Stuart Brian Hooper

List of Publications by Year
in descending order

184	7,324	50170	74018
papers	citations	46 h-index	75 g-index

185	185	185	3758
all docs	docs citations	times ranked	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.	1.3	365
2	Regulation of lung expansion and lung growth before birth. Journal of Applied Physiology, 1996, 81, 209-224.	1.2	332
3	FETAL LUNG LIQUID: A MAJOR DETERMINANT OF THE GROWTH AND FUNCTIONAL DEVELOPMENT OF THE FETAL LUNG. Clinical and Experimental Pharmacology and Physiology, 1995, 22, 235-241.	0.9	226
4	Establishing Functional Residual Capacity at Birth: The Effect of Sustained Inflation and Positive End-Expiratory Pressure in a Preterm Rabbit Model. Pediatric Research, 2009, 65, 537-541.	1.1	178
5	Imaging lung aeration and lung liquid clearance at birth. FASEB Journal, 2007, 21, 3329-3337.	0.2	177
6	From Liquid to Air: Breathing after Birth. Journal of Pediatrics, 2008, 152, 607-611.	0.9	176
7	Cardiovascular transition at birth: a physiological sequence. Pediatric Research, 2015, 77, 608-614.	1.1	170
8	Effect of Sustained Inflation Length on Establishing Functional Residual Capacity at Birth in Ventilated Premature Rabbits. Pediatric Research, 2009, 66, 295-300.	1.1	141
9	Positive end-expiratory pressure enhances development of a functional residual capacity in preterm rabbits ventilated from birth. Journal of Applied Physiology, 2009, 106, 1487-1493.	1.2	134
10	Dynamic changes in the direction of blood flow through the ductus arteriosus at birth. Journal of Physiology, 2009, 587, 4695-4704.	1.3	127
11	An Initial Sustained Inflation Improves the Respiratory and Cardiovascular Transition at Birth in Preterm Lambs. Pediatric Research, 2011, 70, 56-60.	1.1	119
12	Positive End Expiratory Pressure during Resuscitation of Premature Lambs Rapidly Improves Blood Gases without Adversely Affecting Arterial Pressure. Pediatric Research, 2004, 56, 198-204.	1.1	117
13	The vulnerability of the fetal sheep brain to hypoxemia at mid-gestation. Developmental Brain Research, 1997, 103, 103-118.	2.1	116
14	Pulse Oximetry Measures a Lower Heart Rate at Birth Compared withÂElectrocardiography. Journal of Pediatrics, 2015, 166, 49-53.	0.9	114
15	Ventilation Onset Prior to Umbilical Cord Clamping (Physiological-Based Cord Clamping) Improves Systemic and Cerebral Oxygenation in Preterm Lambs. PLoS ONE, 2015, 10, e0117504.	1.1	112
16	Initiation of Resuscitation with High Tidal Volumes Causes Cerebral Hemodynamic Disturbance, Brain Inflammation and Injury in Preterm Lambs. PLoS ONE, 2012, 7, e39535.	1.1	107
17	Inspiration regulates the rate and temporal pattern of lung liquid clearance and lung aeration at birth. Journal of Applied Physiology, 2009, 106, 1888-1895.	1.2	100
18	Positive end-expiratory pressure differentially alters pulmonary hemodynamics and oxygenation in ventilated, very premature lambs. Journal of Applied Physiology, 2005, 99, 1453-1461.	1.2	92

#	Article	IF	Citations
19	Lung Hypoplasia Can Be Reversed by Short-Term Obstruction of the Trachea in Fetal Sheep. Pediatric Research, 1995, 38, 690-696.	1.1	88
20	Phase contrast X-ray imaging of mice and rabbit lungs: a comparative study. British Journal of Radiology, 2005, 78, 1018-1027.	1.0	81
21	Synchrotron-based dynamic computed tomography of tissue motion for regional lung function measurement. Journal of the Royal Society Interface, 2012, 9, 2213-2224.	1.5	80
22	Effects of intrauterine growth restriction on lung liquid dynamics and lung development in fetal sheep. American Journal of Obstetrics and Gynecology, 2001, 184, 209-216.	0.7	79
23	Altered Epithelial Cell Proportions in the Fetal Lung of Glucocorticoid Receptor Null Mice. American Journal of Respiratory Cell and Molecular Biology, 2004, 30, 613-619.	1.4	79
24	Evaluating Manual Inflations and Breathing during Mask Ventilation inÂPreterm Infants at Birth. Journal of Pediatrics, 2013, 162, 457-463.	0.9	79
25	Trop2: From development to disease. Developmental Dynamics, 2015, 244, 99-109.	0.8	79
26	Compromised Respiratory Function in Postnatal Lambs after Placental Insufficiency and Intrauterine Growth Restriction. Pediatric Research, 2001, 50, 641-649.	1.1	75
27	Expired CO2 Levels Indicate Degree of Lung Aeration at Birth. PLoS ONE, 2013, 8, e70895.	1.1	75
28	The past, present, and future of x-ray technology for in vivo imaging of function and form. Journal of Applied Physics, 2009, 105, .	1.1	72
29	Towards evidence-based resuscitation of the newborn infant. Lancet, The, 2017, 389, 1639-1648.	6.3	68
30	Cardiopulmonary changes with aeration of the newborn lung. Paediatric Respiratory Reviews, 2015, 16, 147-150.	1.2	66
31	IMAGING LUNG AERATION AND LUNG LIQUID CLEARANCE AT BIRTH USING PHASE CONTRAST Xâ€RAY IMAGING. Clinical and Experimental Pharmacology and Physiology, 2009, 36, 117-125.	0.9	64
32	Respiratory support for premature neonates in the delivery room: effects on cardiovascular function and the development of brain injury. Pediatric Research, 2014, 75, 682-688.	1.1	63
33	Ventilation before Umbilical Cord Clamping Improves the Physiological Transition at Birth. Frontiers in Pediatrics, 2014, 2, 113.	0.9	61
34	Minireview: Glucocorticoid Regulation of Lung Development: Lessons Learned From Conditional GR Knockout Mice. Molecular Endocrinology, 2015, 29, 158-171.	3.7	59
35	Altered Lung Motion is a Sensitive Indicator of Regional Lung Disease. Annals of Biomedical Engineering, 2012, 40, 1160-1169.	1.3	56
36	The Compromised Intra-Uterine Environment: Implications For Future Lung Health. Clinical and Experimental Pharmacology and Physiology, 2000, 27, 965-974.	0.9	55

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37	CHANGES IN LUNG STRUCTURE AND CELLULAR DIVISION INDUCED BY TRACHEAL OBSTRUCTION IN FETAL SHEEP. Experimental Lung Research, 2000, 26, 105-119.	0.5	55
38	Noninvasive measurements of hemodynamic transition directly after birth. Pediatric Research, 2014, 75, 448-452.	1.1	55
39	Increase in pulmonary blood flow at birth: role of oxygen and lung aeration. Journal of Physiology, 2016, 594, 1389-1398.	1.3	55
40	Influence of Fetal Breathing Movements on Pulmonary Hemodynamics in Fetal Sheep. Pediatric Research, 2004, 56, 932-938.	1.1	54
41	Baby-directed umbilical cord clamping: A feasibility study. Resuscitation, 2018, 131, 1-7.	1.3	54
42	Physiological-based cord clamping in very preterm infants â€" Randomised controlled trial on effectiveness of stabilisation. Resuscitation, 2020, 147, 26-33.	1.3	53
43	Determination of alveolar epithelial cell phenotypes in fetal sheep: evidence for the involvement of basal lung expansion. Journal of Physiology, 2002, 542, 245-253.	1.3	49
44	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.	1.1	49
45	Effect of Gestational Age on the Increase in Fetal Lung Growth Following Tracheal Obstruction. Experimental Lung Research, 1996, 22, 283-298.	0.5	48
46	The effect of a face mask for respiratory support on breathing in preterm infants at birth. Resuscitation, 2019, 144, 178-184.	1.3	48
47	Aquaporin gene expression and regulation in the ovine fetal lung. Journal of Physiology, 2003, 551, 503-514.	1.3	47
48	Identification of glucocorticoidâ€regulated genes that control cell proliferation during murine respiratory development. Journal of Physiology, 2007, 585, 187-201.	1.3	45
49	Role of fetal breathing movements in control of fetal lung distension. Journal of Applied Physiology, 1993, 75, 2711-2717.	1.2	44
50	Cardiorespiratory Monitoring during Neonatal Resuscitation for Direct Feedback and Audit. Frontiers in Pediatrics, 2016, 4, 38.	0.9	44
51	Lung liquid production rates and volumes do not decrease before labor in healthy fetal sheep. Journal of Applied Physiology, 1997, 82, 927-932.	1.2	43
52	Repetitive versus standard tactile stimulation of preterm infants at birth â€" A randomized controlled trial. Resuscitation, 2018, 127, 37-43.	1.3	42
53	The role of lung inflation and sodium transport in airway liquid clearance during lung aeration in newborn rabbits. Pediatric Research, 2013, 73, 443-449.	1.1	41
54	Ventilation/perfusion mismatch during lung aeration at birth. Journal of Applied Physiology, 2014, 117, 535-543.	1.2	41

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55	Surfactant before the first inflation at birth improves spatial distribution of ventilation and reduces lung injury in preterm lambs. Journal of Applied Physiology, 2014, 116, 251-258.	1.2	41
56	Intrauterine inflammation causes pulmonary hypertension and cardiovascular sequelae in preterm lambs. Journal of Applied Physiology, 2010, 108, 1757-1765.	1.2	40
57	Unraveling the Links Between the Initiation of Ventilation and Brain Injury in Preterm Infants. Frontiers in Pediatrics, 2015, 3, 97.	0.9	40
58	Inflammation in utero exacerbates ventilation-induced brain injury in preterm lambs. Journal of Applied Physiology, 2012, 112, 481-489.	1.2	39
59	The Effect of Initial High vs. Low FiO2 on Breathing Effort in Preterm Infants at Birth: A Randomized Controlled Trial. Frontiers in Pediatrics, 2019, 7, 504.	0.9	39
60	Gene expression profiling during increased fetal lung expansion identifies genes likely to regulate development of the distal airways. Physiological Genomics, 2006, 24, 105-113.	1.0	37
61	Surfactant Increases the Uniformity of Lung Aeration at Birth in Ventilated Preterm Rabbits. Pediatric Research, 2011, 70, 50-55.	1.1	37
62	Mesenchymal Glucocorticoid Receptor Regulates the Development of Multiple Cell Layers of the Mouse Lung. American Journal of Respiratory Cell and Molecular Biology, 2014, 50, 419-428.	1.4	37
63	A new design for high stability pressure-controlled ventilation for small animal lung imaging. Journal of Instrumentation, 2010, 5, T02002-T02002.	0.5	36
64	Role of luminal volume changes in the increase in pulmonary blood flow at birth in sheep. Experimental Physiology, 1998, 83, 833-842.	0.9	35
65	Prenatal diagnosis and management of congenital diaphragmatic hernia. Best Practice and Research in Clinical Obstetrics and Gynaecology, 2019, 58, 93-106.	1.4	35
66	ROLE OF THE PHYSICOCHEMICAL ENVIRONMENT IN LUNG DEVELOPMENT. Clinical and Experimental Pharmacology and Physiology, 2006, 33, 273-279.	0.9	34
67	Tactile Stimulation to Stimulate Spontaneous Breathing during Stabilization of Preterm Infants at Birth: A Retrospective Analysis. Frontiers in Pediatrics, 2017, 5, 61.	0.9	34
68	Role of Aeration in the Physiological Adaptation of the Lung to Air- Breathing at Birth. Current Respiratory Medicine Reviews, 2005, 1, 185-195.	0.1	33
69	X-ray phase, absorption and scatter retrieval using two or more phase contrast images. Optics Express, 2010, 18, 19994.	1.7	33
70	Human amnion cells for the prevention of bronchopulmonary dysplasia: a protocol for a phase I dose escalation study. BMJ Open, 2019, 9, e026265.	0.8	32
71	Effect of Increased Lung Expansion on Lung Growth and Development Near Midgestation in Fetal Sheep. Pediatric Research, 2000, 47, 806-812.	1.1	32
72	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.	1.1	31

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73	Haemodynamic Instability and Brain Injury in Neonates Exposed to Hypoxiaâ€“Ischaemia. Brain Sciences, 2019, 9, 49.	1.1	30
74	Altered cardiovascular function at birth in growth-restricted preterm lambs. Pediatric Research, 2016, 80, 538-546.	1.1	29
75	Lung ultrasound during the initiation of breathing in healthy term and late preterm infants immediately after birth, a prospective, observational study. Resuscitation, 2017, 114, 59-65.	1.3	29
76	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.	1.1	29
77	Effects of tidal volume and positive end-expiratory pressure during resuscitation of very premature lambs. Acta Paediatrica, International Journal of Paediatrics, 2005, 94, 1764-1770.	0.7	28
78	Effects of chest compressions on cardiovascular and cerebral hemodynamics in asphyxiated near-term lambs. Pediatric Research, 2015, 78, 395-400.	1.1	28
79	Early Detection of Ventilation-Induced Brain Injury Using Magnetic Resonance Spectroscopy and Diffusion Tensor Imaging: An In Vivo Study in Preterm Lambs. PLoS ONE, 2014, 9, e95804.	1.1	27
80	Assessment of airway response distribution and paradoxical airway dilation in mice during methacholine challenge. Journal of Applied Physiology, 2017, 122, 503-510.	1.2	26
81	The physiology of neonatal resuscitation. Current Opinion in Pediatrics, 2018, 30, 187-191.	1.0	26
82	Fetal metabolic responses to hypoxia. Reproduction, Fertility and Development, 1995, 7, 527.	0.1	26
83	cAMP Response Element Binding Protein Is Required for Differentiation of Respiratory Epithelium during Murine Development. PLoS ONE, 2011, 6, e17843.	1.1	26
84	Cortisol enhances structural maturation of the hypoplastic fetal lung in sheep. Journal of Physiology, 2004, 554, 505-517.	1.3	25
85	Pulmonary function and structure following mild preterm birth in lambs. Pediatric Pulmonology, 2005, 40, 336-348.	1.0	25
86	The Effects of Nasal Continuous Positive Airway Pressure on Cardiac Function in Premature Infants with Minimal Lung Disease: A Crossover Randomized Trial. Journal of Pediatrics, 2014, 164, 726-729.	0.9	25
87	Protective Ventilation of Preterm Lambs Exposed to Acute Chorioamnionitis Does Not Reduce Ventilation-Induced Lung or Brain Injury. PLoS ONE, 2014, 9, e112402.	1.1	25
88	Antenatal Corticosteroids Increase Fetal, But Not Postnatal, Pulmonary Blood Flow in Sheep. Pediatric Research, 2009, 66, 283-288.	1.1	24
89	Establishing Functional Residual Capacity at Birth. NeoReviews, 2010, 11, e474-e483.	0.4	24
90	Respiratory function in lambs after in utero treatment of lung hypoplasia by tracheal obstruction. Journal of Applied Physiology, 1999, 87, 2296-2304.	1.2	23

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91	Differential effect of recruitment maneuvres on pulmonary blood flow and oxygenation during HFOV in preterm lambs. Journal of Applied Physiology, 2008, 105, 603-610.	1.2	23
92	Optimizing lung aeration at birth using a sustained inflation and positive pressure ventilation in preterm rabbits. Pediatric Research, 2016, 80, 85-91.	1.1	23
93	Increasing Respiratory Effort With 100% Oxygen During Resuscitation of Preterm Rabbits at Birth. Frontiers in Pediatrics, 2019, 7, 427.	0.9	23
94	Comparison of Two Respiratory Support Strategies for Stabilization of Very Preterm Infants at Birth: A Matched-Pairs Analysis. Frontiers in Pediatrics, 2019, 7, 3.	0.9	23
95	Changes in Positive End-Expiratory Pressure Alter the Distribution of Ventilation within the Lung Immediately after Birth in Newborn Rabbits. PLoS ONE, 2014, 9, e93391.	1.1	23
96	Structural and Functional Development of the Respiratory System in a Newborn Marsupial with Cutaneous Gas Exchange. Physiological and Biochemical Zoology, 2011, 84, 634-649.	0.6	22
97	Intrauterine inflammation alters cardiopulmonary and cerebral haemodynamics at birth in preterm lambs. Journal of Physiology, 2013, 591, 2127-2137.	1.3	22
98	Elevated airway liquid volumes at birth: a potential cause of transient tachypnea of the newborn. Journal of Applied Physiology, 2017, 123, 1204-1213.	1.2	22
99	The cerebral critical oxygen threshold of ventilated preterm lambs and the influence of antenatal inflammation. Journal of Applied Physiology, 2011, 111, 775-781.	1.2	21
100	The perfusion index of healthy term infants during transition at birth. European Journal of Pediatrics, 2016, 175, 475-479.	1.3	21
101	Physiological effects of partial amniotic carbon dioxide insufflation with cold, dry vs heated, humidified gas in a sheep model. Ultrasound in Obstetrics and Gynecology, 2019, 53, 340-347.	0.9	21
102	Effect of Lung Hypoplasia on Birth-Related Changes in the Pulmonary Circulation in Sheep. Pediatric Research, 2005, 57, 530-536.	1.1	20
103	Effect of Tactile Stimulation on Termination and Prevention of Apnea of Prematurity: A Systematic Review. Frontiers in Pediatrics, 2018, 6, 45.	0.9	20
104	Circulatory Responses to Asphyxia Differ if the Asphyxia Occurs In Utero or Ex Utero in Near-Term Lambs. PLoS ONE, 2014, 9, e112264.	1.1	19
105	Very Preterm Infants Failing CPAP Show Signs of Fatigue Immediately after Birth. PLoS ONE, 2015, 10, e0129592.	1.1	19
106	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.	1.8	19
107	Establishment of functional residual capacity at birth: Observational study of 821 neonatal resuscitations. Resuscitation, 2020, 153, 71-78.	1.3	19
108	Intrauterine inflammation alters fetal cardiopulmonary and cerebral haemodynamics in sheep. Journal of Physiology, 2013, 591, 5061-5070.	1.3	18

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109	Real-time measurement of alveolar size and population using phase contrast x-ray imaging. Biomedical Optics Express, 2014, 5, 4024.	1.5	18
110	Vagal denervation inhibits the increase in pulmonary blood flow during partial lung aeration at birth. Journal of Physiology, 2017, 595, 1593-1606.	1.3	18
111	Antenatal sildenafil treatment improves neonatal pulmonary hemodynamics and gas exchange in lambs with diaphragmatic hernia. Ultrasound in Obstetrics and Gynecology, 2019, 54, 506-516.	0.9	18
112	Cardiopulmonary Resuscitation of Asystolic Newborn Lambs Prior to Umbilical Cord Clamping; the Timing of Cord Clamping Matters!. Frontiers in Physiology, 2020, 11, 902.	1.3	18
113	Stimulation of lung growth in fetuses with lung hypoplasia leads to altered postnatal lung structure in sheep. Pediatric Pulmonology, 2001, 32, 267-276.	1.0	18
114	Role of Intra-Luminal Pressure in Regulating PBF in the Fetus and After Birth. Current Pediatric Reviews, 2006, 2, 287-299.	0.4	17
115	Intrauterine Growth Restriction Alters the Postnatal Development of the Rat Cerebellum. Developmental Neuroscience, 2017, 39, 215-227.	1.0	17
116	Respiratory changes in term infants immediately after birth. Resuscitation, 2018, 130, 105-110.	1.3	17
117	A randomized trial of oropharyngeal airways to assist stabilization of preterm infants in the delivery room. Resuscitation, 2019, 144, 106-114.	1.3	17
118	Effectiveness of Stabilization of Preterm Infants With Intact Umbilical Cord Using a Purpose-Built Resuscitation Tableâ€"Study Protocol for a Randomized Controlled Trial. Frontiers in Pediatrics, 2019, 7, 134.	0.9	17
119	Assessment of gas flow waves for endotracheal tube placement in an ovine model of neonatal resuscitation. Resuscitation, 2010, 81, 737-741.	1.3	16
120	Measurement of absolute regional lung air volumes from near-field x-ray speckles. Optics Express, 2013, 21, 27905.	1.7	16
121	Mechanical Ventilation Injury and Repair in Extremely and Very Preterm Lungs. PLoS ONE, 2013, 8, e63905.	1.1	16
122	Stimulating and maintaining spontaneous breathing during transition of preterm infants. Pediatric Research, 2021, 90, 722-730.	1.1	16
123	Systematic review and network meta-analysis with individual participant data on cord management at preterm birth (iCOMP): study protocol. BMJ Open, 2020, 10, e034595.	0.8	16
124	Increases in lung expansion alter pulmonary hemodynamics in fetal sheep. Journal of Applied Physiology, 2006, 101, 273-282.	1.2	15
125	Deriving Respiratory Cell Types from Stem Cells. Current Stem Cell Research and Therapy, 2007, 2, 197-208.	0.6	15
126	Thrombospondinâ€1 expression and localization in the developing ovine lung. Journal of Physiology, 2007, 584, 625-635.	1.3	15

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127	Simultaneous acquisition of dual analyser-based phase contrast X-ray images for small animal imaging. European Journal of Radiology, 2008, 68, S49-S53.	1.2	15
128	Ventilation and Oxygen: Dose-Related Effects of Oxygen on Ventilation-Induced Lung Injury. Pediatric Research, 2010, 67, 238-243.	1.1	15
129	Effects of caffeine on renal and pulmonary function in preterm newborn lambs. Pediatric Research, 2012, 72, 19-25.	1.1	15
130	Accuracy of currently available neonatal respiratory function monitors for neonatal resuscitation. European Journal of Pediatrics, 2016, 175, 1065-1070.	1.3	15
131	PULMONARY ELASTIN SYNTHESIS AND DEPOSITION IN DEVELOPING AND MATURE SHEEP: EFFECTS OF INTRAUTERINE GROWTH RESTRICTION. Experimental Lung Research, 2004, 30, 405-418.	0.5	14
132	Alveolar Epithelial Cell Differentiation and Surfactant Protein Expression After Mild Preterm Birth in Sheep. Pediatric Research, 2006, 59, 151-156.	1.1	14
133	Establishing lung gas volumes at birth: interaction between positive end-expiratory pressures and tidal volumes in preterm rabbits. Pediatric Research, 2013, 73, 734-741.	1.1	14
134	Lung hypoplasia in newborn rabbits with a diaphragmatic hernia affects pulmonary ventilation but not perfusion. Pediatric Research, 2017, 82, 536-543.	1.1	14
135	The Breathing Effort of Very Preterm Infants at Birth. Journal of Pediatrics, 2018, 194, 54-59.	0.9	14
136	Role of platelet-derived growth factor-B, vascular endothelial growth factor, insulin-like growth factor-II, mitogen-activated protein kinase and transforming growth factor-Î²1 in expansion-induced lung growth in fetal sheep. Reproduction, Fertility and Development, 2006, 18, 655.	0.1	13
137	The cardiopulmonary haemodynamic transition at birth is not different between male and female preterm lambs. Reproduction, Fertility and Development, 2012, 24, 510.	0.1	13
138	Antenatal Medical Therapies to Improve Lung Development in Congenital Diaphragmatic Hernia. American Journal of Perinatology, 2018, 35, 823-836.	0.6	13
139	Lower back-up rates improve ventilator triggering during assist-control ventilation: a randomized crossover trial. Journal of Perinatology, 2012, 32, 111-116.	0.9	12
140	The Administration of 100% Oxygen and Respiratory Drive in Very Preterm Infants at Birth. PLoS ONE, 2013, 8, e76898.	1.1	12
141	Time to achieve desired fraction of inspired oxygen using a T-piece ventilator during resuscitation of preterm infants at birth. Resuscitation, 2019, 136, 100-104.	1.3	12
142	Effects of antenatal corticosteroid treatment on pulmonary ventilation and circulation in neonatal lambs with hypoplastic lungs. Pediatric Pulmonology, 2006, 41, 844-854.	1.0	11
143	The effects of partial amniotic carbon dioxide insufflation in an ovine model. Prenatal Diagnosis, 2018, 38, 994-1003.	1.1	11
144	Dose-dependent exacerbation of ventilation-induced lung injury by erythropoietin in preterm newborn lambs. Journal of Applied Physiology, 2019, 126, 44-50.	1.2	11

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145	Re-Expression of Pulmonary Surfactant Proteins Following Tracheal Obstruction in Fetal Sheep. Experimental Physiology, 2001, 86, 55-63.	0.9	10
146	Functional Lung Imaging during HFV in Preterm Rabbits. PLoS ONE, 2012, 7, e48122.	1.1	10
147	Novel Approaches to Neonatal Resuscitation and the Impact on Birth Asphyxia. Clinics in Perinatology, 2016, 43, 455-467.	0.8	10
148	Erythropoietin Protects Against Lipopolysaccharide-Induced Microgliosis and Abnormal Granule Cell Development in the Ovine Fetal Cerebellum. Frontiers in Cellular Neuroscience, 2017, 11, 224.	1.8	10
149	Partial amniotic carbon dioxide insufflation for fetal surgery. Prenatal Diagnosis, 2018, 38, 983-993.	1.1	10
150	Material Decomposition Using Spectral Propagation-Based Phase-Contrast X-Ray Imaging. IEEE Transactions on Medical Imaging, 2020, 39, 3891-3899.	5.4	10
151	Effect of prolonged catecholamine infusion on heart rate, blood pressure, breathing, and growth in fetal sheep. Canadian Journal of Physiology and Pharmacology, 1995, 73, 1750-1758.	0.7	9
152	Effect of Increased Lung Expansion on Surfactant Protein mRNA Levels in Lambs. Pediatric Research, 2001, 50, 720-725.	1.1	9
153	Effects of Intrauterine Inflammation on Cortical Gray Matter of Near-Term Lambs. Frontiers in Pediatrics, 2018, 6, 145.	0.9	9
154	Transfusion or Timing: The Role of Blood Volume in Delayed Cord Clamping During the Cardiovascular Transition at Birth. Frontiers in Pediatrics, 2019, 7, 405.	0.9	9
155	Does detection of fetal growth restriction improve neonatal outcomes?. Journal of Paediatrics and Child Health, 2021, 57, 677-683.	0.4	9
156	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.	0.7	8
157	Acidaemia enhances the inhibitory effect of hypoxia on fetal lung liquid secretion in sheep. Reproduction, Fertility and Development, 1996, 8, 327.	0.1	8
158	Cardiopulmonary haemodynamics in lambs during induced capillary leakage immediately after preterm birth. Clinical and Experimental Pharmacology and Physiology, 2011, 38, 222-228.	0.9	7
159	Lung ultrasound accurately detects pneumothorax in a preterm newborn lamb model. Journal of Paediatrics and Child Health, 2016, 52, 643-648.	0.4	7
160	Ventilation Prior to Umbilical Cord Clamping Improves Cardiovascular Stability and Oxygenation in Preterm Lambs After Exposure to Intrauterine Inflammation. Frontiers in Pediatrics, 2018, 6, 286.	0.9	7
161	Effect of lung hypoplasia on the cardiorespiratory transition in newborn lambs. Journal of Applied Physiology, 2019, 127, 568-578.	1.2	7
162	Improving Newborn Respiratory Outcomes With a Sustained Inflation: A Systematic Narrative Review of Factors Regulating Outcome in Animal and Clinical Studies. Frontiers in Pediatrics, 2020, 8, 516698.	0.9	7

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163	Comparing the effect of two different interfaces on breathing of preterm infants at birth: A matched-pairs analysis. Resuscitation, 2020, 157, 60-66.	1.3	7
164	Emphysema quantified: mapping regional airway dimensions using 2D phase contrast X-ray imaging. Biomedical Optics Express, 2020, 11, 4176.	1.5	7
165	High vs. Low Initial Oxygen to Improve the Breathing Effort of Preterm Infants at Birth: Study Protocol for a Randomized Controlled Trial. Frontiers in Pediatrics, 2019, 7, 179.	0.9	6
166	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.	1.1	6
167	Intrauterine inflammation alters cardiopulmonary but not cerebral hemodynamics during open endotracheal tube suction in preterm lambs. Pediatric Research, 2013, 74, 48-53.	1.1	5
168	Hemodynamic Effects of Nasal Continuous Positive Airway Pressure inÂPreterm Infants with Evolving Chronic Lung Disease, AÂCrossoverÂRandomized Trial. Journal of Pediatrics, 2015, 166, 477-479.	0.9	5
169	The Effect of Antenatal Betamethasone on White Matter Inflammation and Injury in Fetal Sheep and Ventilated Preterm Lambs. Developmental Neuroscience, 2018, 40, 497-507.	1.0	5
170	Improving lung aeration in ventilated newborn preterm rabbits with a partially aerated lung. Journal of Applied Physiology, 2020, 129, 891-900.	1.2	5
171	Efficacy of Intravenous, Endotracheal, or Nasal Adrenaline Administration During Resuscitation of Near-Term Asphyxiated Lambs. Frontiers in Pediatrics, 2020, 8, 262.	0.9	5
172	EFFECTS OF PROSTAGLANDIN E2ON RENAL FUNCTION AND LUNG LIQUID DYNAMICS IN FOETAL SHEEP. Clinical and Experimental Pharmacology and Physiology, 1998, 25, 805-812.	0.9	4
173	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.	1.2	4
174	Seeing the fetus from a DOHaD perspective: discussion paper from the advanced imaging techniques of DOHaD applications workshop held at the 2019 DOHaD World Congress. Journal of Developmental Origins of Health and Disease, 2021, 12, 153-167.	0.7	4
175	Combined Lung Imaging and Respiratory Physiology Research at SPring-8. Synchrotron Radiation News, 2011, 24, 19-23.	0.2	3
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