

Emilio A Herrera, Dvm

List of Publications by Year in descending order

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103
papers

2,978
citations

147566

31
h-index

197535

49
g-index

105
all docs

105
docs citations

105
times ranked

2763
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular regulation of lung maturation in near-term fetal sheep by maternal daily vitamin C treatment in late gestation. <i>Pediatric Research</i> , 2022, 91, 828-838.	1.1	5
2	Maternal melatonin: Effective intervention against developmental programming of cardiovascular dysfunction in adult offspring of complicated pregnancy. <i>Journal of Pineal Research</i> , 2022, 72, e12766.	3.4	11
3	Melatonin treatment during chronic hypoxic gestation improves neonatal cerebrovascular function. <i>Vascular Pharmacology</i> , 2022, 144, 106971.	1.0	3
4	Biomechanical and structural responses of the aorta to intermittent hypobaric hypoxia in a rat model. <i>Scientific Reports</i> , 2022, 12, 3790.	1.6	7
5	Cardioprotective Antioxidant and Anti-Inflammatory Mechanisms Induced by Intermittent Hypobaric Hypoxia. <i>Antioxidants</i> , 2022, 11, 1043.	2.2	5
6	Neonatal glucocorticoid overexposure alters cardiovascular function in young adult horses in a sex-linked manner. <i>Journal of Developmental Origins of Health and Disease</i> , 2021, 12, 309-318.	0.7	0
7	Analysis of the passive biomechanical behavior of a sheep-specific aortic artery in pulsatile flow conditions. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, 24, 1228-1241.	0.9	0
8	Blood-brain barrier dysfunction in hemorrhagic transformation: a therapeutic opportunity for nanoparticles and melatonin. <i>Journal of Neurophysiology</i> , 2021, 125, 2025-2033.	0.9	3
9	Beneficial effects of melatonin on prostanoids pathways in pulmonary hypertensive neonates. <i>Vascular Pharmacology</i> , 2021, 138, 106853.	1.0	6
10	Biomechanical characterization of the passive response of the thoracic aorta in chronic hypoxic newborn lambs using an evolutionary strategy. <i>Scientific Reports</i> , 2021, 11, 13875.	1.6	6
11	Gestational Hypoxia and Blood-Brain Barrier Permeability: Early Origins of Cerebrovascular Dysfunction Induced by Epigenetic Mechanisms. <i>Frontiers in Physiology</i> , 2021, 12, 717550.	1.3	12
12	Caracterizaci3n del da±o mec3nico de la aorta en condici3n de hipoxia. <i>Revista Materia</i> , 2021, 26, .	0.1	0
13	Melatonin Reduces Oxidative Stress in the Right Ventricle of Newborn Sheep Gestated under Chronic Hypoxia. <i>Antioxidants</i> , 2021, 10, 1658.	2.2	12
14	The Action of 2-Aminoethyl-diphenyl Borinate on the Pulmonary Arterial Hypertension and Remodeling of High-Altitude Hypoxemic Lambs. <i>Frontiers in Physiology</i> , 2021, 12, 765281.	1.3	1
15	High Altitude Pregnancies and Vascular Dysfunction: Observations From Latin American Studies. <i>Frontiers in Physiology</i> , 2021, 12, 786038.	1.3	6
16	Streptozotocin-induced leukocyte DNA damage in rats. <i>Drug and Chemical Toxicology</i> , 2020, 43, 165-168.	1.2	2
17	Melatonin long-lasting beneficial effects on pulmonary vascular reactivity and redox balance in chronic hypoxic ovine neonates. <i>Journal of Pineal Research</i> , 2020, 68, e12613.	3.4	18
18	Study of the Effect of Treatment With Atrial Natriuretic Peptide (ANP) and Cinaciguat in Chronic Hypoxic Neonatal Lambs on Residual Strain and Microstructure of the Arteries. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 590488.	2.0	4

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19	Effects of melatonin on the passive mechanical response of arteries in chronic hypoxic newborn lambs. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 112, 104013.	1.5	8
20	The newborn sheep translational model for pulmonary arterial hypertension of the neonate at high altitude. <i>Journal of Developmental Origins of Health and Disease</i> , 2020, 11, 452-463.	0.7	10
21	Altered Cardiovascular Defense to Hypotensive Stress in the Chronically Hypoxic Fetus. <i>Hypertension</i> , 2020, 76, 1195-1207.	1.3	9
22	Comment on Melatonin as a potential adjuvant treatment for COVID-19. <i>Life Sciences</i> , 2020, 253, 117739.	2.0	14
23	Perinatal cardiopulmonary adaptation to the thin air of the Alto Andino by a native Altiplano dweller, the llama. <i>Journal of Applied Physiology</i> , 2020, 129, 152-161.	1.2	3
24	Effects of Melatonin on the Defense to Acute Hypoxia in Newborn Lambs. <i>Frontiers in Endocrinology</i> , 2019, 10, 433.	1.5	5
25	Efectos Morfológicos y Mecánicos en Ratas Sprague Dawley Sometidas a Ciclos de Hipoxia. <i>International Journal of Morphology</i> , 2019, 37, 908-911.	0.1	0
26	Premature Vascular Aging in Guinea Pigs Affected by Fetal Growth Restriction. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3474.	1.8	9
27	Intervention against hypertension in the next generation programmed by developmental hypoxia. <i>PLoS Biology</i> , 2019, 17, e2006552.	2.6	43
28	Adult vascular dysfunction in foetal growth-restricted guinea pigs is associated with a neonate-adult switching in Nos3 DNA methylation. <i>Acta Physiologica</i> , 2019, 227, e13328.	1.8	10
29	The role of nitric oxide signaling in pulmonary circulation of high- and low-altitude newborn sheep under basal and acute hypoxic conditions. <i>Nitric Oxide - Biology and Chemistry</i> , 2019, 89, 71-80.	1.2	9
30	Antenatal melatonin modulates an enhanced antioxidant/pro-oxidant ratio in pulmonary hypertensive newborn sheep. <i>Redox Biology</i> , 2019, 22, 101128.	3.9	26
31	Guinea pig models for translation of the developmental origins of health and disease hypothesis into the clinic. <i>Journal of Physiology</i> , 2018, 596, 5535-5569.	1.3	105
32	The role of nitric oxide in the cardiopulmonary response to hypoxia in highland and lowland newborn llamas. <i>Journal of Physiology</i> , 2018, 596, 5907-5923.	1.3	16
33	Improving pregnancy outcomes in humans through studies in sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 315, R1123-R1153.	0.9	111
34	Progressive uterine artery occlusion in the Guinea pig leads to defects in placental structure that relate to fetal growth. <i>Placenta</i> , 2018, 72-73, 36-40.	0.7	16
35	Quercetin Prevents Diastolic Dysfunction Induced by a High-Cholesterol Diet: Role of Oxidative Stress and Bioenergetics in Hyperglycemic Rats. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-14.	1.9	48
36	Melatonin Decreases Pulmonary Vascular Remodeling and Oxygen Sensitivity in Pulmonary Hypertensive Newborn Lambs. <i>Frontiers in Physiology</i> , 2018, 9, 185.	1.3	26

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37	Revisiting the Role of TRP, Orai, and ASIC Channels in the Pulmonary Arterial Response to Hypoxia. <i>Frontiers in Physiology</i> , 2018, 9, 486.	1.3	23
38	Mechanisms of Cardiovascular Protection Associated with Intermittent Hypobaric Hypoxia Exposure in a Rat Model: Role of Oxidative Stress. <i>International Journal of Molecular Sciences</i> , 2018, 19, 366.	1.8	24
39	Mechanical characterization of arteries affected by fetal growth restriction in guinea pigs (<i>Cavia</i>) Tj ETQq1 1 0.784314 rgBT /Overlock	1.5	6
40	Modelling and numerical simulation of the in vivo mechanical response of the ascending aortic aneurysm in Marfan syndrome. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 419-428.	1.6	12
41	Maternal chronic hypoxia increases expression of genes regulating lung liquid movement and surfactant maturation in male fetuses in late gestation. <i>Journal of Physiology</i> , 2017, 595, 4329-4350.	1.3	17
42	N-Acetylcysteine, a glutathione precursor, reverts vascular dysfunction and endothelial epigenetic programming in intrauterine growth restricted guinea pigs. <i>Journal of Physiology</i> , 2017, 595, 1077-1092.	1.3	39
43	Fetal Growth Restriction Induces Heterogeneous Effects on Vascular Biomechanical and Functional Properties in Guinea Pigs (<i>Cavia porcellus</i>). <i>Frontiers in Physiology</i> , 2017, 8, 144.	1.3	26
44	Pulmonary Hypertension due to Lung Diseases and/or Hypoxia: What Do We Actually Know?. <i>Canadian Respiratory Journal</i> , 2017, 2017, 1-2.	0.8	2
45	Cardiovascular function in term fetal sheep conceived, gestated and studied in the hypobaric hypoxia of the Andean <i>altiplano</i> . <i>Journal of Physiology</i> , 2016, 594, 1231-1245.	1.3	22
46	Fetal <i>in vivo</i> continuous cardiovascular function during chronic hypoxia. <i>Journal of Physiology</i> , 2016, 594, 1247-1264.	1.3	60
47	Impaired Nitric Oxide Mediated Vasodilation In The Peripheral Circulation In The R6/2 Mouse Model Of Huntington's Disease. <i>Scientific Reports</i> , 2016, 6, 25979.	1.6	6
48	Pre-gestational overweight in guinea pig sows induces fetal vascular dysfunction and increased rate of large and small fetuses. <i>Journal of Developmental Origins of Health and Disease</i> , 2016, 7, 237-243.	0.7	6
49	2-Aminoethyl-diphenylborinate modifies the pulmonary circulation in pulmonary hypertensive newborn lambs partially gestated at high altitude. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 311, L788-L799.	1.3	14
50	Assessment of <i>in vivo</i> fetal growth and placental vascular function in a novel intrauterine growth restriction model of progressive uterine artery occlusion in guinea pigs. <i>Journal of Physiology</i> , 2016, 594, 1553-1561.	1.3	30
51	Role of the RhoA/ROCK pathway in high-altitude associated neonatal pulmonary hypertension in lambs. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R1053-R1063.	0.9	22
52	Potential adverse effects of antenatal melatonin as a treatment for intrauterine growth restriction: findings in pregnant sheep. <i>American Journal of Obstetrics and Gynecology</i> , 2016, 215, 245.e1-245.e7.	0.7	34
53	Pharmacological models and approaches for pathophysiological conditions associated with hypoxia and oxidative stress. , 2016, 158, 1-23.		52
54	Melatonin modulates the fetal cardiovascular defense response to acute hypoxia. <i>Journal of Pineal Research</i> , 2015, 59, 80-90.	3.4	41

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55	Î©3 Supplementation and Intermittent Hypobaric Hypoxia Induce Cardioprotection Enhancing Antioxidant Mechanisms in Adult Rats. <i>Marine Drugs</i> , 2015, 13, 838-860.	2.2	21
56	Induction of controlled hypoxic pregnancy in large mammalian species. <i>Physiological Reports</i> , 2015, 3, e12614.	0.7	47
57	Melatonin reduces oxidative stress and improves vascular function in pulmonary hypertensive newborn sheep. <i>Journal of Pineal Research</i> , 2015, 58, 362-373.	3.4	65
58	Pharmacological approaches in either intermittent or permanent hypoxia: A tale of two exposures. <i>Pharmacological Research</i> , 2015, 101, 94-101.	3.1	22
59	The placental pursuit for an adequate oxidant balance between the mother and the fetus. <i>Frontiers in Pharmacology</i> , 2014, 5, 149.	1.6	72
60	Foetal and umbilical vascular reactivity in a model of IUGR through gradual uterine artery occlusion in guinea pigs. <i>Placenta</i> , 2014, 35, A43-A44.	0.7	0
61	Heart Disease Link to Fetal Hypoxia and Oxidative Stress. <i>Advances in Experimental Medicine and Biology</i> , 2014, 814, 77-87.	0.8	58
62	Xanthine oxidase and the fetal cardiovascular defence to hypoxia in late gestation ovine pregnancy. <i>Journal of Physiology</i> , 2014, 592, 475-489.	1.3	36
63	Melatonin improves cerebrovascular function and decreases oxidative stress in chronically hypoxic lambs. <i>Journal of Pineal Research</i> , 2014, 57, 33-42.	3.4	26
64	Endothelial heterogeneity in the umbilico-placental unit: DNA methylation as an innuendo of epigenetic diversity. <i>Frontiers in Pharmacology</i> , 2014, 5, 49.	1.6	21
65	Impact of Maternal Melatonin Suppression on Amount and Functionality of Brown Adipose Tissue (BAT) in the Newborn Sheep. <i>Frontiers in Endocrinology</i> , 2014, 5, 232.	1.5	47
66	Reduced Cystathionine Î³-Lyase and Increased miR-21 Expression Are Associated with Increased Vascular Resistance in Growth-Restricted Pregnancies. <i>American Journal of Pathology</i> , 2013, 182, 1448-1458.	1.9	120
67	Statins prevent adverse effects of postnatal glucocorticoid therapy on the developing brain in rats. <i>Pediatric Research</i> , 2013, 74, 639-645.	1.1	9
68	Store-operated channels in the pulmonary circulation of high- and low-altitude neonatal lambs. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013, 304, L540-L548.	1.3	26
69	High altitude hypoxia and blood pressure dysregulation in adult chickens. <i>Journal of Developmental Origins of Health and Disease</i> , 2013, 4, 69-76.	0.7	19
70	Antioxidant treatment improves neonatal survival and prevents impaired cardiac function at adulthood following neonatal glucocorticoid therapy. <i>Journal of Physiology</i> , 2013, 591, 5083-5093.	1.3	34
71	Vitamin C Prevents Intrauterine Programming of in vivo Cardiovascular Dysfunction in the Rat. <i>Circulation Journal</i> , 2013, 77, 2604-2611.	0.7	60
72	Morphological and Functional Alterations in the Aorta of the Chronically Hypoxic Fetal Rat. <i>Journal of Vascular Research</i> , 2012, 49, 50-58.	0.6	31

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73	A role for xanthine oxidase in the control of fetal cardiovascular function in late gestation sheep. <i>Journal of Physiology</i> , 2012, 590, 1825-1837.	1.3	31
74	The heme oxygenaseâ€“carbon monoxide system in the regulation of cardiorespiratory function at high altitude. <i>Respiratory Physiology and Neurobiology</i> , 2012, 184, 186-191.	0.7	18
75	The Augmentation of a Collagen/Glycosaminoglycan Biphasic Osteochondral Scaffold with Platelet-Rich Plasma and Concentrated Bone Marrow Aspirate for Osteochondral Defect Repair in Sheep. <i>Cartilage</i> , 2012, 3, 351-363.	1.4	36
76	Statin treatment depresses the fetal defence to acute hypoxia via increasing nitric oxide bioavailability. <i>Journal of Physiology</i> , 2012, 590, 323-334.	1.3	43
77	Developmental Programming of Cardiovascular Dysfunction by Prenatal Hypoxia and Oxidative Stress. <i>PLoS ONE</i> , 2012, 7, e31017.	1.1	228
78	Fetal and postnatal pulmonary circulation in the Alto Andino. <i>Placenta</i> , 2011, 32, S100-S103.	0.7	23
79	Counterpoint: High Altitude is not for the Birds!. <i>Journal of Applied Physiology</i> , 2011, 111, 1515-1518.	1.2	4
80	Last Word on Point:Counterpoint: High altitude is/is not for the birds!. <i>Journal of Applied Physiology</i> , 2011, 111, 1526-1526.	1.2	0
81	Implication of Low Level Inflammation in the Insulin Resistance of Adipose Tissue at Late Pregnancy. <i>Endocrinology</i> , 2011, 152, 4094-4105.	1.4	35
82	Role of the Î±-adrenergic system in femoral vascular reactivity in neonatal llamas and sheep: a comparative study between highland and lowland species. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R1153-R1160.	0.9	12
83	Partial contributions of developmental hypoxia and undernutrition to prenatal alterations in somatic growth and cardiovascular structure and function. <i>American Journal of Obstetrics and Gynecology</i> , 2010, 203, 495.e24-495.e34.	0.7	74
84	Melatonin and vitamin C increase umbilical blood flow via nitric oxideâ€“dependent mechanisms. <i>Journal of Pineal Research</i> , 2010, 49, 399-406.	3.4	97
85	Long-term exposure to high-altitude chronic hypoxia during gestation induces neonatal pulmonary hypertension at sea level. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 299, R1676-R1684.	0.9	61
86	Professor Giorgio Pardi and His Legacy. <i>Reproductive Sciences</i> , 2010, 17, 101-101.	1.1	0
87	Antioxidant Treatment Alters Peripheral Vascular Dysfunction Induced by Postnatal Glucocorticoid Therapy in Rats. <i>PLoS ONE</i> , 2010, 5, e9250.	1.1	53
88	Evidence of a role for melatonin in fetal sheep physiology: direct actions of melatonin on fetal cerebral artery, brown adipose tissue and adrenal gland. <i>Journal of Physiology</i> , 2008, 586, 4017-4027.	1.3	71
89	Sildenafil Reverses Hypoxic Pulmonary Hypertension in Highland and Lowland Newborn Sheep. <i>Pediatric Research</i> , 2008, 63, 169-175.	1.1	38
90	Carbon monoxide: a novel pulmonary artery vasodilator in neonatal llamas of the Andean altiplano. <i>Cardiovascular Research</i> , 2007, 77, 197-201.	1.8	38

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91	High-altitude chronic hypoxia during gestation and after birth modifies cardiovascular responses in newborn sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 292, R2234-R2240.	0.9	85
92	Evolving in thin air—Lessons from the llama fetus in the altiplano. <i>Respiratory Physiology and Neurobiology</i> , 2007, 158, 298-306.	0.7	29
93	Long-term consequences of under-nutrition during suckling on glucose tolerance and lipoprotein profile in female and male rats. <i>British Journal of Nutrition</i> , 2006, 96, 1030-1037.	1.2	12
94	Fetal brain hypometabolism during prolonged hypoxaemia in the llama. <i>Journal of Physiology</i> , 2005, 567, 963-975.	1.3	27
95	Vasodilator tone in the llama fetus: the role of nitric oxide during normoxemia and hypoxemia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 289, R776-R783.	0.9	16
96	The Fetal Llama versus the Fetal Sheep: Different Strategies to Withstand Hypoxia. <i>High Altitude Medicine and Biology</i> , 2003, 4, 193-202.	0.5	53
97	Use of fetal biometry to determine fetal age in late pregnancy in llamas. <i>Animal Reproduction Science</i> , 2002, 74, 101-109.	0.5	8
98	Regional brain blood flow and cerebral hemispheric oxygen consumption during acute hypoxaemia in the llama fetus. <i>Journal of Physiology</i> , 2002, 538, 975-983.	1.3	20
99	Low-Dose Inhaled Carbon Monoxide Reduces Pulmonary Vascular Resistance During Acute Hypoxemia in Adult Sheep. <i>High Altitude Medicine and Biology</i> , 2001, 2, 377-385.	0.5	30
100	Low Arachidonic Acid Rather than α -Tocopherol Is Responsible for the Delayed Postnatal Development in Offspring of Rats Fed Fish Oil Instead of Olive Oil during Pregnancy and Lactation. <i>Journal of Nutrition</i> , 2000, 130, 2855-2865.	1.3	92
101	Cardiovascular Responses to Arginine Vasopressin Blockade During Acute Hypoxemia in the Llama Fetus. <i>High Altitude Medicine and Biology</i> , 2000, 1, 175-184.	0.5	16
102	Epigenetic Programming of Cardiovascular Disease by Perinatal Hypoxia and Fetal Growth Restriction. <i>0, , .</i>		2
103	Cinaciguat (BAY-582667) Modifies Cardiopulmonary and Systemic Circulation in Chronically Hypoxic and Pulmonary Hypertensive Neonatal Lambs in the Alto Andino. <i>Frontiers in Physiology</i> , 0, 13, .	1.3	2