Beth A Allison

List of Publications by Year
in descending order

78 papers	2,843 citations	147801 31 h-index	189892 50 g-index
78 all docs	78 docs citations	78 times ranked	2510 citing authors

#	Article	IF	Citations
1	Delaying cord clamping until ventilation onset improves cardiovascular function at birth in preterm lambs. Journal of Physiology, 2013, 591, 2113-2126.	2.9	365
2	Neonatal Morbidities of Fetal Growth Restriction: Pathophysiology and Impact. Frontiers in Endocrinology, 2019, 10, 55.	3.5	237
3	Dynamic changes in the direction of blood flow through the ductus arteriosus at birth. Journal of Physiology, 2009, 587, 4695-4704.	2.9	127
4	An Initial Sustained Inflation Improves the Respiratory and Cardiovascular Transition at Birth in Preterm Lambs. Pediatric Research, 2011, 70, 56-60.	2.3	119
5	Effect of sustained inflation duration; resuscitation of near-term asphyxiated lambs. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2013, 98, F222-F227.	2.8	80
6	Human amnion epithelial cells reduce ventilation-induced preterm lung injury in fetal sheep. American Journal of Obstetrics and Gynecology, 2012, 206, 448.e8-448.e15.	1.3	78
7	Fetal in vivo continuous cardiovascular function during chronic hypoxia. Journal of Physiology, 2016, 594, 1247-1264.	2.9	60
8	Perinatal Brain Injury As a Consequence of Preterm Birth and Intrauterine Inflammation: Designing Targeted Stem Cell Therapies. Frontiers in Neuroscience, 2017, 11, 200.	2.8	59
9	Heart Disease Link to Fetal Hypoxia and Oxidative Stress. Advances in Experimental Medicine and Biology, 2014, 814, 77-87.	1.6	58
10	Cardiovascular and pulmonary consequences of airway recruitment in preterm lambs. Journal of Applied Physiology, 2009, 106, 1347-1355.	2.5	57
11	Altered Lung Motion is a Sensitive Indicator of Regional Lung Disease. Annals of Biomedical Engineering, 2012, 40, 1160-1169.	2.5	56
12	Divergence of mechanistic pathways mediating cardiovascular aging and developmental programming of cardiovascular disease. FASEB Journal, 2016, 30, 1968-1975.	0.5	54
13	Cerebrovascular adaptations to chronic hypoxia in the growth restricted lamb. International Journal of Developmental Neuroscience, 2015, 45, 55-65.	1.6	52
14	Ventilation of the Very Immature Lung In Utero Induces Injury and BPD-Like Changes in Lung Structure in Fetal Sheep. Pediatric Research, 2008, 64, 387-392.	2.3	49
15	Detection and assessment of brain injury in the growth-restricted fetus and neonate. Pediatric Research, 2017, 82, 184-193.	2.3	48
16	Induction of controlled hypoxic pregnancy in large mammalian species. Physiological Reports, 2015, 3, e12614.	1.7	47
17	Preterm growth restriction and bronchopulmonary dysplasia: the vascular hypothesis and related physiology. Journal of Physiology, 2019, 597, 1209-1220.	2.9	46
18	Early- versus Late-Onset Fetal Growth Restriction Differentially Affects the Development of the Fetal Sheep Brain. Developmental Neuroscience, 2017, 39, 141-155.	2.0	43

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19	Intervention against hypertension in the next generation programmed by developmental hypoxia. PLoS Biology, 2019, 17, e2006552.	5.6	43
20	Phase contrast image segmentation using a Laue analyser crystal. Physics in Medicine and Biology, 2011, 56, 515-534.	3.0	42
21	The effects of intrauterine growth restriction and antenatal glucocorticoids on ovine fetal lung development. Pediatric Research, 2012, 71, 689-696.	2.3	41
22	The role of lung inflation and sodium transport in airway liquid clearance during lung aeration in newborn rabbits. Pediatric Research, 2013, 73, 443-449.	2.3	41
23	Melatonin modulates the fetal cardiovascular defense response to acute hypoxia. Journal of Pineal Research, 2015, 59, 80-90.	7.4	41
24	Translatable mitochondria-targeted protection against programmed cardiovascular dysfunction. Science Advances, 2020, 6, eabb1929.	10.3	41
25	Intrauterine inflammation causes pulmonary hypertension and cardiovascular sequelae in preterm lambs. Journal of Applied Physiology, 2010, 108, 1757-1765.	2.5	40
26	Injury and repair in the very immature lung following brief mechanical ventilation. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 301, L917-L926.	2.9	40
27	Inflammation in utero exacerbates ventilation-induced brain injury in preterm lambs. Journal of Applied Physiology, 2012, 112, 481-489.	2.5	39
28	Human Umbilical Cord Blood Therapy Protects Cerebral White Matter from Systemic LPS Exposure in Preterm Fetal Sheep. Developmental Neuroscience, 2018, 40, 258-270.	2.0	37
29	Xanthine oxidase and the fetal cardiovascular defence to hypoxia in late gestation ovine pregnancy. Journal of Physiology, 2014, 592, 475-489.	2.9	36
30	Umbilical cord blood versus mesenchymal stem cells for inflammation-induced preterm brain injury in fetal sheep. Pediatric Research, 2019, 86, 165-173.	2.3	36
31	Cardiac Morphology and Function in Preterm Growth Restricted Infants: Relevance for Clinical Sequelae. Journal of Pediatrics, 2017, 188, 128-134.e2.	1.8	34
32	X-ray phase, absorption and scatter retrieval using two or more phase contrast images. Optics Express, 2010, 18, 19994.	3.4	33
33	Blood Gases and Pulmonary Blood Flow During Resuscitation of Very Preterm Lambs Treated With Antenatal Betamethasone and/or Curosurf: Effect of Positive End-Expiratory Pressure. Pediatric Research, 2007, 62, 37-42.	2.3	31
34	Persistent bronchiolar remodeling following brief ventilation of the very immature ovine lung. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 297, L992-L1001.	2.9	31
35	A role for xanthine oxidase in the control of fetal cardiovascular function in late gestation sheep. Journal of Physiology, 2012, 590, 1825-1837.	2.9	31
36	Term vs. preterm cord blood cells for the prevention of preterm brain injury. Pediatric Research, 2017, 82, 1030-1038.	2.3	31

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37	Altered cardiovascular function at birth in growth-restricted preterm lambs. Pediatric Research, 2016, 80, 538-546.	2.3	29
38	Altered autonomic control of heart rate variability in the chronically hypoxic fetus. Journal of Physiology, 2018, 596, 6105-6119.	2.9	29
39	Maternal Allopurinol Prevents Cardiac Dysfunction in Adult Male Offspring Programmed by Chronic Hypoxia During Pregnancy. Hypertension, 2018, 72, 971-978.	2.7	29
40	Vascular aging and cardiac maladaptation in growth-restricted preterm infants. Journal of Perinatology, 2018, 38, 92-97.	2.0	27
41	Antenatal Corticosteroids Increase Fetal, But Not Postnatal, Pulmonary Blood Flow in Sheep. Pediatric Research, 2009, 66, 283-288.	2.3	24
42	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.	1.8	24
43	Differential effect of recruitment maneuvres on pulmonary blood flow and oxygenation during HFOV in preterm lambs. Journal of Applied Physiology, 2008, 105, 603-610.	2.5	23
44	The cerebral critical oxygen threshold of ventilated preterm lambs and the influence of antenatal inflammation. Journal of Applied Physiology, 2011, 111, 775-781.	2.5	21
45	Neurovascular effects of umbilical cord blood-derived stem cells in growth-restricted newborn lambs. Stem Cell Research and Therapy, 2020, 11, 17.	5.5	20
46	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-L223.	2.9	19
47	Placental histopathology in preterm fetal growth restriction. Journal of Paediatrics and Child Health, 2019, 55, 582-587.	0.8	19
48	Maternal chronic hypoxia increases expression of genes regulating lung liquid movement and surfactant maturation in male fetuses in late gestation. Journal of Physiology, 2017, 595, 4329-4350.	2.9	17
49	Effects of antenatal melatonin therapy on lung structure in growth-restricted newborn lambs. Journal of Applied Physiology, 2017, 123, 1195-1203.	2.5	17
50	Moderate preterm birth affects right ventricular structure and function and pulmonary artery blood flow in adult sheep. Journal of Physiology, 2018, 596, 5965-5975.	2.9	17
51	Altered trajectory of neurodevelopment associated with fetal growth restriction. Experimental Neurology, 2022, 347, 113885.	4.1	17
52	Chronic Hypoxia in Ovine Pregnancy Recapitulates Physiological and Molecular Markers of Preeclampsia in the Mother, Placenta, and Offspring. Hypertension, 2022, 79, 1525-1535.	2.7	17
53	Assessment of gas flow waves for endotracheal tube placement in an ovine model of neonatal resuscitation. Resuscitation, 2010, 81, 737-741.	3.0	16
54	Effects of Maternal Sildenafil Treatment on Vascular Function in Growth-Restricted Fetal Sheep. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 731-740.	2.4	16

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55	Ventilation and Oxygen: Dose-Related Effects of Oxygen on Ventilation-Induced Lung Injury. Pediatric Research, 2010, 67, 238-243.	2.3	15
56	Effects of caffeine on renal and pulmonary function in preterm newborn lambs. Pediatric Research, 2012, 72, 19-25.	2.3	15
57	Cardiovascular and Cerebrovascular Implications of Growth Restriction: Mechanisms and Potential Treatments. International Journal of Molecular Sciences, 2021, 22, 7555.	4.1	12
58	Dose-dependent exacerbation of ventilation-induced lung injury by erythropoietin in preterm newborn lambs. Journal of Applied Physiology, 2019, 126, 44-50.	2.5	11
59	Maternal sildenafil impairs the cardiovascular adaptations to chronic hypoxaemia in fetal sheep. Journal of Physiology, 2020, 598, 4405-4419.	2.9	11
60	Increased lung expansion alters lung growth but not alveolar epithelial cell differentiation in newborn lambs. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2007, 292, L454-L461.	2.9	9
61	Altered Cardiovascular Defense to Hypotensive Stress in the Chronically Hypoxic Fetus. Hypertension, 2020, 76, 1195-1207.	2.7	9
62	Impact of Acute and Chronic Hypoxia-Ischemia on the Transitional Circulation. Pediatrics, 2021, 147, .	2.1	9
63	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.	1.4	8
64	Maternal and fetal cardiometabolic recovery following ultrasound-guided high-intensity focused ultrasound placental vascular occlusion. Journal of the Royal Society Interface, 2019, 16, 20190013.	3.4	8
65	Pulmonary hemodynamic responses to in utero ventilation in very immature fetal sheep. Respiratory Research, 2010, 11, 111.	3.6	7
66	Cardiopulmonary haemodynamics in lambs during induced capillary leakage immediately after preterm birth. Clinical and Experimental Pharmacology and Physiology, 2011, 38, 222-228.	1.9	7
67	Betamethasone-exposed preterm birth does not impair insulin action in adult sheep. Journal of Endocrinology, 2017, 232, 175-187.	2.6	6
68	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.	2.3	6
69	Comparison of the In Vivo Hemodynamic Effects of the Antiarrhythmic Agents Vernakalant and Flecainide in a Rat Hindlimb Perfusion Model. Journal of Cardiovascular Pharmacology, 2011, 57, 463-468.	1.9	5
70	Molecular regulation of lung maturation in near-term fetal sheep by maternal daily vitamin C treatment in late gestation. Pediatric Research, 2022, 91, 828-838.	2.3	5
71	Effect of betamethasone, surfactant, and positive end-expiratory pressures on lung aeration at birth in preterm rabbits. Journal of Applied Physiology, 2016, 121, 750-759.	2.5	4
72	The effect of sex and prematurity on the cardiovascular baroreflex response in sheep. Experimental Physiology, 2018, 103, 9-18.	2.0	4

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73	Umbilical Cord Blood Cells Do Not Reduce Ventilation-Induced Lung Injury in Preterm Lambs. Frontiers in Physiology, 2020, 11, 119.	2.8	4
74	Does Antenatal Betamethasone Alter White Matter Brain Development in Growth Restricted Fetal Sheep?. Frontiers in Cellular Neuroscience, 2020, 14, 100.	3.7	3
75	Early impact of moderate preterm birth on the structure, function and gene expression of conduit arteries. Experimental Physiology, 2020, 105, 1256-1267.	2.0	1
76	Changing Oxygen Concentration in the Delivery Room: You May Not Get What You Expect. Pediatric Research, 2011, 70, 559-559.	2.3	0
77	Trust the heart to save the brain: changes in heart rate patterns have the potential to be a biomarker for hypoxic ischaemic brain injury. Journal of Physiology, 2019, 597, 5519-5520.	2.9	0
78	Is Umbilical Cord Blood Therapy an Effective Treatment for Early Lung Injury in Growth Restriction?. Frontiers in Endocrinology, 2020, 11, 86.	3.5	0