

Caleb O Lemley

List of Publications by Year in descending order

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76
papers

954
citations

430843

18
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501174

28
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81
all docs

81
docs citations

81
times ranked

758
citing authors

#	ARTICLE	IF	CITATIONS
1	Melatonin supplementation alters uteroplacental hemodynamics and fetal development in an ovine model of intrauterine growth restriction. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 302, R454-R467.	1.8	100
2	Short Communication: Insulin Alters Hepatic Progesterone Catabolic Enzymes Cytochrome P450 2C and 3A in Dairy Cows. <i>Journal of Dairy Science</i> , 2008, 91, 641-645.	3.4	50
3	Impacts of Maternal Nutrition on Vascularity of Nutrient Transferring Tissues during Gestation and Lactation. <i>Nutrients</i> , 2015, 7, 3497-3523.	4.1	42
4	Maternal Stress and Placental Vascular Function and Remodeling. <i>Current Vascular Pharmacology</i> , 2013, 11, 564-593.	1.7	38
5	Programming the offspring through altered uteroplacental hemodynamics: how maternal environment impacts uterine and umbilical blood flow in cattle, sheep and pigs. <i>Reproduction, Fertility and Development</i> , 2012, 24, 97.	0.4	37
6	2011 AND 2012 EARLY CAREERS ACHIEVEMENT AWARDS: Placental programming: How the maternal environment can impact placental function ^{1,2} . <i>Journal of Animal Science</i> , 2013, 91, 2467-2480.	0.5	37
7	Dietary melatonin alters uterine artery hemodynamics in pregnant Holstein heifers. <i>Domestic Animal Endocrinology</i> , 2016, 55, 1-10.	1.6	36
8	Effects of maternal nutrient restriction followed by realimentation during midgestation on uterine blood flow in beef cows. <i>Theriogenology</i> , 2014, 81, 1248-1256.e3.	2.1	32
9	Dietary selenium and nutritional plane alter specific aspects of maternal endocrine status during pregnancy and lactation. <i>Domestic Animal Endocrinology</i> , 2014, 46, 1-11.	1.6	31
10	Diet-induced alterations in hepatic progesterone (P4) catabolic enzyme activity and P4 clearance rate in lactating dairy cows. <i>Journal of Endocrinology</i> , 2010, 205, 233-241.	2.6	28
11	Effect of a high cornstarch diet on hepatic cytochrome P450 2C and 3A activity and progesterone half-life in dairy cows. <i>Journal of Dairy Science</i> , 2010, 93, 1012-1021.	3.4	28
12	Dietary melatonin supplementation alters uteroplacental amino acid flux during intrauterine growth restriction in ewes. <i>Animal</i> , 2013, 7, 1500-1507.	3.3	26
13	Effect of cytochrome P450 and aldo-keto reductase inhibitors on progesterone inactivation in primary bovine hepatic cell cultures. <i>Journal of Dairy Science</i> , 2010, 93, 4613-4624.	3.4	24
14	Effect of maternal nutrient restriction and melatonin supplementation from mid to late gestation on vascular reactivity of maternal and fetal placental arteries. <i>Placenta</i> , 2014, 35, 461-466.	1.5	23
15	Hepatic steroid metabolizing enzyme activity during early, mid, and late bovine pregnancy. <i>Domestic Animal Endocrinology</i> , 2014, 49, 31-38.	1.6	20
16	Maternal nutrient restriction during pregnancy impairs an endothelium-derived hyperpolarizing factor-like pathway in sheep fetal coronary arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H134-H142.	3.2	19
17	Effects of maternal nutrient restriction followed by realimentation during early and midgestation on beef cows. I. Maternal performance and organ weights at different stages of gestation ^{1,2} . <i>Journal of Animal Science</i> , 2014, 92, 520-529.	0.5	19
18	Uterine Infusion of Melatonin or Melatonin Receptor Antagonist Alters Ovine Feto-Placental Hemodynamics During Midgestation ¹ . <i>Biology of Reproduction</i> , 2013, 89, 40.	2.7	18

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19	Effect of melatonin or maternal nutrient restriction on vascularity and cell proliferation in the ovine placenta. <i>Animal Reproduction Science</i> , 2015, 153, 13-21.	1.5	18
20	Nutrient restriction and realimentation in beef cows during early and mid-gestation and maternal and fetal hepatic and small intestinal in vitro oxygen consumption. <i>Animal</i> , 2016, 10, 829-837.	3.3	18
21	Effect of chronic melatonin supplementation during mid to late gestation on maternal uterine artery blood flow and subsequent development of male offspring in beef cattle. <i>Journal of Animal Science</i> , 2018, 96, 5100-5111.	0.5	18
22	Vaginal bacterial community composition and concentrations of estradiol at the time of artificial insemination in Brangus heifers. <i>Journal of Animal Science</i> , 2020, 98, .	0.5	18
23	Effects of maternal nutrient restriction followed by realimentation during early and mid-gestation in beef cows. II. Placental development, umbilical blood flow, and uterine blood flow responses to diet alterations. <i>Theriogenology</i> , 2018, 116, 1-11.	2.1	17
24	Estradiol-17 β and linseed meal interact to alter visceral organ mass and hormone concentrations from ovariectomized ewes. <i>Domestic Animal Endocrinology</i> , 2009, 37, 148-158.	1.6	16
25	Effects of nutrient restriction and melatonin supplementation on maternal and foetal hepatic and small intestinal energy utilization. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2014, 98, 797-807.	2.2	16
26	Effects of realimentation after nutrient restriction during mid to late gestation on pancreatic digestive enzymes, serum insulin and glucose levels, and insulin-containing cell cluster morphology. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2017, 101, 589-604.	2.2	14
27	Influence of nutrient restriction and melatonin supplementation of pregnant ewes on maternal and fetal pancreatic digestive enzymes and insulin-containing clusters. <i>Animal</i> , 2016, 10, 440-448.	3.3	13
28	Supplementation of corn dried distillers' grains plus solubles to gestating beef cows fed low-quality forage: II. Impacts on uterine blood flow, circulating estradiol-17 β and progesterone, and hepatic steroid metabolizing enzyme activity. <i>Journal of Animal Science</i> , 2016, 94, 4619-4628.	0.5	12
29	Investigating reproductive organ blood flow and blood perfusion to ensure healthy offspring. <i>Animal Frontiers</i> , 2017, 7, 18-24.	1.7	12
30	Concomitant changes in progesterone catabolic enzymes, cytochrome P450 2C and 3A, with plasma insulin concentrations in ewes supplemented with sodium acetate or sodium propionate. <i>Animal</i> , 2008, 2, 1223-1229.	3.3	11
31	Arginine supplementation between 41 and 146 days of pregnancy reduces uterine blood flow in dairy heifers. <i>Theriogenology</i> , 2015, 84, 43-50.	2.1	11
32	Effects of Supplementing Holstein Heifers with Dietary Melatonin during Late Gestation on Growth and Cardiovascular Measurements of their Offspring. <i>Reproduction in Domestic Animals</i> , 2016, 51, 240-247.	1.4	11
33	Maternal nutrient restriction alters uterine artery hemodynamics and placentome vascular density in <i>Bos indicus</i> and <i>Bos taurus</i> . <i>Journal of Animal Science</i> , 2018, 96, 4823-4834.	0.5	11
34	Hepatic steroid inactivating enzymes, hepatic portal blood flow and corpus luteum blood perfusion in cattle. <i>Reproduction in Domestic Animals</i> , 2018, 53, 751-758.	1.4	9
35	Maternal nutrient restriction in the ewe from early to midgestation programs reduced steroidogenic enzyme expression and tended to reduce progesterone content of corpora lutea, as well as circulating progesterone in nonpregnant aged female offspring. <i>Reproductive Biology and Endocrinology</i> , 2013, 11, 34.	3.3	8
36	Maternal metabolizable protein restriction during late gestation on uterine and umbilical blood flows and maternal and fetal amino acid concentrations near term in sheep. <i>Animal Reproduction Science</i> , 2015, 158, 115-125.	1.5	8

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37	Effect of 2 corpora lutea on blood perfusion, peripheral progesterone, and hepatic steroid-inactivating enzymes in dairy cattle. <i>Journal of Dairy Science</i> , 2015, 98, 288-294.	3.4	8
38	Fatty acid composition of mesenteric, cardiac, abdominal, intermuscular, and subcutaneous adipose tissues from horses of three body condition scores. <i>Livestock Science</i> , 2019, 223, 116-123.	1.6	8
39	Melatonin alters bovine uterine artery hemodynamics, vaginal temperatures, and fetal morphometrics during late gestational nutrient restriction in a season-dependent manner. <i>Journal of Animal Science</i> , 2021, 99, .	0.5	8
40	Evaluating blood perfusion of the corpus luteum in beef cows during fescue toxicosis ¹ . <i>Journal of Animal Science</i> , 2016, 94, 90-95.	0.5	6
41	Effects of Interferon τ and Steroids on Cytochrome P450 Activity in Bovine Endometrial Epithelial Cells. <i>Reproduction in Domestic Animals</i> , 2016, 51, 415-420.	1.4	6
42	Pre-breeding beef heifer management and season affect mid to late gestation uterine artery hemodynamics. <i>Theriogenology</i> , 2017, 87, 9-15.	2.1	6
43	Oxylipin concentrations in bovine corpora lutea during maternal recognition of pregnancy. <i>Theriogenology</i> , 2020, 142, 384-389.	2.1	6
44	Effect of anabolic implants on adrenal cortisol synthesis in feedlot beef cattle implanted early or late in the finishing phase. <i>Physiology and Behavior</i> , 2015, 138, 118-123.	2.1	5
45	Effect of 1%-3 Fatty Acid Supplementation to Gestating and Lactating Mares: On Milk IgG, Mare and Foal Blood Concentrations of IgG, Insulin and Glucose, Placental Efficiency, and Fatty Acid Composition of Milk and Serum From Mares and Foals. <i>Journal of Equine Veterinary Science</i> , 2017, 51, 70-78.	0.9	5
46	Melatonin-induced changes in the bovine vaginal microbiota during maternal nutrient restriction. <i>Journal of Animal Science</i> , 2021, 99, .	0.5	5
47	Differences in bovine placentome blood vessel density and transcriptomics in a mid to late-gestating maternal nutrient restriction model. <i>Placenta</i> , 2021, 117, 122-130.	1.5	5
48	Uteroplacental secretion of progesterone and estradiol-17 β in an ovine model of intrauterine growth restriction. <i>Animal Reproduction Science</i> , 2018, 193, 68-78.	1.5	4
49	Temporal transcript abundance of clock genes, angiogenic factors and nutrient sensing genes in bovine placental explants. <i>Theriogenology</i> , 2020, 151, 74-80.	2.1	4
50	Effects of nutrient restriction and melatonin supplementation from mid-to-late gestation on maternal and fetal small intestinal carbohydrase activities in sheep. <i>Domestic Animal Endocrinology</i> , 2021, 74, 106555.	1.6	4
51	Effects of administration of exogenous estradiol benzoate on follicular, luteal, and uterine hemodynamics in beef cows. <i>Animal Reproduction Science</i> , 2021, 232, 106817.	1.5	4
52	Endometrial blood perfusion as assessed using a novel laser Doppler technique in Angus cows. <i>Animal Reproduction Science</i> , 2018, 190, 119-126.	1.5	3
53	Umbilical Cord Blood Flow Following Melatonin Supplementation in Adequately Fed or Nutrient Restricted Ewes.. <i>Biology of Reproduction</i> , 2011, 85, 458-458.	2.7	3
54	Oxidative stress biomarkers and free amino acid concentrations in the blood plasma of moderately exercised horses indicate adaptive response to prolonged exercise training. <i>Journal of Animal Science</i> , 2022, 100, .	0.5	3

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55	380 Effects of estradiol benzoate on reproductive characteristics in beef cows. <i>Journal of Animal Science</i> , 2019, 97, 145-145.	0.5	2
56	Effects of body condition score (BCS) on steroid and eicosanoid metabolizing enzyme activity in various mare tissues during winter anoestrus. <i>Reproduction in Domestic Animals</i> , 2018, 53, 296-303.	1.4	1
57	Investigating ovine placentome blood perfusion using power flow Doppler ultrasonography. <i>Small Ruminant Research</i> , 2020, 184, 106051.	1.2	1
58	Effects of administering exogenous bovine somatotropin to beef heifers during the first trimester on conceptus development as well as steroid- and eicosanoid-metabolizing enzymes. <i>Journal of Animal Science</i> , 2021, 99, .	0.5	1
59	Melatonin-induced Changes in the Bovine Vaginal Microbiota During Maternal Nutrient Restriction in Brangus Heifers. <i>Journal of Animal Science</i> , 2021, 99, 26-27.	0.5	1
60	107 Influence of chronic melatonin supplementation on bovine testis physiology. <i>Journal of Animal Science</i> , 2020, 98, 42-42.	0.5	1
61	144 Nutritional advances in fetal and neonatal development: stage of gestation and placental nutrient supply. <i>Journal of Animal Science</i> , 2020, 98, 120-120.	0.5	1
62	NUTRITIONAL CHARACTERISTICS OF THE DAIRY COW DURING EARLY GESTATION AND SUBSEQUENT GROWTH AND CARDIAC MEASUREMENTS OF HER OFFSPRING. <i>American Journal of Animal and Veterinary Sciences</i> , 2014, 9, 146-154.	0.5	0
63	281 Effects of feeding endophyte-infected tall fescue seed to Angus steers on ergovaline concentration, lipid oxidation, and skeletal metmyoglobin reductase activity. <i>Journal of Animal Science</i> , 2019, 97, 102-103.	0.5	0
64	PSII-35 Melatonin supplementation and restricted nutrition do not affect chorionic somatomammotropin (CSH) concentration in ovine placenta from mid- to late- gestation. <i>Journal of Animal Science</i> , 2019, 97, 244-244.	0.5	0
65	PSVIII-3 Maternal nutrient restriction during mid-to-late gestation alters adipogenic gene expression in subcutaneous and perirenal adipose tissue of fetal beef cattle offspring. <i>Journal of Animal Science</i> , 2019, 97, 304-305.	0.5	0
66	PSII-7 Uterine artery hemodynamics and placentome quantification during maternal nutrient restriction in beef cattle. <i>Journal of Animal Science</i> , 2019, 97, 237-237.	0.5	0
67	Effects of Melatonin Supplementation During Mid- to Late-gestation Nutrient Restriction on Maternal and Fetal Amino Acid Concentrations. <i>Journal of Animal Science</i> , 2021, 99, 17-17.	0.5	0
68	Effect of Hair Coat Shedding Ability on Uterine Artery Hemodynamics in Angus Cattle. <i>Journal of Animal Science</i> , 2021, 99, 3-3.	0.5	0
69	The Effect of Melatonin Supplementation on Dam Milking Traits and Calf Performance in Beef Cattle. <i>Journal of Animal Science</i> , 2021, 99, 17-18.	0.5	0
70	Differential vascular reactivity of fetal and maternal placental arteries from melatonin treated nutrient restricted sheep to endothelium dependent and independent vasodilators. <i>FASEB Journal</i> , 2012, 26, 712.5.	0.5	0
71	Periconceptional growth hormone treatment alters early uterine environment. <i>Open Journal of Animal Sciences</i> , 2013, 03, 121-126.	0.6	0
72	Abstract P247: ACE2/ACE Imbalance in the Placental Circulation in an Ovine Model of Intrauterine Growth Restriction. <i>Hypertension</i> , 2018, 72, .	2.7	0

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73	Effects of Administering Exogenous Bovine Somatotropin During the First Trimester of Pregnancy Altered Uterine Hemodynamics in Suckled Beef Cows. <i>Frontiers in Animal Science</i> , 2021, 2, .	1.9	0
74	23 Comparison of vaginal microbiome and concentrations of estradiol at artificial insemination in Brangus heifers. <i>Journal of Animal Science</i> , 2020, 98, 14-15.	0.5	0
75	22 Comparison of vaginal microbiome and concentrations of estradiol at artificial insemination in Brangus heifers. <i>Journal of Animal Science</i> , 2020, 98, 41-42.	0.5	0
76	Effects of Maternal Nutrient Restriction and Melatonin Supplementation on Cardiomyocyte Cell Development Parameters Using Machine Learning Techniques. <i>Animals</i> , 2022, 12, 1818.	2.3	0