Suzanne L Miller

List of Publications by Year in Descending Order

129 papers	3,152 citations	33 h-index	50 g-index
138 ext. papers	3,900 ext. citations	4.1 avg, IF	5.38 L-index

#	Paper	IF	Citations
129	Effect of expansion of human umbilical cord blood CD34 + cells on neurotrophic and angiogenic factor expression and function.. *Cell and Tissue Research*, **2022**, 388, 117	4.2	0
128	Altered trajectory of neurodevelopment associated with fetal growth restriction. *Experimental Neurology*, **2022**, 347, 113885	5.7	0
127	Melatonin augments the neuroprotective effects of hypothermia in lambs following perinatal asphyxia. *Journal of Pineal Research*, **2021**, 71, e12744	10.4	2
126	Optimization of behavioral testing in a long-term rat model of hypoxic ischemic brain injury. *Behavioural Brain Research*, **2021**, 409, 113322	3.4	2
125	Window of opportunity for human amnion epithelial stem cells to attenuate astrogliosis after umbilical cord occlusion in preterm fetal sheep. *Stem Cells Translational Medicine*, **2021**, 10, 427-440	6.9	6
124	Cardiovascular and Cerebrovascular Implications of Growth Restriction: Mechanisms and Potential Treatments. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
123	Interleukin-1 blockade attenuates white matter inflammation and oligodendrocyte loss after progressive systemic lipopolysaccharide exposure in near-term fetal sheep. *Journal of Neuroinflammation*, **2021**, 18, 189	10.1	5
122	Umbilical cord blood therapy modulates neonatal hypoxic ischemic brain injury in both females and males. *Scientific Reports*, **2021**, 11, 15788	4.9	4
121	Neural stem cell treatment for perinatal brain injury: A systematic review and meta-analysis of preclinical studies. *Stem Cells Translational Medicine*, **2021**, 10, 1621-1636	6.9	2
120	Autologous transplantation of umbilical cord blood-derived cells in extreme preterm infants: protocol for a safety and feasibility study. *BMJ Open*, **2020**, 10, e036065	3	2
119	The Cerebral Hemodynamic Response to Pain in Preterm Infants With Fetal Growth Restriction. *Frontiers in Pediatrics*, **2020**, 8, 268	3.4	1
118	Is Umbilical Cord Blood Therapy an Effective Treatment for Early Lung Injury in Growth Restriction?. *Frontiers in Endocrinology*, **2020**, 11, 86	5.7	
117	Multiple doses of umbilical cord blood cells improve long-term brain injury in the neonatal rat. *Brain Research*, **2020**, 1746, 147001	3.7	8
116	Does Antenatal Betamethasone Alter White Matter Brain Development in Growth Restricted Fetal Sheep?. *Frontiers in Cellular Neuroscience*, **2020**, 14, 100	6.1	
115	Neurovascular effects of umbilical cord blood-derived stem cells in growth-restricted newborn lambs : UCBCs for perinatal brain injury. *Stem Cell Research and Therapy*, **2020**, 11, 17	8.3	11
114	Multiple Doses of Umbilical Cord Blood Cells Improve Long-Term Perinatal Brain Injury. *Stem Cells Translational Medicine*, **2020**, 9, S3	6.9	2
113	Excess cerebral oxygen delivery follows return of spontaneous circulation in near-term asphyxiated lambs. *Scientific Reports*, **2020**, 10, 16443	4.9	4

112	Midkine: The Who, What, Where, and When of a Promising Neurotrophic Therapy for Perinatal Brain Injury. *Frontiers in Neurology*, **2020**, 11, 568814	4.1	1
111	Maternal sildenafil impairs the cardiovascular adaptations to chronic hypoxaemia in fetal sheep. *Journal of Physiology*, **2020**, 598, 4405-4419	3.9	6
110	Cardiopulmonary Resuscitation of Asystolic Newborn Lambs Prior to Umbilical Cord Clamping; the Timing of Cord Clamping Matters!. *Frontiers in Physiology*, **2020**, 11, 902	4.6	4
109	Respiratory Support of the Preterm Neonate: Lessons About Ventilation-Induced Brain Injury From Large Animal Models. *Frontiers in Neurology*, **2020**, 11, 862	4.1	0
108	Advanced MRI analysis to detect white matter brain injury in growth restricted newborn lambs. *NeuroImage: Clinical*, **2019**, 24, 101991	5.3	9
107	Fetal Growth Restriction Alters Cerebellar Development in Fetal and Neonatal Sheep. *Frontiers in Physiology*, **2019**, 10, 560	4.6	4
106	Protect-me: a parallel-group, triple blinded, placebo-controlled randomised clinical trial protocol assessing antenatal maternal melatonin supplementation for fetal neuroprotection in early-onset fetal growth restriction. *BMJ Open*, **2019**, 9, e028243	3	16
105	Intranasal Delivery of Mesenchymal Stromal Cells Protects against Neonatal Hypoxic?Ischemic Brain Injury. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	26
104	Fetal growth restriction is associated with an altered cardiopulmonary and cerebral hemodynamic response to surfactant therapy in preterm lambs. *Pediatric Research*, **2019**, 86, 47-54	3.2	2
103	Haemodynamic Instability and Brain Injury in Neonates Exposed to Hypoxia?Ischaemia. *Brain Sciences*, **2019**, 9,	3.4	15
102	Effects of Maternal Sildenafil Treatment on Vascular Function in Growth-Restricted Fetal Sheep. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2019**, 39, 731-740	9.4	8
101	Human Umbilical Cord Therapy Improves Long-Term Behavioral Outcomes Following Neonatal Hypoxic Ischemic Brain Injury. *Frontiers in Physiology*, **2019**, 10, 283	4.6	19
100	Umbilical cord blood versus mesenchymal stem cells for inflammation-induced preterm brain injury in fetal sheep. *Pediatric Research*, **2019**, 86, 165-173	3.2	22
99	Neonatal Morbidities of Fetal Growth Restriction: Pathophysiology and Impact. *Frontiers in Endocrinology*, **2019**, 10, 55	5.7	105
98	The Neurovascular Unit: Effects of Brain Insults During the Perinatal Period. *Frontiers in Neuroscience*, **2019**, 13, 1452	5.1	36
97	Preterm growth restriction and bronchopulmonary dysplasia: the vascular hypothesis and related physiology. *Journal of Physiology*, **2019**, 597, 1209-1220	3.9	23
96	Placental creatine metabolism in cases of placental insufficiency and reduced fetal growth. *Molecular Human Reproduction*, **2019**, 25, 495-505	4.4	7
95	Placental histopathology in preterm fetal growth restriction. *Journal of Paediatrics and Child Health* , **2019**, 55, 582-587	1.3	10

94	Delayed intranasal infusion of human amnion epithelial cells improves white matter maturation after asphyxia in preterm fetal sheep. *Journal of Cerebral Blood Flow and Metabolism*, **2019**, 39, 223-239	7.3	33
93	Systemic and transdermal melatonin administration prevents neuropathology in response to perinatal asphyxia in newborn lambs. *Journal of Pineal Research*, **2018**, 64, e12479	10.4	33
92	Three-dimensional ultrasound cranial imaging and early neurodevelopment in preterm growth-restricted infants. *Journal of Paediatrics and Child Health*, **2018**, 54, 420-425	1.3	5
91	Effects of umbilical cord blood cells, and subtypes, to reduce neuroinflammation following perinatal hypoxic-ischemic brain injury. *Journal of Neuroinflammation*, **2018**, 15, 47	10.1	41
90	Umbilical cord blood cells for treatment of cerebral palsy; timing and treatment options. *Pediatric Research*, **2018**, 83, 333-344	3.2	26
89	Antenatal prevention of cerebral palsy and childhood disability: is the impossible possible?. *Journal of Physiology*, **2018**, 596, 5593-5609	3.9	8
88	In situ phase contrast X-ray brain CT. *Scientific Reports*, **2018**, 8, 11412	4.9	27
87	The Consequences of Preterm Birth and Chorioamnionitis on Brainstem Respiratory Centers: Implications for Neurochemical Development and Altered Functions by Inflammation and Prostaglandins. *Frontiers in Cellular Neuroscience*, **2018**, 12, 26	6.1	12
86	Preterm umbilical cord blood derived mesenchymal stem/stromal cells protect preterm white matter brain development against hypoxia-ischemia. *Experimental Neurology*, **2018**, 308, 120-131	5.7	29
85	Physiologically based cord clamping stabilises cardiac output and reduces cerebrovascular injury in asphyxiated near-term lambs. *Archives of Disease in Childhood: Fetal and Neonatal Edition*, **2018**, 103, F530-F538	4.7	39
84	Vascular aging and cardiac maladaptation in growth-restricted preterm infants. *Journal of Perinatology*, **2018**, 38, 92-97	3.1	14
83	Imaging the Brain In Situ with Phase Contrast CT. *Microscopy and Microanalysis*, **2018**, 24, 354-355	0.5	
82	The Effect of Antenatal Betamethasone on White Matter Inflammation and Injury in Fetal Sheep and Ventilated Preterm Lambs. *Developmental Neuroscience*, **2018**, 40, 497-507	2.2	3
81	Neuropathology as a consequence of neonatal ventilation in premature growth-restricted lambs. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2018**, 315, R1183-R1194	3.2	13
80	Human Umbilical Cord Blood Therapy Protects Cerebral White Matter from Systemic LPS Exposure in Preterm Fetal Sheep. *Developmental Neuroscience*, **2018**, 40, 258-270	2.2	26
79	Melatonin improves endothelial function in vitro and prolongs pregnancy in women with early-onset preeclampsia. *Journal of Pineal Research*, **2018**, 65, e12508	10.4	70
78	Dobutamine treatment reduces inflammation in the preterm fetal sheep brain exposed to acute hypoxia. *Pediatric Research*, **2018**, 84, 442-450	3.2	3
77	The paradox of the preterm fetus. *Journal of Physiology*, **2017**, 595, 1851-1852	3.9	

76	Detection and assessment of brain injury in the growth-restricted fetus and neonate. *Pediatric Research*, **2017**, 82, 184-193	3.2	25
75	Effects of Antenatal Melatonin Treatment on the Cerebral Vasculature in an Ovine Model of Fetal Growth Restriction. *Developmental Neuroscience*, **2017**, 39, 323-337	2.2	21
74	Human Amnion Epithelial Cells Protect Against White Matter Brain Injury After Repeated Endotoxin Exposure in the Preterm Ovine Fetus. *Cell Transplantation*, **2017**, 26, 541-553	4	27
73	Early- versus Late-Onset Fetal Growth Restriction Differentially Affects the Development of the Fetal Sheep Brain. *Developmental Neuroscience*, **2017**, 39, 141-155	2.2	28
72	Umbilical Cord Blood Cells for Perinatal Brain Injury: The Right Cells at the Right Time? **2017**,		3
71	Effects of antenatal melatonin therapy on lung structure in growth-restricted newborn lambs. *Journal of Applied Physiology*, **2017**, 123, 1195-1203	3.7	11
70	Description of a method for inducing fetal growth restriction in the spiny mouse. *Journal of Developmental Origins of Health and Disease*, **2017**, 8, 550-555	2.4	2
69	Does growth restriction increase the vulnerability to acute ventilation-induced brain injury in newborn lambs? Implications for future health and disease. *Journal of Developmental Origins of Health and Disease*, **2017**, 8, 556-565	2.4	6
68	Cardiac Morphology and Function in Preterm Growth Restricted Infants: Relevance for Clinical Sequelae. *Journal of Pediatrics*, **2017**, 188, 128-134.e2	3.6	20
67	Ganaxolone: A New Treatment for Neonatal Seizures. *Frontiers in Cellular Neuroscience*, **2017**, 11, 246	6.1	23
66	The Beneficial Effects of Melatonin Administration Following Hypoxia-Ischemia in Preterm Fetal Sheep. *Frontiers in Cellular Neuroscience*, **2017**, 11, 296	6.1	40
65	Perinatal Brain Injury As a Consequence of Preterm Birth and Intrauterine Inflammation: Designing Targeted Stem Cell Therapies. *Frontiers in Neuroscience*, **2017**, 11, 200	5.1	40
64	Diffusion Tensor Imaging Colour Mapping Threshold for Identification of Ventilation-Induced Brain Injury after Intrauterine Inflammation in Preterm Lambs. *Frontiers in Pediatrics*, **2017**, 5, 70	3.4	3
63	Term vs. preterm cord blood cells for the prevention of preterm brain injury. *Pediatric Research*, **2017**, 82, 1030-1038	3.2	24
62	Effects of intrauterine growth restriction on sleep and the cardiovascular system: The use of melatonin as a potential therapy?. *Sleep Medicine Reviews*, **2016**, 26, 64-73	10.2	17
61	Altered cardiovascular function at birth in growth-restricted preterm lambs. *Pediatric Research*, **2016**, 80, 538-46	3.2	20
60	Cord blood mononuclear cells prevent neuronal apoptosis in response to perinatal asphyxia in the newborn lamb. *Journal of Physiology*, **2016**, 594, 1421-35	3.9	42
59	Melatonin for treating pre-eclampsia. *The Cochrane Library*, **2016**,	5.2	2

58	Preterm white matter brain injury is prevented by early administration of umbilical cord blood cells. *Experimental Neurology*, **2016**, 283, 179-87	5.7	53
57	Dopamine treatment during acute hypoxia is neuroprotective in the developing sheep brain. *Neuroscience*, **2016**, 316, 82-93	3.9	11
56	Impact of intra- and extrauterine growth on bone mineral density and content in the neonatal period of very-low-birth-weight infants. *Early Human Development*, **2016**, 92, 1-6	2.2	3
55	Single Sustained Inflation followed by Ventilation Leads to Rapid Cardiorespiratory Recovery but Causes Cerebral Vascular Leakage in Asphyxiated Near-Term Lambs. *PLoS ONE*, **2016**, 11, e0146574	3.7	14
54	Preterm Hypoxic-Ischemic Encephalopathy. *Frontiers in Pediatrics*, **2016**, 4, 114	3.4	70
53	The consequences of fetal growth restriction on brain structure and neurodevelopmental outcome. *Journal of Physiology*, **2016**, 594, 807-23	3.9	233
52	Ventilation-Induced Brain Injury in Preterm Neonates: A Review of Potential Therapies. *Neonatology*, **2016**, 110, 155-62	4	35
51	Ventilation-induced lung injury is not exacerbated by growth restriction in preterm lambs. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2016**, 310, L213-23	5.8	14
50	Melatonin for preventing pre-eclampsia. *The Cochrane Library*, **2015**,	5.2	1
49	Does fetal growth restriction lead to increased brain injury as detected by neonatal cranial ultrasound in premature infants?. *Journal of Paediatrics and Child Health*, **2015**, 51, 1103-8	1.3	11
48	Impact of intrauterine growth restriction on preterm lung disease. *Acta Paediatrica, International Journal of Paediatrics*, **2015**, 104, e552-6	3.1	15
47	Unraveling the Links Between the Initiation of Ventilation and Brain Injury in Preterm Infants. *Frontiers in Pediatrics*, **2015**, 3, 97	3.4	28
46	Cerebrovascular adaptations to chronic hypoxia in the growth restricted lamb. *International Journal of Developmental Neuroscience*, **2015**, 45, 55-65	2.7	36
45	Antenatal antioxidant treatment with melatonin to decrease newborn neurodevelopmental deficits and brain injury caused by fetal growth restriction. *Journal of Pineal Research*, **2014**, 56, 283-94	10.4	99
44	Respiratory support for premature neonates in the delivery room: effects on cardiovascular function and the development of brain injury. *Pediatric Research*, **2014**, 75, 682-8	3.2	49
43	Detecting brain injury in neonatal hypoxic ischemic encephalopathy: closing the gap between experimental and clinical research. *Experimental Neurology*, **2014**, 261, 281-90	5.7	31
42	Maternal melatonin administration mitigates coronary stiffness and endothelial dysfunction, and improves heart resilience to insult in growth restricted lambs. *Journal of Physiology*, **2014**, 592, 2695-709	3.9	38
41	The effects of betamethasone on allopregnanolone concentrations and brain development in preterm fetal sheep. *Neuropharmacology*, **2014**, 85, 342-8	5.5	10

40	The Efficacy of Surfactant Replacement Therapy in the Growth-Restricted Preterm Infant: What is the Evidence?. *Frontiers in Pediatrics*, **2014**, 2, 118	3.4	4
39	Circulatory responses to asphyxia differ if the asphyxia occurs in utero or ex utero in near-term lambs. *PLoS ONE*, **2014**, 9, e112264	3.7	14
38	The challenge of protecting the perinatal brain against hypoxic ischaemic injury - hasten slowly. *Journal of Physiology*, **2014**, 592, 425-6	3.9	1
37	Could cord blood cell therapy reduce preterm brain injury?. *Frontiers in Neurology*, **2014**, 5, 200	4.1	27
36	Protective ventilation of preterm lambs exposed to acute chorioamnionitis does not reduce ventilation-induced lung or brain injury. *PLoS ONE*, **2014**, 9, e112402	3.7	20
35	Human amnion epithelial cells reduce fetal brain injury in response to intrauterine inflammation. *Developmental Neuroscience*, **2013**, 35, 272-82	2.2	61
34	Antenatal melatonin as an antioxidant in human pregnancies complicated by fetal growth restriction--a phase I pilot clinical trial: study protocol. *BMJ Open*, **2013**, 3, e004141	3	40
33	Stem cell therapy to protect and repair the developing brain: a review of mechanisms of action of cord blood and amnion epithelial derived cells. *Frontiers in Neuroscience*, **2013**, 7, 194	5.1	74
32	Experimental modelling of the consequences of brief late gestation asphyxia on newborn lamb behaviour and brain structure. *PLoS ONE*, **2013**, 8, e77377	3.7	28
31	Effect of Antenatal Steroids on Haemodynamics in the Normally Grown and Growth Restricted Fetus. *Current Pediatric Reviews*, **2013**, 9, 67-74	2.8	6
30	Glucocorticoid treatment does not alter early cardiac adaptations to growth restriction in preterm sheep fetuses. *BJOG: an International Journal of Obstetrics and Gynaecology*, **2012**, 119, 906-14	3.7	8
29	Antenatal glucocorticoids reduce growth in appropriately grown and growth-restricted ovine fetuses in a sex-specific manner. *Reproduction, Fertility and Development*, **2012**, 24, 753-8	1.8	17
28	Human amnion epithelial cells reduce ventilation-induced preterm lung injury in fetal sheep. *American Journal of Obstetrics and Gynecology*, **2012**, 206, 448.e8-15	6.4	73
27	The effects of intrauterine growth restriction and antenatal glucocorticoids on ovine fetal lung development. *Pediatric Research*, **2012**, 71, 689-96	3.2	33
26	Antioxidant therapies: a potential role in perinatal medicine. *Neuroendocrinology*, **2012**, 96, 13-23	5.6	68
25	Mechanisms of melatonin-induced protection in the brain of late gestation fetal sheep in response to hypoxia. *Developmental Neuroscience*, **2012**, 34, 543-51	2.2	45
24	Initiation of resuscitation with high tidal volumes causes cerebral hemodynamic disturbance, brain inflammation and injury in preterm lambs. *PLoS ONE*, **2012**, 7, e39535	3.7	86
23	Anti-inflammatory therapy in an ovine model of fetal hypoxia induced by single umbilical artery ligation. *Reproduction, Fertility and Development*, **2011**, 23, 346-52	1.8	14

22	The effect of hypoxia on the functional and structural development of the chick brain. *International Journal of Developmental Neuroscience*, **2010**, 28, 343-50	2.7	9
21	Cardiovascular responses to maternal betamethasone administration in the intrauterine growth-restricted ovine fetus. *American Journal of Obstetrics and Gynecology*, **2009**, 201, 613.e1-8	6.4	46
20	The effects of sildenafil citrate (Viagra) on uterine blood flow and well being in the intrauterine growth-restricted fetus. *American Journal of Obstetrics and Gynecology*, **2009**, 200, 102.e1-7	6.4	55
19	Importance of adrenergic receptors in prenatally induced cognitive impairment in the domestic chick. *International Journal of Developmental Neuroscience*, **2009**, 27, 27-35	2.7	3
18	The effect of hypoxia at different embryonic ages on impairment of memory ability in chicks. *International Journal of Developmental Neuroscience*, **2008**, 26, 113-8	2.7	14
17	The effects of maternal betamethasone administration on the intrauterine growth-restricted fetus. *Endocrinology*, **2007**, 148, 1288-95	4.8	77
16	The role of corticosterone in prehatch-induced memory deficits in chicks. *Brain Research*, **2006**, 1123, 34-41	3.7	16
15	Chronic fetal hypoxia increases activin A concentrations in the late-pregnant sheep. *BJOG: an International Journal of Obstetrics and Gynaecology*, **2006**, 113, 102-9	3.7	41
14	Melatonin provides neuroprotection in the late-gestation fetal sheep brain in response to umbilical cord occlusion. *Developmental Neuroscience*, **2005**, 27, 200-10	2.2	116
13	Novel method for in vivo hydroxyl radical measurement by microdialysis in fetal sheep brain in utero. *Journal of Applied Physiology*, **2005**, 98, 2304-10	3.7	56
12	Hypoxia induced activin secretion by the fetoplacental unit: differential responses related to gestation. *BJOG: an International Journal of Obstetrics and Gynaecology*, **2004**, 111, 1346-52	3.7	6
11	The effect of prenatal hypoxia and malnutrition on memory consolidation in the chick. *Developmental Brain Research*, **2004**, 148, 113-9		22
10	Cardiovascular and endocrine responses to cutaneous electrical stimulation after fentanyl in the ovine fetus. *American Journal of Obstetrics and Gynecology*, **2004**, 190, 836-42	6.4	11
9	Effect of graded hypoxia on activin A, prostaglandin E2 and cortisol levels in the late-pregnant sheep. *Reproduction, Fertility and Development*, **2004**, 16, 625-32	1.8	10
8	Magnetic resonance proton spectroscopy and diffusion weighted imaging of chick embryo brain in ovo. *Developmental Brain Research*, **2003**, 141, 101-7		16
7	The effect of systemic administration of lipopolysaccharide on cerebral haemodynamics and oxygenation in the 0.65 gestation ovine fetus in utero. *BJOG: an International Journal of Obstetrics and Gynaecology*, **2003**, 110, 735-743	3.7	47
6	The effect of systemic administration of lipopolysaccharide on cerebral haemodynamics and oxygenation in the 0.65 gestation ovine fetus in utero. *BJOG: an International Journal of Obstetrics and Gynaecology*, **2003**, 110, 735-43	3.7	8
5	Effects of chronic hypoxia and protein malnutrition on growth in the developing chick. *American Journal of Obstetrics and Gynecology*, **2002**, 186, 261-7	6.4	70

4	Effect of nitric oxide synthase inhibition on the uterine vasculature of the late-pregnant ewe. *American Journal of Obstetrics and Gynecology*, **1999**, 180, 1138-45	6.4	35
3	Effects of hyperthermia on uterine blood flow and shunting through uterine arteriovenous anastomoses in the late-pregnant ewe. *Reproduction, Fertility and Development*, **1999**, 11, 201-9	1.8	2
2	Physiological evidence for arteriovenous anastomoses in the uterine circulation of late-pregnant ewes. *Clinical and Experimental Pharmacology and Physiology*, **1998**, 25, 92-8	3	2
1	Source of inhibin in ovine fetal plasma and amniotic fluid during late gestation: half-life of fetal inhibin. *Biology of Reproduction*, **1997**, 57, 347-53	3.9	6