

Sean W Limesand

List of Publications by Year in descending order

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98
papers

3,150
citations

136885

32
h-index

182361

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docs citations

99
times ranked

2111
citing authors

#	ARTICLE	IF	CITATIONS
1	Tissue-specific responses that constrain glucose oxidation and increase lactate production with the severity of hypoxemia in fetal sheep. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2022, 322, E181-E196.	1.8	5
2	Hepatic Lipid Accumulation and Dysregulation Associate with Enhanced Reactive Oxygen Species and Pro-Inflammatory Cytokine in Low-Birth-Weight Goats. <i>Animals</i> , 2022, 12, 766.	1.0	2
3	Prenatal Oxygen and Glucose Therapy Normalizes Insulin Secretion and Action in Growth Restricted Fetal Sheep. <i>Endocrinology</i> , 2022, , .	1.4	3
4	Pancreatic Islets Exhibit Dysregulated Adaptation of Insulin Secretion after Chronic Epinephrine Exposure. <i>Current Issues in Molecular Biology</i> , 2021, 43, 240-250.	1.0	5
5	Dimming the Powerhouse: Mitochondrial Dysfunction in the Liver and Skeletal Muscle of Intrauterine Growth Restricted Fetuses. <i>Frontiers in Endocrinology</i> , 2021, 12, 612888.	1.5	28
6	Augmented glucose production is not contingent on high catecholamines in fetal sheep with IUGR. <i>Journal of Endocrinology</i> , 2021, 249, 195-207.	1.2	11
7	Uteroplacental nutrient flux and evidence for metabolic reprogramming during sustained hypoxemia. <i>Physiological Reports</i> , 2021, 9, e15033.	0.7	4
8	Genome-wide association study of a thermo-tolerance indicator in pregnant ewes exposed to an artificial heat-stressed environment. <i>Journal of Thermal Biology</i> , 2021, 101, 103095.	1.1	9
9	Epigenetic modifications guide maturational processes in rat pancreatic islets. <i>Endocrinology</i> , 2021, , .	1.4	0
10	Chronically elevated norepinephrine concentrations lower glucose uptake in fetal sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020, 319, R255-R263.	0.9	13
11	Developmental programming: Prenatal testosterone excess disrupts pancreatic islet developmental trajectory in female sheep. <i>Molecular and Cellular Endocrinology</i> , 2020, 518, 110950.	1.6	3
12	Discovery and validation of candidate SNP markers associated to heat stress response in pregnant ewes managed inside a climate-controlled chamber. <i>Tropical Animal Health and Production</i> , 2020, 52, 3457-3466.	0.5	7
13	Lower oxygen consumption and Complex I activity in mitochondria isolated from skeletal muscle of fetal sheep with intrauterine growth restriction. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020, 319, E67-E80.	1.8	29
14	Increased pyruvate dehydrogenase activity in skeletal muscle of growth-restricted ovine fetuses. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019, 317, R513-R520.	0.9	14
15	Real supermodels wear wool: summarizing the impact of the pregnant sheep as an animal model for adaptive fetal programming. <i>Animal Frontiers</i> , 2019, 9, 34-43.	0.8	23
16	Postnatal β_2 adrenergic treatment improves insulin sensitivity in lambs with IUGR but not persistent defects in pancreatic islets or skeletal muscle. <i>Journal of Physiology</i> , 2019, 597, 5835-5858.	1.3	20
17	Gestational Diabetesâ€“Induced Programming of Pancreatic Islets. <i>Endocrinology</i> , 2019, 160, 2117-2118.	1.4	0
18	Sustained hypoxemia in late gestation potentiates hepatic gluconeogenic gene expression but does not activate glucose production in the ovine fetus. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 317, E1-E10.	1.8	16

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19	Oxygen Perfusion (Persufflation) of Human Pancreata Enhances Insulin Secretion and Attenuates Islet Proinflammatory Signaling. <i>Transplantation</i> , 2019, 103, 160-167.	0.5	23
20	Multivalent activation of GLP-1 and sulfonylurea receptors modulates β -cell second-messenger signaling and insulin secretion. <i>American Journal of Physiology - Cell Physiology</i> , 2019, 316, C48-C56.	2.1	5
21	Classic solutions to a modern problem: exercise training improves metabolic disorders in offspring from fathers on a high fat diet. <i>Journal of Physiology</i> , 2019, 597, 9-10.	1.3	0
22	Epigenetic responses and the developmental origins of health and disease. <i>Journal of Endocrinology</i> , 2019, 242, T105-T119.	1.2	152
23	30th anniversary for the developmental origins of endocrinology. <i>Journal of Endocrinology</i> , 2019, 242, E1-E4.	1.2	10
24	Adrenergic receptor stimulation suppresses oxidative metabolism in isolated rat islets and Min6 cells. <i>Molecular and Cellular Endocrinology</i> , 2018, 473, 136-145.	1.6	13
25	Changes in myoblast responsiveness to TNF α and IL-6 contribute to decreased skeletal muscle mass in intrauterine growth restricted fetal sheep. <i>Translational Animal Science</i> , 2018, 2, S44-S47.	0.4	16
26	Chronic Adrenergic Signaling Causes Abnormal RNA Expression of Proliferative Genes in Fetal Sheep Islets. <i>Endocrinology</i> , 2018, 159, 3565-3578.	1.4	13
27	In vitro characterization of neonatal, juvenile, and adult porcine islet oxygen demand, β -cell function, and transcriptomes. <i>Xenotransplantation</i> , 2018, 25, e12432.	1.6	20
28	<i>Fetal Endocrinology</i> , 2018, , 484-490.		0
29	Impact of thermal stress on placental function and fetal physiology. <i>Animal Reproduction</i> , 2018, 15, 886-898.	0.4	29
30	Hypothyroidism <i>in utero</i> stimulates pancreatic beta cell proliferation and hyperinsulinaemia in the ovine fetus during late gestation. <i>Journal of Physiology</i> , 2017, 595, 3331-3343.	1.3	25
31	Fetal adaptations in insulin secretion result from high catecholamines during placental insufficiency. <i>Journal of Physiology</i> , 2017, 595, 5103-5113.	1.3	54
32	Islet adaptations in fetal sheep persist following chronic exposure to high norepinephrine. <i>Journal of Endocrinology</i> , 2017, 232, 285-295.	1.2	24
33	Enhanced insulin secretion and insulin sensitivity in young lambs with placental insufficiency-induced intrauterine growth restriction. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 313, R101-R109.	0.9	40
34	Chronic anemic hypoxemia attenuates glucose-stimulated insulin secretion in fetal sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 312, R492-R500.	0.9	29
35	RNA Sequencing Exposes Adaptive and Immune Responses to Intrauterine Growth Restriction in Fetal Sheep Islets. <i>Endocrinology</i> , 2017, 158, 743-755.	1.4	29
36	Acute Ischemia Induced by High-Density Culture Increases Cytokine Expression and Diminishes the Function and Viability of Highly Purified Human Islets of Langerhans. <i>Transplantation</i> , 2017, 101, 2705-2712.	0.5	24

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37	The impact of IUGR on pancreatic islet development and β -cell function. <i>Journal of Endocrinology</i> , 2017, 235, R63-R76.	1.2	60
38	Challenges in nourishing the intrauterine growth-restricted foetus – Lessons learned from studies in the intrauterine growth-restricted foetal sheep. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2016, 105, 881-889.	0.7	22
39	Chronically Increased Amino Acids Improve Insulin Secretion, Pancreatic Vascularity, and Islet Size in Growth-Restricted Fetal Sheep. <i>Endocrinology</i> , 2016, 157, 3788-3799.	1.4	29
40	Adrenal Demedullation and Oxygen Supplementation Independently Increase Glucose-Stimulated Insulin Concentrations in Fetal Sheep With Intrauterine Growth Restriction. <i>Endocrinology</i> , 2016, 157, 2104-2115.	1.4	41
41	Intrauterine growth-restricted sheep fetuses exhibit smaller hindlimb muscle fibers and lower proportions of insulin-sensitive Type I fibers near term. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R1020-R1029.	0.9	45
42	Insights Into the Progression of β -Cell Dysfunction Caused by Preterm Birth. <i>Endocrinology</i> , 2015, 156, 3494-3495.	1.4	1
43	Fetal Adrenal Demedullation Lowers Circulating Norepinephrine and Attenuates Growth Restriction but not Reduction of Endocrine Cell Mass in an Ovine Model of Intrauterine Growth Restriction. <i>Nutrients</i> , 2015, 7, 500-516.	1.7	27
44	A Synthetic Heterobivalent Ligand Composed of Glucagon-Like Peptide 1 and Yohimbine Specifically Targets β Cells Within the Pancreas. <i>Molecular Imaging and Biology</i> , 2015, 17, 461-470.	1.3	3
45	Placental Insufficiency Decreases Pancreatic Vascularity and Disrupts Hepatocyte Growth Factor Signaling in the Pancreatic Islet Endothelial Cell in Fetal Sheep. <i>Diabetes</i> , 2015, 64, 555-564.	0.3	39
46	Increased Adrenergic Signaling Is Responsible for Decreased Glucose-Stimulated Insulin Secretion in the Chronically Hyperinsulinemic Ovine Fetus. <i>Endocrinology</i> , 2015, 156, 367-376.	1.4	20
47	359: Fetal growth restriction and markers of metabolic dysfunction and inflammation. <i>American Journal of Obstetrics and Gynecology</i> , 2015, 212, S188-S189.	0.7	0
48	Enhanced insulin secretion responsiveness and islet adrenergic desensitization after chronic norepinephrine suppression is discontinued in fetal sheep. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014, 306, E58-E64.	1.8	37
49	Heterobivalent GLP-1/Glibenclamide for Targeting Pancreatic β Cells. <i>ChemBioChem</i> , 2014, 15, 135-145.	1.3	5
50	Myoblasts from intrauterine growth-restricted sheep fetuses exhibit intrinsic deficiencies in proliferation that contribute to smaller semitendinosus myofibres. <i>Journal of Physiology</i> , 2014, 592, 3113-3125.	1.3	64
51	Function and expression of sulfonylurea, adrenergic, and glucagon-like peptide 1 receptors in isolated porcine islets. <i>Xenotransplantation</i> , 2014, 21, 385-391.	1.6	7
52	Oxytocin stimulated release of PGF ₂ and its inhibition by a cyclooxygenase inhibitor and an oxytocin receptor antagonist from equine endometrial cultures. <i>Animal Reproduction Science</i> , 2013, 139, 69-75.	0.5	15
53	Effects of oxytocin, lipopolysaccharide (LPS), and polyunsaturated fatty acids on prostaglandin secretion and gene expression in equine endometrial explant cultures. <i>Domestic Animal Endocrinology</i> , 2013, 44, 46-55.	0.8	8
54	Reductions in insulin concentrations and β -cell mass precede growth restriction in sheep fetuses with placental insufficiency. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 304, E516-E523.	1.8	57

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55	Increased amino acid supply potentiates glucose-stimulated insulin secretion but does not increase β -cell mass in fetal sheep. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 304, E352-E362.	1.8	30
56	Elevated plasma norepinephrine inhibits insulin secretion, but adrenergic blockade reveals enhanced β -cell responsiveness in an ovine model of placental insufficiency at 0.7 of gestation. <i>Journal of Developmental Origins of Health and Disease</i> , 2013, 4, 402-410.	0.7	40
57	Developmental Programming in Response to Intrauterine Growth Restriction Impairs Myoblast Function and Skeletal Muscle Metabolism. <i>Journal of Pregnancy</i> , 2012, 2012, 1-10.	1.1	73
58	Chronic pulsatile hyperglycemia reduces insulin secretion and increases accumulation of reactive oxygen species in fetal sheep islets. <i>Journal of Endocrinology</i> , 2012, 212, 327-342.	1.2	13
59	Insulin-like growth factor and fibroblast growth factor expression profiles in growth-restricted fetal sheep pancreas. <i>Experimental Biology and Medicine</i> , 2012, 237, 524-529.	1.1	24
60	Differential Effects of Chronic Pulsatile versus Chronic Constant Maternal Hyperglycemia on Fetal Pancreatic β -Cells. <i>Journal of Pregnancy</i> , 2012, 2012, 1-8.	1.1	11
61	Hypoxaemia-induced catecholamine secretion from adrenal chromaffin cells inhibits glucose-stimulated hyperinsulinaemia in fetal sheep. <i>Journal of Physiology</i> , 2012, 590, 5439-5447.	1.3	39
62	Catecholamines Mediate Multiple Fetal Adaptations during Placental Insufficiency That Contribute to Intrauterine Growth Restriction: Lessons from Hyperthermic Sheep. <i>Journal of Pregnancy</i> , 2011, 2011, 1-9.	1.1	47
63	Maternal amino acid supplementation for intrauterine growth restriction. <i>Frontiers in Bioscience - Scholar</i> , 2011, S3, 428-444.	0.8	52
64	Effects of bacterial lipopolysaccharide injection on white blood cell counts, hematological variables, and serum glucose, insulin, and cortisol concentrations in ewes fed low- or high-protein diets. <i>Journal of Animal Science</i> , 2011, 89, 4286-4293.	0.2	34
65	Characterization of glucose-insulin responsiveness and impact of fetal number and sex difference on insulin response in the sheep fetus. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 300, E817-E823.	1.8	31
66	Consequences of a compromised intrauterine environment on islet function. <i>Journal of Endocrinology</i> , 2010, 206, 335.	1.2	0
67	Remembering development "epigenetic responses to fetal malnutrition. <i>Journal of Physiology</i> , 2010, 588, 1379-1380.	1.3	2
68	β -Adrenergic receptor desensitization in perirenal adipose tissue in fetuses and lambs with placental insufficiency-induced intrauterine growth restriction. <i>Journal of Physiology</i> , 2010, 588, 3539-3549.	1.3	59
69	Consequences of a compromised intrauterine environment on islet function. <i>Journal of Endocrinology</i> , 2010, 205, 211-224.	1.2	89
70	Chronic exposure to elevated norepinephrine suppresses insulin secretion in fetal sheep with placental insufficiency and intrauterine growth restriction. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 298, E770-E778.	1.8	81
71	One process for pancreatic β -cell coalescence into islets involves an epithelial-mesenchymal transition. <i>Journal of Endocrinology</i> , 2009, 203, 19-31.	1.2	89
72	The bovine mammary gland expresses multiple functional isoforms of serotonin receptors. <i>Journal of Endocrinology</i> , 2009, 203, 123-131.	1.2	55

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73	Glucose Replacement to Euglycemia Causes Hypoxia, Acidosis, and Decreased Insulin Secretion in Fetal Sheep With Intrauterine Growth Restriction. <i>Pediatric Research</i> , 2009, 65, 72-78.	1.1	34
74	Effects of chronic hypoglycemia and euglycemic correction on lysine metabolism in fetal sheep. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 296, E879-E887.	1.8	34
75	Specificity protein-1 and -3 trans-activate the ovine placental lactogen gene promoter. <i>Molecular and Cellular Endocrinology</i> , 2009, 307, 118-124.	1.6	4
76	An Islet-Stabilizing Implant Constructed Using a Preformed Vasculature. <i>Tissue Engineering - Part A</i> , 2008, 14, 433-440.	1.6	71
77	Chronic late-gestation hypoglycemia upregulates hepatic PEPCK associated with increased PGC1 β mRNA and phosphorylated CREB in fetal sheep. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008, 294, E365-E370.	1.8	45
78	Increased insulin sensitivity and maintenance of glucose utilization rates in fetal sheep with placental insufficiency and intrauterine growth restriction. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 293, E1716-E1725.	1.8	155
79	Chronic fetal hypoglycemia inhibits the later steps of stimulus-secretion coupling in pancreatic β -cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E1256-E1264.	1.8	32
80	CATECHOLAMINES INHIBIT INSULIN SECRETION IN SHEEP FETUSES WITH PLACENTAL INSUFFICIENCY AND INTRAUTERINE GROWTH RESTRICTION. <i>Biology of Reproduction</i> , 2007, 77, 126-126.	1.2	0
81	Decreased nutrient-stimulated insulin secretion in chronically hypoglycemic late-gestation fetal sheep is due to an intrinsic islet defect. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 291, E404-E411.	1.8	46
82	Developmental Changes in Ovine Myocardial Glucose Transporters and Insulin Signaling Following Hyperthermia-Induced Intrauterine Fetal Growth Restriction. <i>Experimental Biology and Medicine</i> , 2006, 231, 566-575.	1.1	30
83	Attenuated Insulin Release and Storage in Fetal Sheep Pancreatic Islets with Intrauterine Growth Restriction. <i>Endocrinology</i> , 2006, 147, 1488-1497.	1.4	185
84	Investigating the causes of low birth weight in contrasting ovine paradigms. <i>Journal of Physiology</i> , 2005, 565, 19-26.	1.3	104
85	Localisation of glucose transport in the ruminant placenta: implications for sequential use of transporter isoforms. <i>Placenta</i> , 2005, 26, 626-640.	0.7	50
86	Diminished β -cell replication contributes to reduced β -cell mass in fetal sheep with intrauterine growth restriction. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 288, R1297-R1305.	0.9	129
87	Pur α , a Single-Stranded Deoxyribonucleic Acid Binding Protein, Augments Placental Lactogen Gene Transcription. <i>Molecular Endocrinology</i> , 2004, 18, 447-457.	3.7	10
88	Characterization of Glucose Transporter 8 (GLUT8) in the Ovine Placenta of Normal and Growth Restricted Fetuses. <i>Placenta</i> , 2004, 25, 70-77.	0.7	68
89	Endothelial nitric oxide synthase in uteroplacental vasculature in an ovine model of IUGR. <i>American Journal of Obstetrics and Gynecology</i> , 2003, 189, S193.	0.7	3
90	Adaptation of ovine fetal pancreatic insulin secretion to chronic hypoglycaemia and euglycaemic correction. <i>Journal of Physiology</i> , 2003, 547, 95-105.	1.3	53

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91	Structure and transcriptional regulation of the ovine placental lactogen gene. FEBS Journal, 2001, 265, 883-895.	0.2	26
92	Novel activator protein-2 splice-variants function as transactivators of the ovine placental lactogen gene. FEBS Journal, 2001, 268, 2390-2401.	0.2	14
93	Transcriptional regulation in the placenta during normal and compromised fetal growth. Biochemical Society Transactions, 2001, 29, 42-8.	1.6	4
94	Placental Lactogen and Growth Hormone. , 1998, , 461-490.		26
95	Semilunar follicular cycle of an intertidal fish: the Fundulus model. Biology of Reproduction, 1996, 54, 809-818.	1.2	30
96	Pattern of Vitellogenesis and Follicle Maturational Competence during the Ovarian Follicular Cycle of Fundulus heteroclitus. General and Comparative Endocrinology, 1996, 103, 24-35.	0.8	42
97	Aspects of fetoplacental nutrition in intrauterine growth restriction and macrosomia. , 0, , 32-46.		2
98	An Islet-Stabilizing Implant Constructed Using a Preformed Vasculature. Tissue Engineering, 0, , 110306233438005.	4.9	1