 22, 192-6	3.2	25
156	Chronic hypoxia and VEGF differentially modulate abundance and organization of myosin heavy chain isoforms in fetal and adult ovine arteries. *American Journal of Physiology - Cell Physiology*, **2012**, 303, C1090-103	5.4	24
155	Modulation of BK channel calcium affinity by differential phosphorylation in developing ovine basilar artery myocytes. *American Journal of Physiology - Heart and Circulatory Physiology*, **2006**, 291, H732-40	5.2	24
154	Effects of maturation, artery size, and chronic hypoxia on 5-HT receptor type in ovine cranial arteries. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **1998**, 275, R742-53	3.2	24
153	Developmental changes in alpha 1-adrenergic receptors, IP3 responses, and NE-induced contraction in cerebral arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **1996**, 271, H2313-9	5.2	24

152	ERK-mediated uterine artery contraction: role of thick and thin filament regulatory pathways. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 286, H1615-22	5.2	23
151	Chronic hypoxia modulates relations among calcium, myosin light chain phosphorylation, and force differently in fetal and adult ovine basilar arteries. *Journal of Applied Physiology*, **2005**, 99, 120-7	3.7	23
150	Effects of nitric oxide and GABA interaction within ventrolateral medulla on cardiovascular responses during static muscle contraction. *Brain Research*, **2001**, 922, 234-42	3.7	23
149	Up-regulation of Wnt/β-catenin expression is accompanied with vascular repair after traumatic brain injury. *Journal of Cerebral Blood Flow and Metabolism*, **2018**, 38, 274-289	7.3	23
148	Physiological variations in ovine cerebrovascular calcium sensitivity. *American Journal of Physiology - Heart and Circulatory Physiology*, **1997**, 272, H2271-81	5.2	21
147	Chronic hypoxia alters the function of NOS nerves in cerebral arteries of near-term fetal and adult sheep. *Journal of Applied Physiology*, **2003**, 94, 724-32	3.7	21
146	Maturation depresses mouse cerebrovascular tone through endothelium-dependent mechanisms. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2003**, 284, R734-41	3.2	21
145	NE-induced contraction, alpha 1-adrenergic receptors, and Ins(1,4,5)P3 responses in cerebral arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **1996**, 270, H915-23	5.2	21
144	Vascular smooth muscle cells direct extracellular dysregulation in aortic stiffening of hypertensive rats. *Aging Cell*, **2018**, 17, e12748	9.9	20
143	Chronic hypoxic decreases in soluble guanylate cyclase protein and enzyme activity are age dependent in fetal and adult ovine carotid arteries. *Journal of Applied Physiology*, **2006**, 100, 1857-66	3.7	20
142	Developmental changes in the calcium sensitivity of rabbit cranial arteries. *Neonatology*, **1998**, 74, 60-714		20
141	Maturation modulates serotonin- and potassium-induced calcium-45 uptake in ovine carotid and cerebral arteries. *Pediatric Research*, **1995**, 38, 493-500	3.2	20
140	Hemorrhage-induced cerebral vasoconstriction in dogs. *Stroke*, **1980**, 11, 190-7	6.7	20
139	Developmental aspects of endothelial function. *Seminars in Perinatology*, **1991**, 15, 40-8	3.3	20
138	Effects of maturation on cell water, protein, and DNA content in ovine cerebral arteries. *Journal of Applied Physiology*, **1995**, 79, 831-7	3.7	19
137	Effect of chronic hypoxia on alpha-1 adrenoceptor-mediated inositol 1,4,5-trisphosphate signaling in ovine uterine artery. *Journal of Pharmacology and Experimental Therapeutics*, **1999**, 288, 977-83	4.7	19
136	Maternal food restriction modulates cerebrovascular structure and contractility in adult rat offspring: effects of metyrapone. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2014**, 306, R401-10	3.2	18
135	Effects of chronic hypoxia on soluble guanylate cyclase activity in fetal and adult ovine cerebral arteries. *Journal of Applied Physiology*, **2009**, 107, 192-9	3.7	18

134	Advancing age alters rapid and spontaneous refilling of caffeine-sensitive calcium stores in sympathetic superior cervical ganglion cells. *Journal of Applied Physiology*, **2005**, 99, 963-71	3.7	18
133	Differential cerebrovascular and metabolic responses in specific neural systems elicited from the centromedian-parafascicular complex. *Neuroscience*, **1992**, 49, 451-66	3.9	18
132	Effects of methylene blue on hypoxic cerebral vasodilatation in the rabbit. *Journal of Pharmacology and Experimental Therapeutics*, **1990**, 254, 616-25	4.7	18
131	Contribution of increased VEGF receptors to hypoxic changes in fetal ovine carotid artery contractile proteins. *American Journal of Physiology - Cell Physiology*, **2013**, 304, C656-65	5.4	17
130	Advancing age alters the expression of the ryanodine receptor 3 isoform in adult rat superior cervical ganglia. *Journal of Applied Physiology*, **2006**, 101, 392-400	3.7	17
129	Acute hypoxia modulates 5-HT receptor density and agonist affinity in fetal and adult ovine carotid arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **2000**, 279, H502-10	5.2	17
128	Hypoxia inhibits calcium influx in rabbit basilar and carotid arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **1992**, 262, H106-13	5.2	17
127	Effect of cortisol on norepinephrine-mediated contractions in ovine uterine arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **2003**, 284, H1142-51	5.2	16
126	Maturation alters the contribution of potassium channels to resting and 5HT-induced tone in small cerebral arteries of the sheep. *Developmental Brain Research*, **2002**, 133, 81-91		16
125	Maturation enhances fluid shear-induced activation of eNOS in perfused ovine carotid arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **2005**, 289, H2220-7	5.2	16
124	Ca2+ Sensitivity of Fetal Coronary Arteries Exposed to Long-Term, High-Altitude Hypoxia. *Journal of the Society for Gynecologic Investigation*, **2000**, 7, 161-166		16
123	Direct effects of graded hypoxia on intact and denuded rabbit cranial arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **1989**, 257, H824-33	5.2	16
122	Platelet-Derived Growth Factor Receptor-Regulates Vascular Smooth Muscle Cell Phenotypic Transformation and Neuroinflammation After Intracerebral Hemorrhage in Mice. *Critical Care Medicine*, **2016**, 44, e390-402	1.4	15
121	Endothelial glucocorticoid receptor promoter methylation according to dexamethasone sensitivity. *Journal of Molecular Endocrinology*, **2015**, 55, 133-46	4.5	15
120	Excess maternal glucocorticoids in response to in utero undernutrition inhibit offspring angiogenesis. *Reproductive Sciences*, **2014**, 21, 601-11	3	15
119	Maturation and differentiation of the fetal vasculature. *Clinical Obstetrics and Gynecology*, **2013**, 56, 537-48	1.7	15
118	Contributions of VEGF to age-dependent transmural gradients in contractile protein expression in ovine carotid arteries. *American Journal of Physiology - Cell Physiology*, **2011**, 301, C653-66	5.4	15
117	Roles of cytosolic Ca2+ concentration and myofilament Ca2+ sensitization in age-dependent cerebrovascular myogenic tone. *American Journal of Physiology - Heart and Circulatory Physiology*, **2010**, 299, H1034-44	5.2	15

116	Cardiac beta-adrenergic receptor function in fetal sheep exposed to long-term high-altitude hypoxemia. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **1997**, 273, R2022-31	3.2	15
115	Maximal stimulation-induced in situ myosin light chain kinase activity is upregulated in fetal compared with adult ovine carotid arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **2008**, 295, H2289-98	5.2	15
114	Postnatal maturation modulates relationships among cytosolic Ca2+, myosin light chain phosphorylation, and contractile tone in ovine cerebral arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 293, H2183-92	5.2	15
113	Expression of several cytoskeletal proteins in ovine cerebral arteries: developmental and functional considerations. *Journal of Physiology*, **2004**, 558, 623-32	3.9	15
112	Simultaneous glutamate and gamma-aminobutyric acid release within ventrolateral medulla during skeletal muscle contraction in intact and barodenervated rats. *Brain Research*, **2001**, 923, 137-46	3.7	15
111	Maturational differences in soluble guanylate cyclase activity in ovine carotid and cerebral arteries. *Pediatric Research*, **2000**, 47, 369-75	3.2	15
110	Vasotrophic regulation of age-dependent hypoxic cerebrovascular remodeling. *Current Vascular Pharmacology*, **2013**, 11, 544-63	3.3	15
109	MicroRNAs in brain development and cerebrovascular pathophysiology. *American Journal of Physiology - Cell Physiology*, **2019**, 317, C3-C19	5.4	14
108	Effects of maturation on adrenergic neurotransmission in ovine cerebral arteries. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **1999**, 277, R931-7	3.2	14
107	Effects of hypoxia on contractility of isolated fetal lamb cerebral arteries. *Journal of Developmental Physiology*, **1990**, 13, 199-203		14
106	Fetal cerebral oxygenation: the homeostatic role of vascular adaptations to hypoxic stress. *Advances in Experimental Medicine and Biology*, **2011**, 701, 225-32	3.6	14
105	ERK inhibition attenuates 5-HT-induced contractions in fetal and adult ovine carotid arteries. *Archives of Physiology and Biochemistry*, **2003**, 111, 36-44	2.2	13
104	Noradrenaline-mediated contractions of ovine uterine artery: role of inositol 1,4,5-trisphosphate. *European Journal of Pharmacology*, **1995**, 289, 375-82		13
103	Chronic hypoxia attenuates the vasodilator efficacy of protein kinase G in fetal and adult ovine cerebral arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **2017**, 313, H207-H219	5.2	12
102	VEGF receptors mediate hypoxic remodeling of adult ovine carotid arteries. *Journal of Applied Physiology*, **2014**, 117, 777-87	3.7	12
101	Long-term effects of maternal undernutrition on offspring carotid artery remodeling: role of miR-29c. *Journal of Developmental Origins of Health and Disease*, **2015**, 6, 342-9	2.4	12
100	Role of the sympathetic autonomic nervous system in hypoxic remodeling of the fetal cerebral vasculature. *Journal of Cardiovascular Pharmacology*, **2015**, 65, 308-16	3.1	12
99	Maturation attenuates the effects of cGMP on contraction, [Ca2+]i and Ca2+ sensitivity in ovine basilar arteries. *General Pharmacology*, **2000**, 35, 107-18		12

98	Effects of opioid receptor activation on cardiovascular responses and extracellular monoamines within the rostral ventrolateral medulla during static contraction of skeletal muscle. *Neuroscience Research*, **2001**, 41, 373-83	2.9	12
97	Effects of maturation and acute hypoxia on receptor-IP(3) coupling in ovine common carotid arteries. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2001**, 280, R410-7	3.2	12
96	Developmental acceleration of bradykinin-dependent relaxation by prenatal chronic hypoxia impedes normal development after birth. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2016**, 310, L271-86	5.8	11
95	Role of prostanoids in the regulation of cerebral blood flow during normoxia and hypoxia in the fetal sheep. *Pediatric Research*, **2006**, 60, 524-9	3.2	11
94	Postnatal maturation attenuates pressure-evoked myogenic tone and stretch-induced increases in Ca2+ in rat cerebral arteries. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2007**, 293, R737-44	3.2	11
93	Effects of maturation on cyclic GMP metabolism in ovine carotid arteries. *Pediatric Research*, **1996**, 39, 25-31	3.2	11
92	Chronic hypoxia modulates endothelium-dependent vasorelaxation through multiple independent mechanisms in ovine cranial arteries. *Advances in Experimental Medicine and Biology*, **2006**, 578, 87-92	3.6	11
91	Role of BCL2-associated athanogene 1 in differential sensitivity of human endothelial cells to glucocorticoids. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2013**, 33, 1046-55	9.4	10
90	Epigenetics: an expanding new piece of the stroke puzzle. *Translational Stroke Research*, **2011**, 2, 243-7	7.8	10
89	Regulation of baseline Ca2+ sensitivity in permeabilized uterine arteries: effect of pregnancy. *American Journal of Physiology - Heart and Circulatory Physiology*, **2006**, 291, H413-20	5.2	10
88	Maturation alters cyclic nucleotide and relaxation responses to nitric oxide donors in ovine cerebral arteries. *Neonatology*, **2003**, 83, 123-35	4	10
87	Effects of maturation on alpha-adrenergic receptor affinity and occupancy in small cerebral arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **1994**, 267, H757-63	5.2	10
86	Preservation of serotonin-mediated contractility in adult sheep pulmonary arteries following long-term high-altitude hypoxia. *High Altitude Medicine and Biology*, **2011**, 12, 253-64	1.9	9
85	Intracranial-extracranial differences in the Ca2+ sensitivity of rabbit arteries. *Experimental Biology and Medicine*, **1997**, 214, 76-82	3.7	9
84	Diltiazem and autoregulation of canine cerebral blood flow. *Journal of Pharmacology and Experimental Therapeutics*, **1987**, 242, 812-7	4.7	9
83	Fetal Cerebrovascular Maturation: Effects of Hypoxia. *Seminars in Pediatric Neurology*, **2018**, 28, 17-28	2.9	9
82	Acute intranasal osteopontin treatment in male rats following TBI increases the number of activated microglia but does not alter lesion characteristics. *Journal of Neuroscience Research*, **2020**, 98, 141-154	4.4	8
81	Recanalization, reperfusion, and recirculation in stroke. *Journal of Cerebral Blood Flow and Metabolism*, **2017**, 37, 3818-3823	7.3	8

80	Maturation and long-term hypoxia alters Ca2+-induced Ca2+ release in sheep cerebrovascular sympathetic neurons. *Journal of Applied Physiology*, **2009**, 107, 1223-34	3.7	8
79	Myogenic contractility is more dependent on myofilament calcium sensitization in term fetal than adult ovine cerebral arteries. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 293, H548-56	5.2	8
78	Maturational modification of hypoxic relaxation in ovine carotid and cerebral arteries: role of endothelium. *Neonatology*, **1998**, 74, 222-32	4	8
77	Imatinib attenuates cerebrovascular injury and phenotypic transformation after intracerebral hemorrhage in rats. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2016**, 311, R1093-R1104	3.2	8
76	Hypoxic depression of PKG-mediated inhibition of serotonergic contraction in ovine carotid arteries. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2013**, 304, R734-43	3.2	7
75	Chronic hypoxia alters fetal cerebrovascular responses to endothelin-1. *American Journal of Physiology - Cell Physiology*, **2017**, 313, C207-C218	5.4	7
74	Cardiovascular responses during stimulation of hindlimb skeletal muscle nerves in anaesthetized rats. *Clinical and Experimental Pharmacology and Physiology*, **2002**, 29, 689-95	3	6
73	Pregnancy-induced changes in ovine cerebral arteries. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **1992**, 262, R137-43	3.2	6
72	Specialization in cerebral and extracerebral neurovascular mechanisms. *Federation Proceedings*, **1981**, 40, 2301-5		6
71	Vitamin D status and metabolism in an ovine pregnancy model: effect of long-term, high-altitude hypoxia. *American Journal of Physiology - Endocrinology and Metabolism*, **2016**, 310, E1062-71	6	6
70	A Novel Technique for Visualizing and Analyzing the Cerebral Vasculature in Rodents. *Translational Stroke Research*, **2018**, 10, 216	7.8	5
69	Mechanisms of platelet-induced angiospastic reactions: potentiation of calcium sensitivity. *Canadian Journal of Physiology and Pharmacology*, **1997**, 75, 849-852	2.4	5
68	Modulation of pressor response to muscle contraction via monoamines following AMPA-receptor blockade in the ventrolateral medulla. *Pharmacological Research*, **2001**, 44, 481-9	10.2	5
67	Long-term hypoxia uncouples Ca and eNOS in bradykinin-mediated pulmonary arterial relaxation. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2018**, 314, R870-R882	3.2	4
66	Chronic Hypobaric Hypoxia Modulates Primary Cilia Differently in Adult and Fetal Ovine Kidneys. *Frontiers in Physiology*, **2017**, 8, 677	4.6	4
65	Maturation alters cerebral NOS kinetics in the spontaneously hypertensive rat. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **1997**, 273, R1367-73	3.2	4
64	Retroglenoid venoconstriction and its influence on canine intracranial venous pressures. *Journal of Cerebral Blood Flow and Metabolism*, **1984**, 4, 373-80	7.3	4
63	Fetal and newborn cerebral vascular responses and adaptations to hypoxia. *Seminars in Perinatology*, **1991**, 15, 49-57	3.3	4

62	Advancing age alters the contribution of calcium release from smooth endoplasmic reticulum stores in superior cervical ganglion cells. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2009**, 64, 34-44	6.4	3
61	Dexamethasone alters vascular reactivity by enhancing COX-related vasodilatation in fetal ovine carotids. *Neonatology*, **2006**, 90, 1-8	4	3
60	Effects of maturation on mechanisms of cGMP-induced cerebral vasodilatation. *Developmental Neuroscience*, **2001**, 23, 224-33	2.2	3
59	Hypoxia increases cGMP and decreases calcium uptake in rabbit cranial arteries. *Proceedings of the Western Pharmacology Society*, **1988**, 31, 125-8		3
58	SYMPATHETIC STIMULATION, CEREBRAL BLOOD FLOW AND THE ROLE OF EXTRACEREBRAL VENOCONSTRICTION **1981**, 269-278		3
57	Ca(2+) sensitivity of fetal coronary arteries exposed to long-term, high-altitude hypoxia. *Journal of the Society for Gynecologic Investigation*, **2000**, 7, 161-6		3
56	Hypoxic modulation of fetal vascular MLCK abundance, localization, and function. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2021**, 320, R1-R18	3.2	3
55	Effect of dopamine on vascular reactivity in near-term lamb carotids: role of the endothelium. *Biological Research for Nursing*, **2006**, 8, 97-103	2.6	2
54	Analytical diagnostic peritoneal lavage in the diagnosis of intra-abdominal injury. *Journal of Trauma* , **1985**, 25, 400-4		2
53	Maternal Undernutrition Modulates Neonatal Rat Cerebrovascular Structure, Function, and Vulnerability to Mild Hypoxic-Ischemic Injury via Corticosteroid-Dependent and -Independent Mechanisms. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	2
52	Acute Treatment With Gleevec Does Not Promote Early Vascular Recovery Following Intracerebral Hemorrhage in Adult Male Rats. *Frontiers in Neuroscience*, **2020**, 14, 46	5.1	1
51	Basic and translational neonatal neuroscience research: whither goest the future of physician-scientists?. *Journal of Perinatology*, **2006**, 26 Suppl 2, S23-9	3.1	1
50	Pregnancy alters cerebrovascular adaptation to high-altitude hypoxia. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **1994**, 266, R765-72	3.2	1
49	Chronic hypoxia alters ovine cerebrovascular reactivity and composition. *Proceedings of the Western Pharmacology Society*, **1991**, 34, 233-8		1
48	Pregnancy-induced changes in ovine cerebrovascular reactivity and composition. *Proceedings of the Western Pharmacology Society*, **1991**, 34, 239-45		1
47	Effects of maturation on ovine cerebrovascular function. *Proceedings of the Western Pharmacology Society*, **1991**, 34, 247-54		1
46	Role of endothelial relaxing and contracting factors in rabbit cranial artery responses to hypoxia. *Proceedings of the Western Pharmacology Society*, **1989**, 32, 239-45		1
45	Developmental contractility changes in ovine peripheral cerebral arteries. *Proceedings of the Western Pharmacology Society*, **1993**, 36, 63-70		1

44	Maturation and hypoxia influence the calcium dose response relationship in ovine cerebral arteries. *Proceedings of the Western Pharmacology Society*, **1993**, 36, 71-5		1
43	GENERATION OF MYOGENIC TONE REQUIRES RELEASE OF CALCIUM IN RAT CEREBRAL ARTERIES. *FASEB Journal*, **2007**, 21, A1386	0.9	1
42	The fetal cerebral circulation: three decades of exploration by the LLU Center for Perinatal Biology. *Advances in Experimental Medicine and Biology*, **2014**, 814, 177-91	3.6	1
41	Prenatal metyrapone treatment modulates neonatal cerebrovascular structure, function, and vulnerability to mild hypoxic-ischemic injury. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2020**, 318, R1-R16	3.2	1
40	Temporal evolution of heme oxygenase-1 expression in reactive astrocytes and microglia in response to traumatic brain injury. *Brain Hemorrhages*, **2020**, 1, 65-74	2.1	0
39	Postnatal development alters functional compartmentalization of myosin light chain kinase in ovine carotid arteries. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2021**, 321, R441-R453	3.2	0
38	Development and Function of the Cerebrovascular System **2017**, 841-847		
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