

# Juan J Loor

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

440  
papers

12,278  
citations

55  
h-index

90  
g-index

484  
ext. papers

15,394  
ext. citations

3.7  
avg. IF

6.75  
L-index

#	Paper	IF	Citations
440	Activation of Transcription Factor EB Is Associated With Adipose Tissue Lipolysis in Dairy Cows With Subclinical Ketosis.. <i>Frontiers in Veterinary Science</i> , <b>2022</b> , 9, 816064	3.1	
439	Dietary -carbamylglutamate or L-arginine improves fetal intestinal amino acid profiles during intrauterine growth restriction in undernourished ewes.. <i>Animal Nutrition</i> , <b>2022</b> , 8, 341-349	4.8	3
438	Normal Light-Dark and Short-Light Cycles Regulate Intestinal Inflammation, Circulating Short-chain Fatty Acids and Gut Microbiota in Gene Knockout Mice.. <i>Frontiers in Immunology</i> , <b>2022</b> , 13, 848248	8.4	0
437	Role of diacylglycerol O-acyltransferase (DGAT) isoforms in bovine hepatic fatty acid metabolism.. <i>Journal of Dairy Science</i> , <b>2022</b> , 105, 3588-3600	4	1
436	A novel sub-pilot-scale direct-contact ultrasonic dehydration technology for sustainable production of distillers dried grains (DDG).. <i>Ultrasonics Sonochemistry</i> , <b>2022</b> , 85, 105982	8.9	1
435	Inhibiting nuclear factor erythroid 2 related factor 2-mediated autophagy in bovine mammary epithelial cells induces oxidative stress in response to exogenous fatty acids.. <i>Journal of Animal Science and Biotechnology</i> , <b>2022</b> , 13, 48	6	1
434	Effects of the maternal gut microbiome and gut-placental axis on melatonin efficacy in alleviating cadmium-induced fetal growth restriction.. <i>Ecotoxicology and Environmental Safety</i> , <b>2022</b> , 237, 113550	7	0
433	The Short-Day Cycle Induces Intestinal Epithelial Purine Metabolism Imbalance and Hepatic Disfunctions in Antibiotic-Mediated Gut Microbiota Perturbation Mice. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23, 6008	6.3	0
432	Effect of Natural Chinese Herbal Supplements (TCMF4) on Lactation Performance and Serum Biomarkers in Peripartal Dairy Cows.. <i>Frontiers in Veterinary Science</i> , <b>2021</b> , 8, 801418	3.1	
431	Network Pharmacology-Based Analysis of (Blanco) Benth Beneficial Effects to Alleviate Nonalcoholic Fatty Liver Disease in Mice.. <i>Frontiers in Pharmacology</i> , <b>2021</b> , 12, 789430	5.6	1
430	Lycium barbarum polysaccharides alleviate LPS-induced inflammatory responses through PPAR $\gamma$ /MAPK/NF- $\kappa$ B pathway in bovine mammary epithelial cells. <i>Journal of Animal Science</i> , <b>2021</b> ,	0.7	3
429	Suitability of rumination time during the first week after calving for detecting metabolic status and lactation performance in simmental dairy cows: a cluster-analytic approach. <i>Italian Journal of Animal Science</i> , <b>2021</b> , 20, 1909-1923	2.2	0
428	Ruminal Microbes Exhibit a Robust Circadian Rhythm and Are Sensitive to Melatonin. <i>Frontiers in Nutrition</i> , <b>2021</b> , 8, 760578	6.2	1
427	Analysis of Cow-Calf Microbiome Transfer Routes and Microbiome Diversity in the Newborn Holstein Dairy Calf Hindgut. <i>Frontiers in Nutrition</i> , <b>2021</b> , 8, 736270	6.2	3
426	Free fatty acids impair autophagic activity and activate nuclear factor kappa B signaling and NLR family pyrin domain containing 3 inflammasome in calf hepatocytes. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 11973-11982	4	1
425	Progress on the Regulation of Ruminant Milk Fat by Noncoding RNAs and ceRNAs. <i>Frontiers in Genetics</i> , <b>2021</b> , 12, 733925	4.5	1
424	One-carbon, carnitine, and glutathione metabolism-related biomarkers in peripartal Holstein cows are altered by prepartal body condition. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 3403-3417	4	2

423	Transcription factor EB (TFEB)-mediated autophagy protects bovine mammary epithelial cells against HO-induced oxidative damage in vitro. <i>Journal of Animal Science and Biotechnology</i> , <b>2021</b> , 12, 35	6	5
422	All-trans retinoic acid controls differentiation, proliferation, and lipolysis in isolated subcutaneous adipocytes from periparturient Holstein cows. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 4999-5008	4	3
421	Unique adaptations in neonatal hepatic transcriptome, nutrient signaling, and one-carbon metabolism in response to feeding ethyl cellulose rumen-protected methionine during late-gestation in Holstein cows. <i>BMC Genomics</i> , <b>2021</b> , 22, 280	4.5	3
420	Maternal body condition during late-pregnancy is associated with in utero development and neonatal growth of Holstein calves. <i>Journal of Animal Science and Biotechnology</i> , <b>2021</b> , 12, 44	6	3
419	Hepatic autophagy and mitophagy status in dairy cows with subclinical and clinical ketosis. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 4847-4857	4	2
418	Adenosine 5'-monophosphate-activated protein kinase ameliorates bovine adipocyte oxidative stress by inducing antioxidant responses and autophagy. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 4516-4528	4	3
417	Feeding a <i>Saccharomyces cerevisiae</i> fermentation product improves udder health and immune response to a <i>Streptococcus uberis</i> mastitis challenge in mid-lactation dairy cows. <i>Journal of Animal Science and Biotechnology</i> , <b>2021</b> , 12, 62	6	4
416	Metformin acts to suppress $\beta$ -hydroxybutyric acid-mediated inflammatory responses through activation of AMPK signaling in bovine hepatocytes. <i>Journal of Animal Science</i> , <b>2021</b> , 99,	0.7	1
415	Inhibition of cell death inducing DNA fragmentation factor- $\beta$ -like effector c (CIDEc) by tumor necrosis factor- $\beta$ induces lipolysis and inflammation in calf adipocytes. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 6134-6145	4	1
414	Phosphatase and tensin homolog (PTEN) suppresses triacylglycerol accumulation and monounsaturated fatty acid synthesis in goat mammary epithelial cells. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 7283-7294	4	4
413	Enhanced mitochondrial dysfunction and oxidative stress in the mammary gland of cows with clinical ketosis. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 6909-6918	4	9
412	Intracellular $Ca^{2+}$ signaling and ORAI calcium release-activated calcium modulator 1 are associated with hepatic lipidosis in dairy cattle. <i>Journal of Animal Science</i> , <b>2021</b> , 99,	0.7	2
411	Energy, nitrogen partitioning, and methane emissions in dairy goats differ when an isoenergetic and isoproteic diet contained orange leaves and rice straw crop residues. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 7830-7844	4	1
410	Oxidative stress, NF- $\kappa$ B signaling, NLRP3 inflammasome, and caspase apoptotic pathways are activated in mammary gland of ketotic Holstein cows. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 849-861	4	6
409	Maternal body condition influences neonatal calf whole-blood innate immune molecular responses to ex vivo lipopolysaccharide challenge. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 2266-2279	4	6
408	The presence of an embryo affects day 14 uterine transcriptome depending on the nutritional status in sheep. b. Immune system and uterine remodeling. <i>Theriogenology</i> , <b>2021</b> , 161, 210-218	2.8	0
407	Abundance of solute carrier family 27 member 6 (SLC27A6) in the bovine mammary gland alters fatty acid metabolism. <i>Food and Function</i> , <b>2021</b> , 12, 4909-4920	6.1	2
406	Alterations in immune and antioxidant gene networks by gamma-D-glutamyl-meso-diaminopimelic acid in bovine mammary epithelial cells are attenuated by in vitro supply of methionine and arginine. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 776-785	4	2

405	Aloin protects mice from diet-induced non-alcoholic steatohepatitis via activation of Nrf2/HO-1 signaling. <i>Food and Function</i> , <b>2021</b> , 12, 696-705	6.1	3
404	Multifaceted role of one-carbon metabolism on immunometabolic control and growth during pregnancy, lactation and the neonatal period in dairy cattle. <i>Journal of Animal Science and Biotechnology</i> , <b>2021</b> , 12, 27	6	8
403	Arginine Alters miRNA Expression Involved in Development and Proliferation of Rat Mammary Tissue. <i>Animals</i> , <b>2021</b> , 11,	3.1	1
402	l-Arginine Alleviates Hydrogen Peroxide-Induced Oxidative Damage in Ovine Intestinal Epithelial Cells by Regulating Apoptosis, Mitochondrial Function, and Autophagy. <i>Journal of Nutrition</i> , <b>2021</b> , 151, 1038-1046	4.1	2
401	Metformin activated AMPK signaling contributes to the alleviation of LPS-induced inflammatory responses in bovine mammary epithelial cells. <i>BMC Veterinary Research</i> , <b>2021</b> , 17, 97	2.7	7
400	Partial substitution of fish oil for linseed oil enhances beneficial fatty acids from rumen biohydrogenation but reduces ruminal fermentation and digestibility in growing goats. <i>Translational Animal Science</i> , <b>2021</b> , 5, txab116	1.4	
399	Propionate alleviates palmitic acid-induced endoplasmic reticulum stress by enhancing autophagy in calf hepatic cells. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 9316-9326	4	0
398	Disruption of endoplasmic reticulum homeostasis exacerbates liver injury in clinically ketotic cows. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 9130-9141	4	1
397	Biosorption of Copper in Swine Manure Using and Yeast: Characterization and Its Microbial Diversity Study. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 687533	5.7	
396	Maternal supplementation with cobalt sources, folic acid, and rumen-protected methionine and its effects on molecular and functional correlates of the immune system in neonatal Holstein calves. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 9340-9354	4	1
395	Antioxidant networks and the microbiome as components of efficiency in dairy cattle. <i>Livestock Science</i> , <b>2021</b> , 251, 104656	1.7	0
394	Nuclear factor erythroid 2-related factor 2 protects bovine mammary epithelial cells against free fatty acid-induced mitochondrial dysfunction in vitro. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 12830-12844	4	3
393	Sirtuin 3 inhibits nuclear factor- $\kappa$ B signaling activated by a fatty acid challenge in bovine mammary epithelial cells. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 12871-12880	4	2
392	Reducing hepatic endoplasmic reticulum stress ameliorates the impairment in insulin signaling induced by high levels of $\beta$ -hydroxybutyrate in bovine hepatocytes. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 12845-12858	4	1
391	Cadmium promotes apoptosis and inflammation via the circ08409/miR-133a/TGFB2 axis in bovine mammary epithelial cells and mouse mammary gland. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 222, 112477	7	6
390	Metabolomics and Proteomics Signatures in Feed-Efficient Beef and Dairy Cattle. <i>Sustainable Agriculture Reviews</i> , <b>2021</b> , 153-165	1.3	1
389	186 Young Scholar Presentation: Immunometabolism during periods of negative nutrient balance or heat stress is altered by dietary methyl donor supply in dairy cows. <i>Journal of Animal Science</i> , <b>2020</b> , 98, 13-14	0.7	78
388	Molecular networks of insulin signaling and amino acid metabolism in subcutaneous adipose tissue are altered by body condition in periparturient Holstein cows. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 10459-10476	4	4

387	Arginine Supply Impacts the Expression of Candidate microRNA Controlling Milk Casein Yield in Bovine Mammary Tissue. <i>Animals</i> , <b>2020</b> , 10,	3.1	4
386	Development of a dynamic energy-partitioning model for enteric methane emissions and milk production in goats using energy balance data from indirect calorimetry studies. <i>Animal</i> , <b>2020</b> , 14, s382-395	3.1	1
385	Fatty acid transport in plasma from cows treated with ruminal pulses of fish oil and partially hydrogenated vegetable oil. <i>Livestock Science</i> , <b>2020</b> , 236, 104018	1.7	1
384	Short communication: Enhanced autophagy activity in liver tissue of dairy cows with mild fatty liver. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 3628-3635	4	3
383	Mammary Transcriptome Profile during Peak and Late Lactation Reveals Differentially Expression Genes Related to Inflammation and Immunity in Chinese Holstein. <i>Animals</i> , <b>2020</b> , 10,	3.1	4
382	Inclusion of lemon leaves and rice straw into compound feed and its effect on nutrient balance, milk yield, and methane emissions in dairy goats. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 6178-6189	4	3
381	Mammary Gland: Growth, Development and Involution <b>2020</b> , 175-175		
380	Short communication: A decrease in diameter of milk fat globules accompanies milk fat depression induced by conjugated linoleic acid supplementation in lactating dairy cows. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 5143-5147	4	2
379	Role of peroxisome proliferator-activated receptor- $\beta$ on the synthesis of monounsaturated fatty acids in goat mammary epithelial cells. <i>Journal of Animal Science</i> , <b>2020</b> , 98,	0.7	3
378	Determination of the trace minerals requirements for maintenance and growth of 35B0 kg Dorper $\times$ Hu crossbred ram lambs. <i>Italian Journal of Animal Science</i> , <b>2020</b> , 19, 203-212	2.2	1
377	Supply of methionine and arginine alters phosphorylation of mechanistic target of rapamycin (mTOR), circadian clock proteins, and $\beta$ 1-casein abundance in bovine mammary epithelial cells. <i>Food and Function</i> , <b>2020</b> , 11, 883-894	6.1	15
376	Residual feed intake divergence during the preweaning period is associated with unique hindgut microbiome and metabolome profiles in neonatal Holstein heifer calves. <i>Journal of Animal Science and Biotechnology</i> , <b>2020</b> , 11, 13	6	16
375	Lipidomic profiling analysis of the phospholipid molecules in SCAP-induced lipid droplet formation in bovine mammary epithelial cells. <i>Prostaglandins and Other Lipid Mediators</i> , <b>2020</b> , 149, 106420	3.7	2
374	The embryo affects day 14 uterine transcriptome depending on nutritional status in sheep. a. Metabolic adaptation to pregnancy in nourished and undernourished ewes. <i>Theriogenology</i> , <b>2020</b> , 146, 14-19	2.8	2
373	Cyanidin-3-O-glucoside improves non-alcoholic fatty liver disease by promoting PINK1-mediated mitophagy in mice. <i>British Journal of Pharmacology</i> , <b>2020</b> , 177, 3591-3607	8.6	26
372	Dietary supplementation of l-arginine and N-carbamylglutamate enhances duodenal barrier and mitochondrial functions and suppresses duodenal inflammation and mitophagy in suckling lambs suffering from intrauterine-growth-restriction. <i>Food and Function</i> , <b>2020</b> , 11, 4456-4470	6.1	7
371	-Carbamylglutamate and l-arginine supplementation improve hepatic antioxidant status in intrauterine growth-retarded suckling lambs.. <i>RSC Advances</i> , <b>2020</b> , 10, 11173-11181	3.7	4
370	High levels of fatty acids inhibit $\beta$ -casein synthesis through suppression of the JAK2/STAT5 and mTOR signaling pathways in mammary epithelial cells of cows with clinical ketosis. <i>Journal of Dairy Research</i> , <b>2020</b> , 87, 212-219	1.6	2

369	338 Awardee Talk: Superior feed efficiency and maternal supply of methionine are associated with unique gut microbiome in beef and dairy cattle. <i>Journal of Animal Science</i> , <b>2020</b> , 98, 70-71	0.7	
368	Association of UDP-galactose-4-epimerase with milk protein concentration in the Chinese Holstein population. <i>Asian-Australasian Journal of Animal Sciences</i> , <b>2020</b> , 33, 1725-1731	2.4	1
367	Short communication: Inflammation, migration, and cell-cell interaction-related gene network expression in leukocytes is enhanced in Simmental compared with Holstein dairy cows after calving. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 1908-1913	4	9
366	Orai calcium release-activated calcium modulator 1 (ORAI1) plays a role in endoplasmic reticulum stress in bovine mammary epithelial cells challenged with physiological levels of ketone bodies. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 4691-4701	4	7
365	Body condition alters glutathione and nuclear factor erythroid 2-like 2 (NFE2L2)-related antioxidant network abundance in subcutaneous adipose tissue of periparturient Holstein cows. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 6439-6453	4	8
364	Short communication: The antilipogenic effect of trans-10,cis-12 conjugated linoleic acid in bovine mammary epithelial cells is associated with proteasome activity and ATP production. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 9096-9101	4	1
363	Sodium butyrate reduces bovine mammary epithelial cell inflammatory responses induced by exogenous lipopolysaccharide, by inactivating NF- $\kappa$ B signaling. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 8388-8397	4	15
362	Negative regulation of $\kappa$ -casein (CSN1S1) improves $\kappa$ -casein content and reduces allergy potential in goat milk. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 9561-9572	4	4
361	Methyl donor supply to heat stress-challenged polymorphonuclear leukocytes from lactating Holstein cows enhances 1-carbon metabolism, immune response, and cytoprotective gene network abundance. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 10477-10493	4	2
360	Mitochondrial dysfunction and endoplasmic reticulum stress in calf hepatocytes are associated with fatty acid-induced ORAI calcium release-activated calcium modulator 1 signaling. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 11945-11956	4	6
359	Ruminal epithelial cell proliferation and short-chain fatty acid transporters in vitro are associated with abundance of period circadian regulator 2 (PER2). <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 12091-12103	4	3
358	Cardamonin Reduces Acetaminophen-Induced Acute Liver Injury in Mice via Activating Autophagy and NFE2L2 Signaling. <i>Frontiers in Pharmacology</i> , <b>2020</b> , 11, 601716	5.6	6
357	Evaluation of circulating leukocyte transcriptome and its relationship with immune function and blood markers in dairy cows during the transition period. <i>Functional and Integrative Genomics</i> , <b>2020</b> , 20, 293-305	3.8	12
356	Prepartum dietary energy intake alters adipose tissue transcriptome profiles during the periparturient period in Holstein dairy cows. <i>Journal of Animal Science and Biotechnology</i> , <b>2020</b> , 11, 1	6	32
355	Hepatic one-carbon metabolism enzyme activities and intermediate metabolites are altered by prepartum body condition score and plane of nutrition in grazing Holstein dairy cows. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 2662-2676	4	4
354	Methionine and arginine supplementation alter inflammatory and oxidative stress responses during lipopolysaccharide challenge in bovine mammary epithelial cells in vitro. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 676-689	4	20
353	Feeding synthetic zeolite to transition dairy cows alters neutrophil gene expression. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 723-736	4	5
352	Comprehensive Transcriptome Profiling of Dairy Goat Mammary Gland Identifies Genes and Networks Crucial for Lactation and Fatty Acid Metabolism. <i>Frontiers in Genetics</i> , <b>2020</b> , 11, 878	4.5	0



351	Circ09863 Regulates Unsaturated Fatty Acid Metabolism by Adsorbing miR-27a-3p in Bovine Mammary Epithelial Cells. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 8589-8601	5.7	6
350	Knockout of butyrophilin subfamily 1 member A1 () alters lipid droplet formation and phospholipid composition in bovine mammary epithelial cells. <i>Journal of Animal Science and Biotechnology</i> , <b>2020</b> , 11, 72	6	8
349	Identification of Milk Fat Metabolism-Related Pathways of the Bovine Mammary Gland during Mid and Late Lactation and Functional Verification of the Gene. <i>Genes</i> , <b>2020</b> , 11,	4.2	2
348	Potential hemo-biological identification markers to the left displaced abomasum in dairy cows. <i>BMC Veterinary Research</i> , <b>2020</b> , 16, 470	2.7	0
347	Potential of Mulberry Leaf Biomass and Its Flavonoids to Improve Production and Health in Ruminants: Mechanistic Insights and Prospects. <i>Animals</i> , <b>2020</b> , 10,	3.1	11
346	Tea Tree Oil Prevents Mastitis-Associated Inflammation in Lipopolysaccharide-Stimulated Bovine Mammary Epithelial Cells. <i>Frontiers in Veterinary Science</i> , <b>2020</b> , 7, 496	3.1	7
345	Supplemental Herbal Choline Increases 5-hmC DNA on Whole Blood from Pregnant Ewes and Offspring. <i>Animals</i> , <b>2020</b> , 10,	3.1	5
344	Lipid Accumulation and Injury in Primary Calf Hepatocytes Challenged With Different Long-Chain Fatty Acids. <i>Frontiers in Veterinary Science</i> , <b>2020</b> , 7, 547047	3.1	3
343	miR-122 regulates the JAK-STAT signalling pathway by down-regulating EPO in the mammary gland during Streptococcus agalactiae-induced mastitis. <i>Italian Journal of Animal Science</i> , <b>2020</b> , 19, 1236-1243	2.2	0
342	cAMP Response Element Binding Protein 1 (CREB1) Promotes Monounsaturated Fatty Acid Synthesis and Triacylglycerol Accumulation in Goat Mammary Epithelial Cells. <i>Animals</i> , <b>2020</b> , 10,	3.1	3
341	Effects of dietary polyunsaturated fatty acid sources on expression of lipid-related genes in bovine milk somatic cells. <i>Scientific Reports</i> , <b>2020</b> , 10, 14850	4.9	2
340	Amino acids and the regulation of oxidative stress and immune function in dairy cattle. <i>Journal of Animal Science</i> , <b>2020</b> , 98, S175-S193	0.7	18
339	l-Arginine Inhibits Apoptosis of Ovine Intestinal Epithelial Cells through the l-Arginine-Nitric Oxide Pathway. <i>Journal of Nutrition</i> , <b>2020</b> , 150, 2051-2060	4.1	2
338	regulates fatty acid synthesis LATS2 in bovine mammary epithelial cells. <i>Food and Function</i> , <b>2020</b> , 11, 8625-8636	6.1	7
337	Effects of rumen-protected betaine supplementation on meat quality and the composition of fatty and amino acids in growing lambs. <i>Animal</i> , <b>2020</b> , 14, 435-444	3.1	10
336	Effects of intravenous arginine infusion on inflammation and metabolic indices of dairy cows in early lactation. <i>Animal</i> , <b>2020</b> , 14, 346-352	3.1	5
335	Pegbovigrastim Treatment around Parturition Enhances Postpartum Immune Response Gene Network Expression of whole Blood Leukocytes in Holstein and Simmental Cows. <i>Animals</i> , <b>2020</b> , 10,	3.1	6
334	Inflammation and oxidative stress transcription profiles due to in vitro supply of methionine with or without choline in unstimulated blood polymorphonuclear leukocytes from lactating Holstein cows. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 10395-10410	4	10

333	Short communication: Supply of methionine during late pregnancy enhances whole-blood innate immune response of Holstein calves partly through changes in mRNA abundance in polymorphonuclear leukocytes. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 10599-10605	4	10
332	Hepatic 1-carbon metabolism enzyme activity, intermediate metabolites, and growth in neonatal Holstein dairy calves are altered by maternal supply of methionine during late pregnancy. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 10291-10303	4	15
331	Transcriptome Analysis of the Effects of Fasting Caecotrophy on Hepatic Lipid Metabolism in New Zealand Rabbits. <i>Animals</i> , <b>2019</b> , 9,	3.1	5
330	Chinese Herbal Formula (CHF03) Attenuates Non-Alcoholic Fatty Liver Disease (NAFLD) Through Inhibiting Lipogenesis and Anti-Oxidation Mechanisms. <i>Frontiers in Pharmacology</i> , <b>2019</b> , 10, 1190	5.6	7
329	Long-Term Effects of Dietary Olive Oil and Hydrogenated Vegetable Oil on Expression of Lipogenic Genes in Subcutaneous Adipose Tissue of Dairy Cows. <i>Veterinary Sciences</i> , <b>2019</b> , 6,	2.4	3
328	Hepatic betaine-homocysteine methyltransferase and methionine synthase activity and intermediates of the methionine cycle are altered by choline supply during negative energy balance in Holstein cows. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 8305-8318	4	8
327	Monensin controlled-release capsule administered in late-pregnancy differentially affects rumination patterns, metabolic status, and cheese-making properties of the milk in primiparous and multiparous cows. <i>Italian Journal of Animal Science</i> , <b>2019</b> , 18, 1271-1283	2.2	4
326	52 Young Scholar Presentation: Maternal supply of methionine during late-pregnancy alters in utero and neonatal development, hepatic one-carbon metabolism, and innate immune response in Holstein calves. <i>Journal of Animal Science</i> , <b>2019</b> , 97, 26-27	0.7	78
325	L-Arginine protects ovine intestinal epithelial cells from lipopolysaccharide-induced intestinal barrier injury. <i>Food and Agricultural Immunology</i> , <b>2019</b> , 30, 1067-1084	2.9	5
324	MiR-16a Regulates Milk Fat Metabolism by Targeting Large Tumor Suppressor Kinase 1 () in Bovine Mammary Epithelial Cells. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 11167-11178	5.7	20
323	Jugular arginine supplementation increases lactation performance and nitrogen utilization efficiency in lactating dairy cows. <i>Journal of Animal Science and Biotechnology</i> , <b>2019</b> , 10, 3	6	7
322	Dietary Egg Protein Prevents Hyperhomocysteinemia via Upregulation of Hepatic Betaine-Homocysteine S-Methyltransferase Activity in Folate-Restricted Rats. <i>Journal of Nutrition</i> , <b>2019</b> , 149, 1369-1376	4.1	4
321	Nutrigenomic Effect of Saturated and Unsaturated Long Chain Fatty Acids on Lipid-Related Genes in Goat Mammary Epithelial Cells: What Is the Role of PPAR $\alpha$ . <i>Veterinary Sciences</i> , <b>2019</b> , 6,	2.4	9
320	Influence of the concentration of dietary digestible calcium on growth performance, bone mineralization, plasma calcium, and abundance of genes involved in intestinal absorption of calcium in pigs from 11 to 22 kg fed diets with different concentrations of digestible phosphorus. <i>Journal of Animal Science and Biotechnology</i> , <b>2019</b> , 10, 47	6	20
319	Cellular Mechanisms and Epigenetic Changes: Role of Nutrition in Livestock. <i>Veterinary Clinics of North America - Food Animal Practice</i> , <b>2019</b> , 35, 249-263	4.6	5
318	Fatty acid-induced endoplasmic reticulum stress promoted lipid accumulation in calf hepatocytes, and endoplasmic reticulum stress existed in the liver of severe fatty liver cows. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 7359-7370	4	32
317	Adipose tissue proteomic analysis in ketotic or healthy Holstein cows in early lactation1. <i>Journal of Animal Science</i> , <b>2019</b> , 97, 2837-2849	0.7	6
316	N-Carbamylglutamate and L-Arginine Promote Intestinal Absorption of Amino Acids by Regulating the mTOR Signaling Pathway and Amino Acid and Peptide Transporters in Suckling Lambs with Intrauterine Growth Restriction. <i>Journal of Nutrition</i> , <b>2019</b> , 149, 923-932	4.1	9



315	MicroRNA-106b Regulates Milk Fat Metabolism via ATP Binding Cassette Subfamily A Member 1 (ABCA1) in Bovine Mammary Epithelial Cells. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 3981-3990	5.7	25
314	Phosphorylation of AKT serine/threonine kinase and abundance of milk protein synthesis gene networks in mammary tissue in response to supply of methionine in periparturient Holstein cows. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 4264-4274	4	8
313	Methionine supply during the periparturient period enhances insulin signaling, amino acid transporters, and mechanistic target of rapamycin pathway proteins in adipose tissue of Holstein cows. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 4403-4414	4	15
312	Effect of heat-shock protein B7 on oxidative stress in adipocytes from preruminant calves. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 5673-5685	4	11
311	Glutathione metabolism and nuclear factor erythroid 2-like 2 (NFE2L2)-related proteins in adipose tissue are altered by supply of ethyl-cellulose rumen-protected methionine in periparturient Holstein cows. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 5530-5541	4	7
310	Repeated pregnant mare serum gonadotropin-mediated oestrous synchronization alters gene expression in the ovaries and reduces reproductive performance in dairy goats. <i>Reproduction in Domestic Animals</i> , <b>2019</b> , 54, 873-881	1.6	5
309	Methionine Supply During Late-Gestation Triggers Offspring Sex-Specific Divergent Changes in Metabolic and Epigenetic Signatures in Bovine Placenta. <i>Journal of Nutrition</i> , <b>2019</b> , 149, 6-17	4.1	18
308	Effects of arginase inhibition via jugular infusion of N-hydroxy-nor-L-arginine on metabolic and immune indices in lactating dairy cows. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 3310-3320	4	2
307	RAPID COMMUNICATION: Residual feed intake in beef cattle is associated with differences in protein turnover and nutrient transporters in ruminal epithelium. <i>Journal of Animal Science</i> , <b>2019</b> , 97, 2181-2187	0.7	10
306	Effects of Dietary Vegetable Oils on Mammary Lipid-Related Genes in Holstein Dairy Cows. <i>Animals</i> , <b>2019</b> , 10,	3.1	2
305	Effect of Soybean Oil and Fish Oil on Lipid-Related Transcripts in Subcutaneous Adipose Tissue of Dairy Cows. <i>Animals</i> , <b>2019</b> , 10,	3.1	3
304	Nutrition as a way to improve the dairy industry sustainability: a nutrigenomic approach. <i>Journal of Animal Science</i> , <b>2019</b> , 97, 29-30	0.7	0
303	Immunometabolic status and productive performance differences between periparturient Simmental and Holstein dairy cows in response to pegbovigrastim. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 9312-9327	4	19
302	Effects of ORAI calcium release-activated calcium modulator 1 (ORAI1) on neutrophil activity in dairy cows with subclinical hypocalcemia <sup>1</sup> . <i>Journal of Animal Science</i> , <b>2019</b> , 97, 3326-3336	0.7	19
301	Choline supply during negative nutrient balance alters hepatic cystathionine β-synthase, intermediates of the methionine cycle and transsulfuration pathway, and liver function in Holstein cows. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 8319-8331	4	10
300	In vitro methionine supplementation during lipopolysaccharide stimulation modulates immunometabolic gene network expression in isolated polymorphonuclear cells from lactating Holstein cows. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 8343-8351	4	10
299	Low abundance of mitofusin 2 in dairy cows with moderate fatty liver is associated with alterations in hepatic lipid metabolism. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 7536-7547	4	8
298	Transcriptomic analysis of circulating neutrophils in metabolically stressed periparturient grazing dairy cows. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 7408-7420	4	5

297	Fatty Acid Elongase 7 (ELOVL7) Plays a Role in the Synthesis of Long-Chain Unsaturated Fatty Acids in Goat Mammary Epithelial Cells. <i>Animals</i> , <b>2019</b> , 9,	3.1	7
296	Hepatic nuclear factor kappa B signaling pathway and NLR family pyrin domain containing 3 inflammasome is over-activated in ketotic dairy cows. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 10554-10563	4	17
295	Supply of Methionine During Late-Pregnancy Alters Fecal Microbiota and Metabolome in Neonatal Dairy Calves Without Changes in Daily Feed Intake. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 2159	5.7	19
294	N-carbamylglutamate and l-arginine promote intestinal function in suckling lambs with intrauterine growth restriction by regulating antioxidant capacity via a nitric oxide-dependent pathway. <i>Food and Function</i> , <b>2019</b> , 10, 6374-6384	6.1	8
293	Short communication: Relationship between lysine/methionine ratios and glucose levels and their effects on casein synthesis via activation of the mechanistic target of rapamycin signaling pathway in bovine mammary epithelial cells. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 8127-8133	4	6
292	Rumen-protected methionine supplementation during the periparturient period alters the expression of galectin genes associated with inflammation in peripheral neutrophils and secretion in plasma of Holstein cows. <i>Journal of Dairy Research</i> , <b>2019</b> , 86, 394-398	1.6	0
291	Screening candidate microR-15a- regulatory pairs for predicting the response to -induced mastitis in dairy cows. <i>Journal of Dairy Research</i> , <b>2019</b> , 86, 425-431	1.6	7
290	Hepatic Cystathionine $\beta$ -Synthase Activity Is Increased by Greater Postprandial Supply of Met during the Periparturient Period in Dairy Cows. <i>Current Developments in Nutrition</i> , <b>2019</b> , 3, nzz128	0.4	3
289	Dietary N-carbamylglutamate and l-arginine supplementation improves intestinal energy status in intrauterine-growth-retarded suckling lambs. <i>Food and Function</i> , <b>2019</b> , 10, 1903-1914	6.1	13
288	Hepatic metabolomics and transcriptomics to study susceptibility to ketosis in response to preparturient nutritional management. <i>Journal of Animal Science and Biotechnology</i> , <b>2019</b> , 10, 96	6	8
287	Tea polyphenols protect bovine mammary epithelial cells from hydrogen peroxide-induced oxidative damage in vitro by activating NFE2L2/HMOX1 pathways. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 1658-1670	4	24
286	Insulin-induced gene 1 and 2 isoforms synergistically regulate triacylglycerol accumulation, lipid droplet formation, and lipogenic gene expression in goat mammary epithelial cells. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 1736-1746	4	11
285	Perilipin 5 promotes hepatic steatosis in dairy cows through increasing lipid synthesis and decreasing very low density lipoprotein assembly. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 833-845	4	14
284	Far-off and close-up feeding levels affect immunological performance in grazing dairy cows during the transition period. <i>Journal of Animal Science</i> , <b>2019</b> , 97, 192-207	0.7	1
283	Enhanced supply of methionine or arginine alters mechanistic target of rapamycin signaling proteins, messenger RNA, and microRNA abundance in heat-stressed bovine mammary epithelial cells in vitro. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 2469-2480	4	25
282	Regulation of Stearoyl-Coenzyme A Desaturase 1 by trans-10, cis-12 Conjugated Linoleic Acid via SREBP1 in Primary Goat Mammary Epithelial Cells. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 1463-1469	5.7	5
281	High expression of cell death-inducing DFFA-like effector a (CIDEA) promotes milk fat content in dairy cows with clinical ketosis. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 1682-1692	4	19
280	Tilmicosin modulates the innate immune response and preserves casein production in bovine mammary alveolar cells during <i>Staphylococcus aureus</i> infection. <i>Journal of Animal Science</i> , <b>2019</b> , 97, 644-656	0.7	2

279	Effect of different exogenous fatty acids on the cytosolic triacylglycerol content in bovine mammary cells. <i>Animal Nutrition</i> , <b>2019</b> , 5, 202-208	4.8	7
278	Fatty acid elongase 5 (ELOVL5) alters the synthesis of long-chain unsaturated fatty acids in goat mammary epithelial cells. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 4586-4594	4	12
277	Phosphorylation of nuclear factor erythroid 2-like 2 (NFE2L2) in mammary tissue of Holstein cows during the periparturient period is associated with mRNA abundance of antioxidant gene networks. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 6511-6522	4	9
276	Nuclear factor erythroid 2-related factor 2-antioxidant activation through the action of ataxia telangiectasia-mutated serine/threonine kinase is essential to counteract oxidative stress in bovine mammary epithelial cells. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 5317-5328	4	12
275	Serotonin induces parathyroid hormone-related protein in goat mammary gland. <i>Journal of Animal Science</i> , <b>2018</b> , 96, 1010-1016	0.7	4
274	Inhibition of arginase via jugular infusion of N-hydroxy-nor-L-arginine inhibits casein synthesis in lactating dairy cows. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 3514-3523	4	7
273	Peroxisome proliferator-activated receptor delta regulates lipid droplet formation and transport in goat mammary epithelial cells. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 2641-2649	4	3
272	MiR-183 regulates milk fat metabolism via MST1 in goat mammary epithelial cells. <i>Gene</i> , <b>2018</b> , 646, 12-19, 8	17	
271	Varying the ratio of Lys:Met while maintaining the ratios of Thr:Phe, Lys:Thr, Lys:His, and Lys:Val alters mammary cellular metabolites, mammalian target of rapamycin signaling, and gene transcription. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 1708-1718	4	31
270	Akt Serine/Threonine Kinase 1 Regulates de Novo Fatty Acid Synthesis through the Mammalian Target of Rapamycin/Sterol Regulatory Element Binding Protein 1 Axis in Dairy Goat Mammary Epithelial Cells. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 1197-1205	5.7	19
269	Overexpression of SREBF chaperone (SCAP) enhances nuclear SREBP1 translocation to upregulate fatty acid synthase (FASN) gene expression in bovine mammary epithelial cells. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 6523-6531	4	13
268	Nuclear factor erythroid 2-related factor 2 antioxidant response element pathways protect bovine mammary epithelial cells against HO-induced oxidative damage in vitro. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 5329-5344	4	22
267	Effects of Dietary L-Arginine and N-Carbamylglutamate Supplementation on Intestinal Integrity, Immune Function, and Oxidative Status in Intrauterine-Growth-Retarded Suckling Lambs. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 4145-4154	5.7	36
266	Increasing the availability of threonine, isoleucine, valine, and leucine relative to lysine while maintaining an ideal ratio of lysine:methionine alters mammary cellular metabolites, mammalian target of rapamycin signaling, and gene transcription. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 5502-5514	4	17
265	Acyl-CoA synthetase short-chain family member 2 (ACSS2) is regulated by SREBP-1 and plays a role in fatty acid synthesis in caprine mammary epithelial cells. <i>Journal of Cellular Physiology</i> , <b>2018</b> , 233, 1005-1016 <sup>50</sup>	7	16
264	Mechanism of prolactin inhibition of miR-135b via methylation in goat mammary epithelial cells. <i>Journal of Cellular Physiology</i> , <b>2018</b> , 233, 651-662	7	16
263	Association of residual feed intake with abundance of ruminal bacteria and biopolymer hydrolyzing enzyme activities during the periparturient period and early lactation in Holstein dairy cows. <i>Journal of Animal Science and Biotechnology</i> , <b>2018</b> , 9, 43	6	16
262	Transcriptional profiling of swine mammary gland during the transition from colostrogenesis to lactogenesis using RNA sequencing. <i>BMC Genomics</i> , <b>2018</b> , 19, 322	4.5	15

261	Tea polyphenols protect bovine mammary epithelial cells from hydrogen peroxide-induced oxidative damage in vitro. <i>Journal of Animal Science</i> , <b>2018</b> , 96, 4159-4172	0.7	13
260	Dietary N-carbamylglutamate and rumen-protected L-arginine supplementation during intrauterine growth restriction in undernourished ewes improve fetal thymus development and immune function. <i>Reproduction, Fertility and Development</i> , <b>2018</b> , 30, 1522-1531	1.8	12
259	Body condition score prior to parturition is associated with plasma and adipose tissue biomarkers of lipid metabolism and inflammation in Holstein cows. <i>Journal of Animal Science and Biotechnology</i> , <b>2018</b> , 9, 12	6	17
258	Rumen-protected methionine during the periparturient period in dairy cows and its effects on abundance of major species of ruminal bacteria. <i>Journal of Animal Science and Biotechnology</i> , <b>2018</b> , 9, 17	6	11
257	Transcriptomics and iTRAQ-Proteomics Analyses of Bovine Mammary Tissue with <i>Streptococcus agalactiae</i> -Induced Mastitis. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 11188-11196	5.7	13
256	Review: Enhancing gastrointestinal health in dairy cows. <i>Animal</i> , <b>2018</b> , 12, s399-s418	3.1	56
255	Plasma fructosamine during the transition period and its relationship with energy metabolism and inflammation biomarkers in dairy cows. <i>Livestock Science</i> , <b>2018</b> , 216, 138-147	1.7	12
254	Sodium Butyrate Supplementation Alleviates the Adaptive Response to Inflammation and Modulates Fatty Acid Metabolism in Lipopolysaccharide-Stimulated Bovine Hepatocytes. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 6281-6290	5.7	16
253	Maternal supply of methionine during late pregnancy is associated with changes in immune function and abundance of microRNA and mRNA in Holstein calf polymorphonuclear leukocytes. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 8146-8158	4	20
252	Methionine supply alters mammary gland antioxidant gene networks via phosphorylation of nuclear factor erythroid 2-like 2 (NFE2L2) protein in dairy cows during the periparturient period. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 8505-8512	4	16
251	Hepatic phosphorylation status of serine/threonine kinase 1, mammalian target of rapamycin signaling proteins, and growth rate in Holstein heifer calves in response to maternal supply of methionine. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 8476-8491	4	5
250	Bioinformatics Analyses of Bovine Adipose Tissue Transcriptome from Lilu Beef Cattle at Different Stages of Growth. <i>Pakistan Journal of Zoology</i> , <b>2018</b> , 50,	1.7	3
249	Ethyl-cellulose rumen-protected methionine alleviates inflammation and oxidative stress and improves neutrophil function during the periparturient period and early lactation in Holstein dairy cows. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 480-490	4	59
248	Trans10, cis12 conjugated linoleic acid increases triacylglycerol accumulation in goat mammary epithelial cells in vitro. <i>Animal Science Journal</i> , <b>2018</b> , 89, 432-440	1.8	4
247	Higher plane of nutrition pre-weaning enhances Holstein calf mammary gland development through alterations in the parenchyma and fat pad transcriptome. <i>BMC Genomics</i> , <b>2018</b> , 19, 900	4.5	9
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245	Residual feed intake in beef cattle and its association with carcass traits, ruminal solid-fraction bacteria, and epithelium gene expression. <i>Journal of Animal Science and Biotechnology</i> , <b>2018</b> , 9, 67	6	20
244	Effects of chronic heat stress on lactational performance and the transcriptomic profile of blood cells in lactating dairy goats. <i>Journal of Dairy Research</i> , <b>2018</b> , 85, 423-430	1.6	13

243	Methionine and valine activate the mammalian target of rapamycin complex 1 pathway through heterodimeric amino acid taste receptor (TAS1R1/TAS1R3) and intracellular Ca in bovine mammary epithelial cells. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 11354-11363	4	24
242	Methionine and choline supply alter transmethylation, transsulfuration, and cytidine 5'-diphosphocholine pathways to different extents in isolated primary liver cells from dairy cows. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 11384-11395	4	14
241	Impaired hepatic autophagic activity in dairy cows with severe fatty liver is associated with inflammation and reduced liver function. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 11175-11185	4	18
240	Dietary energy level affects adipose depot mass but does not impair in vitro subcutaneous adipose tissue response to short-term insulin and tumor necrosis factor- $\alpha$ challenge in nonlactating, nonpregnant Holstein cows. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 10206-10219	4	5
239	Association between the expression of miR-26 and goat milk fatty acids. <i>Reproduction in Domestic Animals</i> , <b>2018</b> , 53, 1478-1482	1.6	8
238	Methionine and choline supply during the peripartal period alter polymorphonuclear leukocyte immune response and immunometabolic gene expression in Holstein cows. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 10374-10382	4	19
237	Rapid communication: lipid metabolic gene expression and triacylglycerol accumulation in goat mammary epithelial cells are decreased by inhibition of SREBP-1. <i>Journal of Animal Science</i> , <b>2018</b> , 96, 2399-2407	0.7	12
236	Skeletal muscle and liver gene expression profiles in finishing steers supplemented with Amaize. <i>Animal Science Journal</i> , <b>2018</b> , 89, 1107-1119	1.8	2
235	Prepartal standing behavior as a parameter for early detection of postpartal subclinical ketosis associated with inflammation and liver function biomarkers in peripartal dairy cows. <i>Journal of Dairy Science</i> , <b>2018</b> , 101, 8224-8235	4	25
234	Jugular infusion of arginine has a positive effect on antioxidant mechanisms in lactating dairy cows challenged intravenously with lipopolysaccharide1. <i>Journal of Animal Science</i> , <b>2018</b> , 96, 3850-3855	0.7	4
233	Transport of fatty acids within plasma lipoproteins in lactating and non-lactating cows fed on fish oil and hydrogenated palm oil. <i>Journal of Animal Physiology and Animal Nutrition</i> , <b>2017</b> , 101, 369-377	2.6	7
232	SCD1 Alters Long-Chain Fatty Acid (LCFA) Composition and Its Expression Is Directly Regulated by SREBP-1 and PPAR $\alpha$ in Dairy Goat Mammary Cells. <i>Journal of Cellular Physiology</i> , <b>2017</b> , 232, 635-649	7	40
231	miR-148a and miR-17-5p synergistically regulate milk TAG synthesis via PPARGC1A and PPARA in goat mammary epithelial cells. <i>RNA Biology</i> , <b>2017</b> , 14, 326-338	4.8	46
230	Strategies to gain body condition score in pasture-based dairy cows during late lactation and the far-off nonlactating period and their interaction with close-up dry matter intake. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 1720-1738	4	16
229	Effects of precalving body condition and prepartum feeding level on gene expression in circulating neutrophils. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 2310-2322	4	12
228	Far-off and close-up dry matter intake modulate indicators of immunometabolic adaptations to lactation in subcutaneous adipose tissue of pasture-based transition dairy cows. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 2334-2350	4	21
227	Effects of dietary neutral detergent fiber and starch ratio on rumen epithelial cell morphological structure and gene expression in dairy cows. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 3705-3712	4	9
226	Short communication: Arginase inhibition reduces the synthesis of casein in bovine mammary epithelial cells. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 4128-4133	4	8



225	Expression of fatty acid sensing G-protein coupled receptors in peripartal Holstein cows. <i>Journal of Animal Science and Biotechnology</i> , <b>2017</b> , 8, 20	6	11
224	Maternal supplementation with rumen-protected methionine increases prepartal plasma methionine concentration and alters hepatic mRNA abundance of 1-carbon, methionine, and transsulfuration pathways in neonatal Holstein calves. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 3209-3219	4	23
223	Supplemental methionine, choline, or taurine alter in vitro gene network expression of polymorphonuclear leukocytes from neonatal Holstein calves. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 3155-3165	4	23
222	Supplemental Smartamine M in higher-energy diets during the prepartal period improves hepatic biomarkers of health and oxidative status in Holstein cows. <i>Journal of Animal Science and Biotechnology</i> , <b>2017</b> , 8, 17	6	4
221	Effect of circulating exosomes from transition cows on Madin-Darby bovine kidney cell function. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 5687-5700	4	8
220	Peripheral leukocyte and endometrium molecular biomarkers of inflammation and oxidative stress are altered in peripartal dairy cows supplemented with Zn, Mn, and Cu from amino acid complexes and Co from Co glucoheptonate. <i>Journal of Animal Science and Biotechnology</i> , <b>2017</b> , 8, 33	6	11
219	miR-26b promoter analysis reveals regulatory mechanisms by lipid-related transcription factors in goat mammary epithelial cells. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 5837-5849	4	6
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217	Differences in liver functionality indexes in peripartal dairy cows fed rumen-protected methionine or choline are associated with performance, oxidative stress status, and plasma amino acid profiles. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 6720-6732	4	13
216	Optimal ratios of essential amino acids stimulate Ecasein synthesis via activation of the mammalian target of rapamycin signaling pathway in MAC-T cells and bovine mammary tissue explants. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 6676-6688	4	19
215	Fatty acid elongase 6 plays a role in the synthesis of long-chain fatty acids in goat mammary epithelial cells. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 4987-4995	4	26
214	Supplementation with rumen-protected methionine or choline during the transition period influences whole-blood immune response in periparturient dairy cows. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 3958-3968	4	31
213	Level of dietary energy and 2,4-thiazolidinedione alter molecular and systemic biomarkers of inflammation and liver function in Holstein cows. <i>Journal of Animal Science and Biotechnology</i> , <b>2017</b> , 8, 64	6	2
212	Transcriptional changes in mesenteric and subcutaneous adipose tissue from Holstein cows in response to plane of dietary energy. <i>Journal of Animal Science and Biotechnology</i> , <b>2017</b> , 8, 85	6	8
211	Fertility and the transition dairy cow. <i>Reproduction, Fertility and Development</i> , <b>2017</b> , 30, 85-100	1.8	29
210	Grain challenge affects systemic and hepatic molecular biomarkers of inflammation, stress, and metabolic responses to a greater extent in Holstein than Jersey cows. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 9153-9162	4	12
209	Reticulo-rumen mass, epithelium gene expression, and systemic biomarkers of metabolism and inflammation in Holstein dairy cows fed a high-energy diet. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 9352-9360	4	10
208	Rumen Microbiome, Probiotics, and Fermentation Additives. <i>Veterinary Clinics of North America - Food Animal Practice</i> , <b>2017</b> , 33, 539-553	4.6	20



207	Placentome Nutrient Transporters and Mammalian Target of Rapamycin Signaling Proteins Are Altered by the Methionine Supply during Late Gestation in Dairy Cows and Are Associated with Newborn Birth Weight. <i>Journal of Nutrition</i> , <b>2017</b> , 147, 1640-1647	4.1	19
206	Prepartal Energy Intake Alters Blood Polymorphonuclear Leukocyte Transcriptome During the Peripartal Period in Holstein Cows. <i>Bioinformatics and Biology Insights</i> , <b>2017</b> , 11, 1177932217704667	5.3	13
205	Ethyl-cellulose rumen-protected methionine enhances performance during the periparturient period and early lactation in Holstein dairy cows. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 7455-7467	4	70
204	Application of nutrigenomics in small ruminants: Lactation, growth, and beyond. <i>Small Ruminant Research</i> , <b>2017</b> , 154, 29-44	1.7	4
203	Innate immune responses induced by lipopolysaccharide and lipoteichoic acid in primary goat mammary epithelial cells. <i>Journal of Animal Science and Biotechnology</i> , <b>2017</b> , 8, 29	6	23
202	MiR-145 Regulates Lipogenesis in Goat Mammary Cells Via Targeting INSIG1 and Epigenetic Regulation of Lipid-Related Genes. <i>Journal of Cellular Physiology</i> , <b>2017</b> , 232, 1030-1040	7	45
201	Peroxisome proliferator-activated receptor delta facilitates lipid secretion and catabolism of fatty acids in dairy goat mammary epithelial cells. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 797-806	4	19
200	Hepatic Activity and Transcription of Betaine-Homocysteine Methyltransferase, Methionine Synthase, and Cystathionine Synthase in Periparturient Dairy Cows Are Altered to Different Extents by Supply of Methionine and Choline. <i>Journal of Nutrition</i> , <b>2017</b> , 147, 11-19	4.1	32
199	The Omics Side of Fatty Liver: A Holistic Approach for a Commonly Occurring Peripartal Disease <b>2017</b> , 223-246		1
198	What Are Omics Sciences? <b>2017</b> , 1-7		16
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196	Effects of a 3 strain -based direct-fed microbial and dietary fiber concentration on growth performance and expression of genes related to absorption and metabolism of volatile fatty acids in weanling pigs. <i>Journal of Animal Science</i> , <b>2017</b> , 95, 308-319	0.7	15
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175	Circulating amino acids in blood plasma during the peripartal period in dairy cows with different liver functionality index. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 2257-2267	4	45
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166	Dietary impacts on rumen microbiota in beef and dairy production. <i>Animal Frontiers</i> , <b>2016</b> , 6, 22-29	5.5	34
165	Short communication: Altered expression of specificity protein 1 impairs milk fat synthesis in goat mammary epithelial cells. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 4893-4898	4	4
164	Secretion of glucagon-like peptide-2 responds to nutrient intake but not glucose provision in milk-fed calves. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 5793-5807	4	7
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155	Prepartal dietary energy level affects peripartal bovine blood neutrophil metabolic, antioxidant, and inflammatory gene expression. <i>Journal of Dairy Science</i> , <b>2015</b> , 98, 5492-505	4	24
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61	Adipose tissue depots of Holstein cows are immune responsive: inflammatory gene expression in vitro. <i>Domestic Animal Endocrinology</i> , <b>2010</b> , 38, 168-78	2.3	43
60	Effects of the peroxisome proliferator-activated receptor-alpha agonists clofibrate and fish oil on hepatic fatty acid metabolism in weaned dairy calves. <i>Journal of Dairy Science</i> , <b>2010</b> , 93, 2404-18	4	24
59	Selection and reliability of internal reference genes for quantitative PCR verification of transcriptomics during the differentiation process of porcine adult mesenchymal stem cells. <i>Stem Cell Research and Therapy</i> , <b>2010</b> , 1, 7	8.3	21
58	Yak ( <i>Bos grunniens</i> ) stomach lysozyme: molecular cloning, expression and its antibacterial activities. <i>Animal Biotechnology</i> , <b>2010</b> , 21, 25-35	1.4	4
57	High-starch diets induce precocious adipogenic gene network up-regulation in longissimus lumborum of early-weaned Angus cattle. <i>British Journal of Nutrition</i> , <b>2010</b> , 103, 953-63	3.6	36
56	Genomics of metabolic adaptations in the peripartal cow. <i>Animal</i> , <b>2010</b> , 4, 1110-39	3.1	88
55	Mammary gene expression profiles during an intramammary challenge reveal potential mechanisms linking negative energy balance with impaired immune response. <i>Physiological Genomics</i> , <b>2010</b> , 41, 161-70	3.6	33
54	Expression of metabolic, tissue remodeling, oxidative stress, and inflammatory pathways in mammary tissue during involution in lactating dairy cows. <i>Bioinformatics and Biology Insights</i> , <b>2010</b> , 4, 85-97	5.3	43
53	Greater expression of TLR2, TLR4, and IL6 due to negative energy balance is associated with lower expression of HLA-DRA and HLA-A in bovine blood neutrophils after intramammary mastitis challenge with <i>Streptococcus uberis</i> . <i>Functional and Integrative Genomics</i> , <b>2010</b> , 10, 53-61	3.8	54
52	Sustained upregulation of stearoyl-CoA desaturase in bovine mammary tissue with contrasting changes in milk fat synthesis and lipogenic gene networks caused by lipid supplements. <i>Functional and Integrative Genomics</i> , <b>2010</b> , 10, 561-75	3.8	42
51	t10,c12-18:2-induced milk fat depression is less pronounced in cows fed high-concentrate diets. <i>Lipids</i> , <b>2010</b> , 45, 877-87	1.6	11
50	Functional annotation of novel lineage-specific genes using co-expression and promoter analysis. <i>BMC Genomics</i> , <b>2010</b> , 11, 161	4.5	8
49	Functional and gene network analyses of transcriptional signatures characterizing pre-weaned bovine mammary parenchyma or fat pad uncovered novel inter-tissue signaling networks during development. <i>BMC Genomics</i> , <b>2010</b> , 11, 331	4.5	24
48	ASAS centennial paper: Lactation biology for the twenty-first century. <i>Journal of Animal Science</i> , <b>2009</b> , 87, 813-24	0.7	17
47	In vitro culture and characterization of a mammary epithelial cell line from Chinese Holstein dairy cow. <i>PLoS ONE</i> , <b>2009</b> , 4, e7636	3.7	60
46	Adipogenic and energy metabolism gene networks in longissimus lumborum during rapid post-weaning growth in Angus and Angus x Simmental cattle fed high-starch or low-starch diets. <i>BMC Genomics</i> , <b>2009</b> , 10, 142	4.5	89

45	Gene network and pathway analysis of bovine mammary tissue challenged with <i>Streptococcus uberis</i> reveals induction of cell proliferation and inhibition of PPARgamma signaling as potential mechanism for the negative relationships between immune response and lipid metabolism. <i>BMC Genomics</i> , <b>2009</b> , 10, 542	4.5	78
44	Identification of internal control genes for quantitative polymerase chain reaction in mammary tissue of lactating cows receiving lipid supplements. <i>Journal of Dairy Science</i> , <b>2009</b> , 92, 2007-19	4	75
43	Long-chain fatty acid effects on peroxisome proliferator-activated receptor-alpha-regulated genes in Madin-Darby bovine kidney cells: optimization of culture conditions using palmitate. <i>Journal of Dairy Science</i> , <b>2009</b> , 92, 2027-37	4	34
42	Peroxisome proliferator-activated receptor-gamma activation and long-chain fatty acids alter lipogenic gene networks in bovine mammary epithelial cells to various extents. <i>Journal of Dairy Science</i> , <b>2009</b> , 92, 4276-89	4	213
41	Adipose tissue lipogenic gene networks due to lipid feeding and milk fat depression in lactating cows. <i>Journal of Dairy Science</i> , <b>2009</b> , 92, 4290-300	4	38
40	Dietary-induced negative energy balance has minimal effects on innate immunity during a <i>Streptococcus uberis</i> mastitis challenge in dairy cows during midlactation. <i>Journal of Dairy Science</i> , <b>2009</b> , 92, 4301-16	4	70
39	Soybean oil and linseed oil supplementation affect profiles of ruminal microorganisms in dairy cows. <i>Animal</i> , <b>2009</b> , 3, 1562-9	3.1	94
38	Gene networks driving bovine milk fat synthesis during the lactation cycle. <i>BMC Genomics</i> , <b>2008</b> , 9, 366	4.5	499
37	Internal controls for quantitative polymerase chain reaction of swine mammary glands during pregnancy and lactation. <i>Journal of Dairy Science</i> , <b>2008</b> , 91, 3057-66	4	33
36	Gene expression ratio stability evaluation in prepubertal bovine mammary tissue from calves fed different milk replacers reveals novel internal controls for quantitative polymerase chain reaction. <i>Journal of Nutrition</i> , <b>2008</b> , 138, 1158-64	4.1	31
35	ACSL1, AGPAT6, FABP3, LPIN1, and SLC27A6 are the most abundant isoforms in bovine mammary tissue and their expression is affected by stage of lactation. <i>Journal of Nutrition</i> , <b>2008</b> , 138, 1019-24	4.1	157
34	Milk fatty acids: Mammary synthesis could limit transfer from duodenum in cows. <i>European Journal of Lipid Science and Technology</i> , <b>2007</b> , 109, 817-827	3	21
33	Transcriptome profiling of the small intestinal epithelium in germfree versus conventional piglets. <i>BMC Genomics</i> , <b>2007</b> , 8, 215	4.5	87
32	Identification of reference genes for quantitative real-time PCR in the bovine mammary gland during the lactation cycle. <i>Physiological Genomics</i> , <b>2007</b> , 29, 312-9	3.6	237
31	Nutrition-induced ketosis alters metabolic and signaling gene networks in liver of periparturient dairy cows. <i>Physiological Genomics</i> , <b>2007</b> , 32, 105-16	3.6	243
30	Housekeeping gene expression in bovine liver is affected by physiological state, feed intake, and dietary treatment. <i>Journal of Dairy Science</i> , <b>2007</b> , 90, 2246-52	4	101
29	LPIN1-, PPAR-, and SREBF-responsive gene networks regulate mammary lipid synthesis during diet-induced milk fat depression. <i>FASEB Journal</i> , <b>2007</b> , 21, A1106	0.9	2
28	Prepartum plane of dietary energy alters hepatic expression of inflammatory and fatty acid oxidation genes in dairy cows. <i>FASEB Journal</i> , <b>2007</b> , 21, A374	0.9	2

27	Plane of nutrition prepartum alters hepatic gene expression and function in dairy cows as assessed by longitudinal transcript and metabolic profiling. <i>Physiological Genomics</i> , <b>2006</b> , 27, 29-41	3.6	150
26	Accelerated expansion of group IID-like phospholipase A2 genes in <i>Bos taurus</i> . <i>Genomics</i> , <b>2006</b> , 87, 527-333	3.3	11
25	Relationship among trans and conjugated fatty acids and bovine milk fat yield due to dietary concentrate and linseed oil. <i>Journal of Dairy Science</i> , <b>2005</b> , 88, 726-40	4	223
24	High-concentrate diets and polyunsaturated oils alter trans and conjugated isomers in bovine rumen, blood, and milk. <i>Journal of Dairy Science</i> , <b>2005</b> , 88, 3986-99	4	96
23	Temporal gene expression profiling of liver from periparturient dairy cows reveals complex adaptive mechanisms in hepatic function. <i>Physiological Genomics</i> , <b>2005</b> , 23, 217-26	3.6	173
22	A 7872 cDNA microarray and its use in bovine functional genomics. <i>Veterinary Immunology and Immunopathology</i> , <b>2005</b> , 105, 235-45	2	49
21	Effects of ruminal or duodenal supply of fish oil on milk fat secretion and profiles of trans-fatty acids and conjugated linoleic acid isomers in dairy cows fed maize silage. <i>Animal Feed Science and Technology</i> , <b>2005</b> , 119, 227-246	3	77
20	Intestinal flow and digestibility of trans fatty acids and conjugated linoleic acids (CLA) in dairy cows fed a high-concentrate diet supplemented with fish oil, linseed oil, or sunflower oil. <i>Animal Feed Science and Technology</i> , <b>2005</b> , 119, 203-225	3	82
19	Physiological and pathological adaptations in dairy cows that may increase susceptibility to periparturient diseases and disorders. <i>Italian Journal of Animal Science</i> , <b>2005</b> , 4, 323-344	2.2	168
18	Identification of a missense mutation in the bovine ABCG2 gene with a major effect on the QTL on chromosome 6 affecting milk yield and composition in Holstein cattle. <i>Genome Research</i> , <b>2005</b> , 15, 936-44	0.7	273
17	Trans10,cis12-18:2 is a more potent inhibitor of de novo fatty acid synthesis and desaturation than cis9,trans11-18:2 in the mammary gland of lactating mice. <i>Journal of Nutrition</i> , <b>2004</b> , 134, 1362-8	4.1	45
16	Short communication: Diurnal profiles of conjugated linoleic acids and trans fatty acids in ruminal fluid from cows fed a high concentrate diet supplemented with fish oil, linseed oil, or sunflower oil. <i>Journal of Dairy Science</i> , <b>2004</b> , 87, 2468-71	4	26
15	Biohydrogenation, duodenal flow, and intestinal digestibility of trans fatty acids and conjugated linoleic acids in response to dietary forage:concentrate ratio and linseed oil in dairy cows. <i>Journal of Dairy Science</i> , <b>2004</b> , 87, 2472-85	4	209
14	Effects of dietary cis 9, trans 11-18:2, trans 10, cis 12-18:2, or vaccenic acid (trans 11-18:1) during lactation on body composition, tissue fatty acid profiles, and litter growth in mice. <i>British Journal of Nutrition</i> , <b>2003</b> , 90, 1039-48	3.6	35
13	Biohydrogenation of unsaturated fatty acids in continuous culture fermenters during digestion of orchardgrass or red clover with three levels of ground corn supplementation. <i>Journal of Animal Science</i> , <b>2003</b> , 81, 1611-27	0.7	49
12	Dietary canola or soybean oil with two levels of conjugated linoleic acids (CLA) alter profiles of 18:1 and 18:2 isomers in blood plasma and milk fat from dairy cows. <i>Animal Feed Science and Technology</i> , <b>2003</b> , 103, 63-83	3	21
11	Grazing allowance after the morning or afternoon milking for lactating cows fed a total mixed ration (TMR) enhances trans11-18:1 and cis9,trans11-18:2 (rumenic acid) in milk fat to different extents. <i>Animal Feed Science and Technology</i> , <b>2003</b> , 109, 105-119	3	34
10	Reduced fatty acid synthesis and desaturation due to exogenous trans10,cis12-CLA in cows fed oleic or linoleic oil. <i>Journal of Dairy Science</i> , <b>2003</b> , 86, 1354-69	4	90

9	Effect of linseed oil supplementation on ruminal digestion in dairy cows fed diets with different forage:concentrate ratios. <i>Journal of Dairy Science</i> , <b>2003</b> , 86, 3999-4007	4	112
8	Trans and conjugated fatty acids in milk from cows and goats consuming pasture or receiving vegetable oils or seeds. <i>Italian Journal of Animal Science</i> , <b>2002</b> , 1, 243-254	2.2	28
7	Dietary trans-vaccenic acid (trans11-18:1) increases concentration of cis9,trans11-conjugated linoleic acid (rumenic acid) in tissues of lactating mice and suckling pups. <i>Reproduction, Nutrition, Development</i> , <b>2002</b> , 42, 85-99		25
6	Distribution of trans-vaccenic acid and cis9, trans11-conjugated linoleic acid (rumenic acid) in blood plasma lipid fractions and secretion in milk fat of Jersey cows fed canola or soybean oil. <i>Animal Research</i> , <b>2002</b> , 51, 119-134		23
5	Characterization of 18:1 and 18:2 isomers produced during microbial biohydrogenation of unsaturated fatty acids from canola and soya bean oil in the rumen of lactating cows. <i>Journal of Animal Physiology and Animal Nutrition</i> , <b>2002</b> , 86, 422-32	2.6	49
4	Trans18:1 and 18:2 isomers in blood plasma and milk fat of grazing cows fed a grain supplement containing solvent-extracted or mechanically extracted soybean meal. <i>Journal of Dairy Science</i> , <b>2002</b> , 85, 1197-207	4	47
3	Nutrient digestion, biohydrogenation, and fatty acid profiles in blood plasma and milk fat from lactating Holstein cows fed canola oil or canolamide. <i>Animal Feed Science and Technology</i> , <b>2002</b> , 97, 65-82		55
2	Alterations in blood plasma and milk fatty acid profiles of lactating Holstein cows in response to ruminal infusion of a conjugated linoleic acid mixture. <i>Animal Research</i> , <b>2001</b> , 50, 463-476		26
1	Exogenous conjugated linoleic acid isomers reduce bovine milk fat concentration and yield by inhibiting de novo fatty acid synthesis. <i>Journal of Nutrition</i> , <b>1998</b> , 128, 2411-9	4.1	91