Laura L Hernandez

List of Publications by Year
in descending order

78 papers	2,028 citations	201385 27 h-index	276539 41 g-index
81 all docs	81 docs citations	81 times ranked	1695 citing authors

#	Article	IF	Citations
1	Altered serotonin physiology in human breast cancers favors paradoxical growth and cell survival. Breast Cancer Research, 2009, 11, R81.	2.2	122
2	Mammary gland serotonin regulates parathyroid hormone-related protein and other bone-related signals. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E1009-E1015.	1.8	86
3	Evaluation of Serotonin as a Feedback Inhibitor of Lactation in the Bovine. Journal of Dairy Science, 2008, 91, 1834-1844.	1.4	67
4	Autocrine-paracrine regulation of the mammary gland. Journal of Dairy Science, 2016, 99, 842-853.	1.4	65
5	Serotonin Transport and Metabolism in the Mammary Gland Modulates Secretory Activation and Involution. Journal of Clinical Endocrinology and Metabolism, 2010, 95, 837-846.	1.8	64
6	Effects of prepartum dietary cation-anion difference and source of vitamin D in dairy cows: Health and reproductive responses. Journal of Dairy Science, 2018, 101, 2563-2578.	1.4	62
7	Effects of prepartum dietary cation-anion difference and source of vitamin D in dairy cows: Vitamin D, mineral, and bone metabolism. Journal of Dairy Science, 2018, 101, 2519-2543.	1.4	59
8	Influence of sampling technique and bedding type on the milk microbiota: Results of a pilot study. Journal of Dairy Science, 2018, 101, 6346-6356.	1.4	58
9	Suppression of lactation and acceleration of involution in the bovine mammary gland by a selective serotonin reuptake inhibitor. Journal of Endocrinology, 2011, 209, 45-54.	1.2	57
10	The bovine mammary gland expresses multiple functional isoforms of serotonin receptors. Journal of Endocrinology, 2009, 203, 123-131.	1.2	55
11	Feeding 5-hydroxy-l-tryptophan during the transition from pregnancy to lactation increases calcium mobilization from bone in rats. Domestic Animal Endocrinology, 2013, 44, 176-184.	0.8	55
12	Serotonin as a homeostatic regulator of lactation. Domestic Animal Endocrinology, 2012, 43, 161-170.	0.8	51
13	Peripheral Serotonin Regulates Maternal Calcium Trafficking in Mammary Epithelial Cells during Lactation in Mice. PLoS ONE, 2014, 9, e110190.	1.1	51
14	Increased serum serotonin improves parturient calcium homeostasis in dairy cows. Journal of Dairy Science, 2017, 100, 1580-1587.	1.4	49
15	Effects of prepartum dietary cation-anion difference and source of vitamin D in dairy cows: Lactation performance and energy metabolism. Journal of Dairy Science, 2018, 101, 2544-2562.	1.4	48
16	Increasing serotonin concentrations alter calcium and energy metabolism in dairy cows. Journal of Endocrinology, 2015, 226, 43-55.	1.2	46
17	Serotonin Regulates Calcium Homeostasis in Lactation by Epigenetic Activation of Hedgehog Signaling. Molecular Endocrinology, 2014, 28, 1866-1874.	3.7	45
18	Functional Inactivation of Mast Cells Enhances Subcutaneous Adipose Tissue Browning in Mice. Cell Reports, 2019, 28, 792-803.e4.	2.9	45

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19	High Fat Diet Alters Lactation Outcomes: Possible Involvement of Inflammatory and Serotonergic Pathways. PLoS ONE, 2012, 7, e32598.	1.1	43
20	Serotonin (5-HT) Affects Expression of Liver Metabolic Enzymes and Mammary Gland Glucose Transporters during the Transition from Pregnancy to Lactation. PLoS ONE, 2013, 8, e57847.	1.1	41
21	A Cohort Study of the Milk Microbiota of Healthy and Inflamed Bovine Mammary Glands From Dryoff Through 150 Days in Milk. Frontiers in Veterinary Science, 2018, 5, 247.	0.9	41
22	Endocrine and metabolic changes in transition dairy cows are affected by prepartum infusions of a serotonin precursor. Journal of Dairy Science, 2017, 100, 5050-5057.	1.4	36
23	Androgen receptor DNA methylation regulates the timing and androgen sensitivity of mouse prostate ductal development. Developmental Biology, 2014, 396, 237-245.	0.9	35
24	Serotonin and Serotonin Transport in the Regulation of Lactation. Journal of Mammary Gland Biology and Neoplasia, 2014, 19, 139-146.	1.0	32
25	Understanding the Milk Microbiota. Veterinary Clinics of North America - Food Animal Practice, 2018, 34, 427-438.	0.5	32
26	Short communication: Circulating serotonin (5-HT) concentrations on day 1 of lactation as a potential predictor of transition-related disorders. Journal of Dairy Science, 2013, 96, 5146-5150.	1.4	31
27	Elevation of circulating serotonin improves calcium dynamics in the peripartum dairy cow. Journal of Endocrinology, 2016, 230, 105-123.	1.2	31
28	DNA methylation of E-cadherin is a priming mechanism for prostate development. Developmental Biology, 2014, 387, 142-153.	0.9	29
29	Short communication: Supplementation of colostrum and milk with 5-hydroxy-l-tryptophan affects immune factors but not growth performance in newborn calves. Journal of Dairy Science, 2018, 101, 794-800.	1.4	28
30	New concepts of breast cell communication to bone. Trends in Endocrinology and Metabolism, 2014, 25, 34-41.	3.1	25
31	Elevating serotonin pre-partum alters the Holstein dairy cow hepatic adaptation to lactation. PLoS ONE, 2017, 12, e0184939.	1.1	25
32	The Type 7 Serotonin Receptor, 5-HT₇, Is Essential in the Mammary Gland for Regulation of Mammary Epithelial Structure and Function. BioMed Research International, 2015, 2015, 1-8.	0.9	24
33	Effect of treatment with human chorionic gonadotropin 7 days after artificial insemination or at the time of embryo transfer on reproductive outcomes in nulliparous Holstein heifers. Journal of Dairy Science, 2019, 102, 2593-2606.	1.4	24
34	Effect of incomplete milking on milk production rate and composition with 2 daily milkings. Journal of Dairy Science, 2017, 100, 1535-1540.	1.4	22
35	Short communication: Mammary gland tight junction permeability after parturition is greater in dairy cows with elevated circulating serotonin concentrations. Journal of Dairy Science, 2019, 102, 1768-1774.	1.4	22
36	Characterization of mammary-specific disruptions for Tph1 and Lrp5 during murine lactation. Scientific Reports, 2017, 7, 15155.	1.6	20

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37	Maternal dietary vitamin D carry-over alters offspring growth, skeletal mineralisation and tissue mRNA expressions of genes related to vitamin D, calcium and phosphorus homoeostasis in swine. British Journal of Nutrition, 2016, 116, 774-787.	1.2	18
38	The Burn Wound Inflammatory Response Is Influenced by Midazolam. Inflammation, 2012, 35, 259-270.	1.7	17
39	Temporarily decreasing progesterone after timed artificial insemination decreased expression of interferon-tau stimulated gene 15 (ISG15) in blood leukocytes, serum pregnancy-specific protein B concentrations, and embryo size in lactating Holstein cows. Journal of Dairy Science, 2017, 100, 3233-3242.	1.4	16
40	Interaction of 5-hydroxy-l-tryptophan and negative dietary cation-anion difference on calcium homeostasis in multiparous peripartum dairy cows. Journal of Dairy Science, 2018, 101, 5486-5501.	1.4	16
41	Peripartum Fluoxetine Reduces Maternal Trabecular Bone After Weaning and Elevates Mammary Gland Serotonin and PTHrP. Endocrinology, 2018, 159, 2850-2862.	1.4	16
42	Serum and tissue 25-OH vitamin D₃ concentrations do not predict bone abnormalities and molecular markers of vitamin D metabolism in the hypovitaminosis D kyphotic pig model. British Journal of Nutrition, 2017, 118, 30-40.	1.2	15
43	Elevated serotonin coordinates mammary metabolism in dairy cows. Physiological Reports, 2021, 9, e14798.	0.7	15
44	Patterns of circulating serotonin and related metabolites in multiparous dairy cows in the peripartum period. Journal of Dairy Science, 2015, 98, 3754-65.	1.4	14
45	Transcriptomic Analysis of the Mouse Mammary Gland Reveals New Insights for the Role of Serotonin in Lactation. PLoS ONE, 2015, 10, e0140425.	1.1	14
46	Serotonin Deficiency Rescues Lactation on Day 1 in Mice Fed a High Fat Diet. PLoS ONE, 2016, 11, e0162432.	1.1	13
47	Effect of high-fat diet feeding and associated transcriptome changes in the peak lactation mammary gland in C57BL/6 dams. Physiological Genomics, 2018, 50, 1059-1070.	1.0	13
48	Effect of manipulating progesterone before timed artificial insemination on reproductive and endocrine outcomes in high-producing multiparous Holstein cows. Journal of Dairy Science, 2019, 102, 7509-7521.	1.4	13
49	Serotonin receptor expression is dynamic in the liver during the transition period in Holstein dairy cows. Domestic Animal Endocrinology, 2015, 51, 65-73.	0.8	11
50	Short communication: Timing of first milking affects serotonin (5-HT) concentrations. Journal of Dairy Science, 2014, 97, 2944-2948.	1.4	10
51	Histone acetylation regulates prostate ductal morphogenesis through a bone morphogenetic proteinâ€“dependent mechanism. Developmental Dynamics, 2015, 244, 1404-1414.	0.8	10
52	Short communication: Circulating serotonin is related to the metabolic status and lactational performance at the onset of lactation in dairy cows. Journal of Dairy Science, 2018, 101, 11455-11460.	1.4	10
53	Association of quarter milking measurements and cow-level factors in an automatic milking system. Journal of Dairy Science, 2018, 101, 7551-7562.	1.4	10
54	Effect of Low and High Doses of Two Selective Serotonin Reuptake Inhibitors on Pregnancy Outcomes and Neonatal Mortality. Toxics, 2022, 10, 11.	1.6	10

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55	Association of milking interval and milk production rate in an automatic milking system. Journal of Dairy Science, 2018, 101, 1616-1625.	1.4	9
56	Gene expression of matrix metalloproteinase 9 (MMP9), matrix metalloproteinase 13 (MMP13), vascular endothelial growth factor (VEGF) and fibroblast growth factor 23 (FGF23) in femur and vertebra tissues of the hypovitaminosis D kyphotic pig model. British Journal of Nutrition, 2018, 120, 404-414.	1.2	8
57	The effects of incomplete milking and increased milking frequency on milk production rate and milk composition1. Journal of Animal Science, 2019, 97, 2424-2432.	0.2	8
58	Physiological adaptations in early-lactation cows result in differential responses to calcium perturbation relative to nonlactating, nonpregnant cows. Journal of Dairy Science, 2022, 105, 904-920.	1.4	8
59	Serotonin and calcium homeostasis during the transition period. Domestic Animal Endocrinology, 2016, 56, S147-S154.	0.8	7
60	TRIENNIAL LACTATION SYMPOSIUM/BOLFA: Serotonin and the regulation of calcium transport in dairy cows1. Journal of Animal Science, 2017, 95, 5711-5719.	0.2	7
61	Effect of induced hypocalcemia in nonlactating, nonpregnant Holstein cows fed negative DCAD with low, medium, or high concentrations of calcium. Journal of Animal Science, 2018, 96, 5010-5023.	0.2	7
62	In vitro effects of 5-Hydroxy-L-tryptophan supplementation on primary bovine mammary epithelial cell gene expression under thermoneutral or heat shock conditions. Scientific Reports, 2022, 12, 3820.	1.6	7
63	Short communication: The effect of ruminal administration of 5-hydroxy-l-tryptophan on circulating serotonin concentrations. Journal of Dairy Science, 2020, 103, 10850-10855.	1.4	6
64	Serotonin stimulated parathyroid hormone related protein induction in the mammary epithelia by transglutaminase-dependent serotonylation. PLoS ONE, 2020, 15, e0241192.	1.1	6
65	Technical note: Effects of rumen passage on fluoxetine bioavailability in serum and effects of fluoxetine on serum prolactin concentration and demeanor in ewes1. Journal of Animal Science, 2010, 88, 3611-3616.	0.2	5
66	Use of the RatLoft decreases pup mortality in lactating mice. Laboratory Animals, 2016, 50, 370-378.	0.5	5
67	Peripartal treatment with lowâ€dose sertraline accelerates mammary gland involution and has minimal effects on maternal and offspring bone. Physiological Reports, 2022, 10, e15204.	0.7	5
68	Could use of Selective Serotonin Reuptake Inhibitors During Lactation Cause Persistent Effects on Maternal Bone?. Journal of Mammary Gland Biology and Neoplasia, 2018, 23, 5-25.	1.0	4
69	Nutrient and hormone composition of milk is altered in rodent dams post-bariatric surgery. Journal of Developmental Origins of Health and Disease, 2020, 11, 71-77.	0.7	4
70	A mechanism linking perinatal 2,3,7,8 tetrachlorodibenzo-p-dioxin exposure to lower urinary tract dysfunction in adulthood. DMM Disease Models and Mechanisms, 2021, 14, .	1.2	4
71	Graduate Student Literature Review: Serotonin and calcium metabolism: A story unfolding. Journal of Dairy Science, 2021, 104, 13008-13019.	1.4	4
72	In utero and lactational exposure to the Selective Serotonin Reuptake Inhibitor fluoxetine compromises pup bones at weaning. Scientific Reports, 2019, 9, 238.	1.6	3

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73	Impact of Fluoxetine Treatment and Folic Acid Supplementation on the Mammary Gland Transcriptome During Peak Lactation. Frontiers in Pharmacology, 2022, 13, 828735.	1.6	3
74	ADSA Foundation Scholar Award: A role for serotonin in lactation physiologyâ€"Where do we go from here?. Journal of Dairy Science, 2018, 101, 5671-5678.	1.4	2
75	Transcriptomic analysis investigating the interaction between peripheral serotonin and high-fat diet feeding on mammary gene expression in midlactation mice. Physiological Genomics, 2020, 52, 47-55.	1.0	2
76	Peripartum dietary supplementation of a small-molecule inhibitor of tryptophan hydroxylase 1 compromises infant, but not maternal, bone. American Journal of Physiology - Endocrinology and Metabolism, 2018, 315, E1133-E1142.	1.8	1
77	Investigating the complex interplay between genotype and high-fat-diet feeding in the lactating mammary gland using the Tph1 and Ldlr knockout models. American Journal of Physiology - Endocrinology and Metabolism, 2021, 320, E438-E452.	1.8	1
78	Investigating the effect of positional variation on mid-lactation mammary gland transcriptomics in mice fed either a low-fat or high-fat diet. PLoS ONE, 2021, 16, e0255770.	1.1	0