

Margie Castillo-Melendez

List of Publications by Year in descending order

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47
papers

2,191
citations

218677

26
h-index

243625

44
g-index

47
all docs

47
docs citations

47
times ranked

2463
citing authors

#	ARTICLE	IF	CITATIONS
1	Neonatal Morbidities of Fetal Growth Restriction: Pathophysiology and Impact. <i>Frontiers in Endocrinology</i> , 2019, 10, 55.	3.5	237
2	Antenatal antioxidant treatment with melatonin to decrease newborn neurodevelopmental deficits and brain injury caused by fetal growth restriction. <i>Journal of Pineal Research</i> , 2014, 56, 283-294.	7.4	134
3	Melatonin Provides Neuroprotection in the Late-Gestation Fetal Sheep Brain in Response to Umbilical Cord Occlusion. <i>Developmental Neuroscience</i> , 2005, 27, 200-210.	2.0	131
4	Vulnerability of the developing brain to hypoxic-ischemic damage: contribution of the cerebral vasculature to injury and repair?. <i>Frontiers in Physiology</i> , 2012, 3, 424.	2.8	111
5	Stem cell therapy to protect and repair the developing brain: a review of mechanisms of action of cord blood and amnion epithelial derived cells. <i>Frontiers in Neuroscience</i> , 2013, 7, 194.	2.8	97
6	The Effects of Maternal Betamethasone Administration on the Intrauterine Growth-Restricted Fetus. <i>Endocrinology</i> , 2007, 148, 1288-1295.	2.8	91
7	The Neurovascular Unit: Effects of Brain Insults During the Perinatal Period. <i>Frontiers in Neuroscience</i> , 2019, 13, 1452.	2.8	84
8	Cerebrovascular Responses in the Fetal Sheep Brain to Low-Dose Endotoxin. <i>Pediatric Research</i> , 2004, 55, 855-863.	2.3	77
9	Effects of umbilical cord blood cells, and subtypes, to reduce neuroinflammation following perinatal hypoxic-ischemic brain injury. <i>Journal of Neuroinflammation</i> , 2018, 15, 47.	7.2	74
10	Preterm white matter brain injury is prevented by early administration of umbilical cord blood cells. <i>Experimental Neurology</i> , 2016, 283, 179-187.	4.1	71
11	Presynaptic adenosine A2a receptors on soma and central terminals of rat vagal afferent neurons. <i>Brain Research</i> , 1994, 652, 137-144.	2.2	64
12	Lipid Peroxidation, Caspase-3 Immunoreactivity, and Pyknosis in Late-Gestation Fetal Sheep Brain after Umbilical Cord Occlusion. <i>Pediatric Research</i> , 2004, 55, 864-871.	2.3	63
13	Cord blood mononuclear cells prevent neuronal apoptosis in response to perinatal asphyxia in the newborn lamb. <i>Journal of Physiology</i> , 2016, 594, 1421-1435.	2.9	62
14	Novel method for in vivo hydroxyl radical measurement by microdialysis in fetal sheep brain in utero. <i>Journal of Applied Physiology</i> , 2005, 98, 2304-2310.	2.5	61
15	Mechanisms of Melatonin-Induced Protection in the Brain of Late Gestation Fetal Sheep in Response to Hypoxia. <i>Developmental Neuroscience</i> , 2012, 34, 543-551.	2.0	57
16	The distribution of nitric oxide synthase-, adenosine deaminase- and neuropeptide Y-immunoreactivity through the entire rat nucleus tractus solitarius. <i>Journal of Chemical Neuroanatomy</i> , 1998, 15, 27-40.	2.1	55
17	Increased allopregnanolone levels in the fetal sheep brain following umbilical cord occlusion. <i>Journal of Physiology</i> , 2004, 560, 593-602.	2.9	55
18	Cerebrovascular adaptations to chronic hypoxia in the growth restricted lamb. <i>International Journal of Developmental Neuroscience</i> , 2015, 45, 55-65.	1.6	52

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19	Ontogeny of the Adrenal Gland in the Spiny Mouse, With Particular Reference to Production of the Steroids Cortisol and Dehydroepiandrosterone. <i>Endocrinology</i> , 2013, 154, 1190-1201.	2.8	49
20	Detection and assessment of brain injury in the growth-restricted fetus and neonate. <i>Pediatric Research</i> , 2017, 82, 184-193.	2.3	48
21	Microglial activation, macrophage infiltration, and evidence of cell death in the fetal brain after uteroplacental administration of lipopolysaccharide in sheep in late gestation. <i>American Journal of Obstetrics and Gynecology</i> , 2008, 198, 117.e1-117.e11.	1.3	45
22	Early- versus Late-Onset Fetal Growth Restriction Differentially Affects the Development of the Fetal Sheep Brain. <i>Developmental Neuroscience</i> , 2017, 39, 141-155.	2.0	43
23	Experimental Modelling of the Consequences of Brief Late Gestation Asphyxia on Newborn Lamb Behaviour and Brain Structure. <i>PLoS ONE</i> , 2013, 8, e77377.	2.5	38
24	Uteroplacental Inflammation Results in Blood Brain Barrier Breakdown, Increased Activated Caspase 3 and Lipid Peroxidation in the Late Gestation Ovine Fetal Cerebellum. <i>Developmental Neuroscience</i> , 2007, 29, 341-354.	2.0	34
25	VEGF expression and microvascular responses to severe transient hypoxia in the fetal sheep brain. <i>Pediatric Research</i> , 2013, 73, 310-316.	2.3	34
26	Effects of Antenatal Melatonin Treatment on the Cerebral Vasculature in an Ovine Model of Fetal Growth Restriction. <i>Developmental Neuroscience</i> , 2017, 39, 323-337.	2.0	33
27	Adrenal steroidogenesis following prenatal dexamethasone exposure in the spiny mouse. <i>Journal of Endocrinology</i> , 2014, 221, 347-362.	2.6	27
28	Expression of Erythropoietin and Its Receptor in the Brain of Late-Gestation Fetal Sheep, and Responses to Asphyxia Caused by Umbilical Cord Occlusion. <i>Developmental Neuroscience</i> , 2005, 27, 220-227.	2.0	24
29	Neuropathology as a consequence of neonatal ventilation in premature growth-restricted lambs. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 315, R1183-R1194.	1.8	24
30	Injury of the Developing Cerebellum: A Brief Review of the Effects of Endotoxin and Asphyxial Challenges in the Late Gestation Sheep Fetus. <i>Cerebellum</i> , 2014, 13, 777-786.	2.5	23
31	The fetoplacental unit, and potential roles of dehydroepiandrosterone (DHEA) in prenatal and postnatal brain development: A re-examination using the spiny mouse. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2016, 160, 204-213.	2.5	21
32	Development of the cerebral cortex and the effect of the intrauterine environment. <i>Journal of Physiology</i> , 2018, 596, 5665-5674.	2.9	21
33	Neurovascular effects of umbilical cord blood-derived stem cells in growth-restricted newborn lambs. <i>Stem Cell Research and Therapy</i> , 2020, 11, 17.	5.5	20
34	Altered trajectory of neurodevelopment associated with fetal growth restriction. <i>Experimental Neurology</i> , 2022, 347, 113885.	4.1	17
35	Advanced MRI analysis to detect white matter brain injury in growth restricted newborn lambs. <i>NeuroImage: Clinical</i> , 2019, 24, 101991.	2.7	15
36	Fetal Growth Restriction Alters Cerebellar Development in Fetal and Neonatal Sheep. <i>Frontiers in Physiology</i> , 2019, 10, 560.	2.8	14

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37	[3H]adenosine transport in rat dorsal brain stem using a crude synaptosomal preparation. <i>Neurochemistry International</i> , 1994, 25, 221-226.	3.8	12
38	Morphological evaluation of the cerebral blood vessels in the late gestation fetal sheep following hypoxia in utero. <i>Microvascular Research</i> , 2013, 85, 1-9.	2.5	12
39	Effect of maternal administration of allopregnanolone before birth asphyxia on neonatal hippocampal function in the spiny mouse. <i>Brain Research</i> , 2012, 1433, 9-19.	2.2	11
40	Ontogenetic Change in the Regional Distribution of Dehydroepiandrosterone-Synthesizing Enzyme and the Glucocorticoid Receptor in the Brain of the Spiny Mouse (<i>Acomys cahirinus</i>). <i>Developmental Neuroscience</i> , 2016, 38, 54-73.	2.0	11
41	Radioligand binding and autoradiographic visualization of adenosine transport sites in human inferior vagal ganglia and their axonal transport along rat vagal afferent neurons. <i>Journal of the Autonomic Nervous System</i> , 1996, 57, 36-42.	1.9	10
42	The effect of hypoxia on the functional and structural development of the chick brain. <i>International Journal of Developmental Neuroscience</i> , 2010, 28, 343-350.	1.6	10
43	Genetic and microstructural differences in the cortical plate of gyri and sulci during gyrification in fetal sheep. <i>Cerebral Cortex</i> , 2020, 30, 6169-6190.	2.9	7
44	Brief hypoxia in late gestation sheep causes prolonged disruption of fetal electrographic, breathing behaviours and can result in early labour. <i>Journal of Physiology</i> , 2021, 599, 3221-3236.	2.9	5
45	Umbilical Cord Blood Cells for Perinatal Brain Injury: The Right Cells at the Right Time?. , 0, , .		4
46	Does Antenatal Betamethasone Alter White Matter Brain Development in Growth Restricted Fetal Sheep?. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 100.	3.7	3
47	Is Umbilical Cord Blood Therapy an Effective Treatment for Early Lung Injury in Growth Restriction?. <i>Frontiers in Endocrinology</i> , 2020, 11, 86.	3.5	0