

# Juan J Loor

## List of Publications by Citations

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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	Gene networks driving bovine milk fat synthesis during the lactation cycle. <i>BMC Genomics</i> , <b>2008</b> , 9, 366	4.5	499
439	Regulation of energy metabolism by long-chain fatty acids. <i>Progress in Lipid Research</i> , <b>2014</b> , 53, 124-44	14.3	369
438	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	9.7	273
437	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
436	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
435	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
434	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
433	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
432	Gene networks driving bovine mammary protein synthesis during the lactation cycle. <i>Bioinformatics and Biology Insights</i> , <b>2011</b> , 5, 83-98	5.3	193
431	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
430	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
429	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
428	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
427	Supplemental Smartamine M or MetaSmart during the transition period benefits postpartal cow performance and blood neutrophil function. <i>Journal of Dairy Science</i> , <b>2013</b> , 96, 6248-63	4	121
426	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
425	Functional Role of PPARs in Ruminants: Potential Targets for Fine-Tuning Metabolism during Growth and Lactation. <i>PPAR Research</i> , <b>2013</b> , 2013, 684159	4.3	107
424	High-throughput Methods Redefine the Rumen Microbiome and Its Relationship with Nutrition and Metabolism. <i>Bioinformatics and Biology Insights</i> , <b>2014</b> , 8, 109-25	5.3	105

423	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
422	Biomarkers of inflammation, metabolism, and oxidative stress in blood, liver, and milk reveal a better immunometabolic status in peripartal cows supplemented with Smartamine M or MetaSmart. <i>Journal of Dairy Science</i> , <b>2014</b> , 97, 7437-50	4	100
421	Systems physiology in dairy cattle: nutritional genomics and beyond. <i>Annual Review of Animal Biosciences</i> , <b>2013</b> , 1, 365-92	13.7	96
420	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
419	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
418	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
417	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
416	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
415	Old and new stories: revelations from functional analysis of the bovine mammary transcriptome during the lactation cycle. <i>PLoS ONE</i> , <b>2012</b> , 7, e33268	3.7	88
414	Genomics of metabolic adaptations in the peripartal cow. <i>Animal</i> , <b>2010</b> , 4, 1110-39	3.1	88
413	Transcriptome profiling of the small intestinal epithelium in germfree versus conventional piglets. <i>BMC Genomics</i> , <b>2007</b> , 8, 215	4.5	87
412	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
411	Better postpartal performance in dairy cows supplemented with rumen-protected methionine compared with choline during the peripartal period. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 8716-8732	4	81
410	MicroRNA expression patterns in the bovine mammary gland are affected by stage of lactation. <i>Journal of Dairy Science</i> , <b>2012</b> , 95, 6529-35	4	80
409	Nutritional management of the transition cow in the 21st century is a paradigm shift in thinking. <i>Animal Production Science</i> , <b>2013</b> , 53, 1000	1.4	79
408	Blood immunometabolic indices and polymorphonuclear neutrophil function in peripartum dairy cows are altered by level of dietary energy prepartum. <i>Journal of Dairy Science</i> , <b>2012</b> , 95, 1749-58	4	79
407	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
406	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

405	Gene network and pathway analysis of bovine mammary tissue challenged with <i>Streptococcus uberis</i> reveals induction of cell proliferation and inhibition of PPAR $\gamma$ 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
404	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
403	Induction of Subacute Ruminal Acidosis Affects the Ruminal Microbiome and Epithelium. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 701	5.7	77
402	Overfeeding a moderate energy diet prepartum does not impair bovine subcutaneous adipose tissue insulin signal transduction and induces marked changes in peripartal gene network expression. <i>Journal of Dairy Science</i> , <b>2012</b> , 95, 4333-51	4	76
401	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
400	Liver lipid content and inflammometabolic indices in peripartal dairy cows are altered in response to prepartal energy intake and postpartal intramammary inflammatory challenge. <i>Journal of Dairy Science</i> , <b>2013</b> , 96, 918-35	4	74
399	Rumen-protected methionine compared with rumen-protected choline improves immunometabolic status in dairy cows during the peripartal period. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 8956-8969	4	72
398	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
397	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
396	A novel dynamic impact approach (DIA) for functional analysis of time-course omics studies: validation using the bovine mammary transcriptome. <i>PLoS ONE</i> , <b>2012</b> , 7, e32455	3.7	69
395	Role of metabolic and cellular proliferation genes in ruminal development in response to enhanced plane of nutrition in neonatal Holstein calves. <i>Journal of Dairy Science</i> , <b>2012</b> , 95, 1807-20	4	67
394	Body condition score at calving affects systemic and hepatic transcriptome indicators of inflammation and nutrient metabolism in grazing dairy cows. <i>Journal of Dairy Science</i> , <b>2015</b> , 98, 1019-32	4	65
393	Fine metabolic regulation in ruminants via nutrient-gene interactions: saturated long-chain fatty acids increase expression of genes involved in lipid metabolism and immune response partly through PPAR $\alpha$ activation. <i>British Journal of Nutrition</i> , <b>2012</b> , 107, 179-91	3.6	63
392	Milk fat depression induced by dietary marine algae in dairy ewes: persistency of milk fatty acid composition and animal performance responses. <i>Journal of Dairy Science</i> , <b>2013</b> , 96, 524-32	4	61
391	Bioinformatics analysis of microRNA and putative target genes in bovine mammary tissue infected with <i>Streptococcus uberis</i> . <i>Journal of Dairy Science</i> , <b>2012</b> , 95, 6397-408	4	60
390	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
389	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
388	Effects of precalving body condition score and prepartum feeding level on production, reproduction, and health parameters in pasture-based transition dairy cows. <i>Journal of Dairy Science</i> , <b>2015</b> , 98, 7164-82	4	57

387	Review: Enhancing gastrointestinal health in dairy cows. <i>Animal</i> , <b>2018</b> , 12, s399-s418	3.1	56
386	Maternal consumption of organic trace minerals alters calf systemic and neutrophil mRNA and microRNA indicators of inflammation and oxidative stress. <i>Journal of Dairy Science</i> , <b>2015</b> , 98, 7717-29	4	55
385	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	2	55
384	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
383	Calving body condition score affects indicators of health in grazing dairy cows. <i>Journal of Dairy Science</i> , <b>2013</b> , 96, 5811-25	4	53
382	Smartamine M and MetaSmart supplementation during the peripartal period alter hepatic expression of gene networks in 1-carbon metabolism, inflammation, oxidative stress, and the growth hormone-insulin-like growth factor 1 axis pathways. <i>Journal of Dairy Science</i> , <b>2014</b> , 97, 7451-64	4	51
381	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	7.1016	50
380	Change in subcutaneous adipose tissue metabolism and gene network expression during the transition period in dairy cows, including differences due to sire genetic merit. <i>Journal of Dairy Science</i> , <b>2013</b> , 96, 2171-2182	4	50
379	Peroxisome proliferator-activated receptor- $\beta$ stimulates the synthesis of monounsaturated fatty acids in dairy goat mammary epithelial cells via the control of stearyl-coenzyme A desaturase. <i>Journal of Dairy Science</i> , <b>2013</b> , 96, 7844-53	4	49
378	Assessing and managing body condition score for the prevention of metabolic disease in dairy cows. <i>Veterinary Clinics of North America - Food Animal Practice</i> , <b>2013</b> , 29, 323-36	4.6	49
377	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
376	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
375	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
374	Abundance of ruminal bacteria, epithelial gene expression, and systemic biomarkers of metabolism and inflammation are altered during the peripartal period in dairy cows. <i>Journal of Dairy Science</i> , <b>2015</b> , 98, 8940-51	4	48
373	Visceral adipose tissue mass in nonlactating dairy cows fed diets differing in energy density(1). <i>Journal of Dairy Science</i> , <b>2014</b> , 97, 3420-30	4	48
372	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
371	Maternal rumen-protected methionine supplementation and its effect on blood and liver biomarkers of energy metabolism, inflammation, and oxidative stress in neonatal Holstein calves. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 6753-6763	4	47
370	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

369	RNA-Seq reveals 10 novel promising candidate genes affecting milk protein concentration in the Chinese Holstein population. <i>Scientific Reports</i> , <b>2016</b> , 6, 26813	4.9	45
368	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
367	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
366	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
365	Functional welfare Using biochemical and molecular technologies to understand better the welfare state of peripartal dairy cattle. <i>Animal Production Science</i> , <b>2013</b> , 53, 931	1.4	44
364	iTRAQ-proteomics and bioinformatics analyses of mammary tissue from cows with clinical mastitis due to natural infection with <i>Staphylococci aureus</i> . <i>BMC Genomics</i> , <b>2014</b> , 15, 839	4.5	44
363	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
362	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
361	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
360	Ratio of lysine to methionine alters expression of genes involved in milk protein transcription and translation and mTOR phosphorylation in bovine mammary cells. <i>Physiological Genomics</i> , <b>2014</b> , 46, 268-75 <sup>6</sup>	3.6	41
359	Functional adaptations of the transcriptome to mastitis-causing pathogens: the mammary gland and beyond. <i>Journal of Mammary Gland Biology and Neoplasia</i> , <b>2011</b> , 16, 305-22	2.4	41
358	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
357	TRIENNIAL LACTATION SYMPOSIUM: Nutrigenomics in dairy cows: Nutrients, transcription factors, and techniques. <i>Journal of Animal Science</i> , <b>2015</b> , 93, 5531-53	0.7	40
356	Genes regulating lipid and protein metabolism are highly expressed in mammary gland of lactating dairy goats. <i>Functional and Integrative Genomics</i> , <b>2015</b> , 15, 309-21	3.8	39
355	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
354	Inflammation- and lipid metabolism-related gene network expression in visceral and subcutaneous adipose depots of Holstein cows. <i>Journal of Dairy Science</i> , <b>2014</b> , 97, 3441-8	4	37
353	Dietary lipid during the transition period to manipulate subcutaneous adipose tissue peroxisome proliferator-activated receptor- $\alpha$ -regulator and target gene expression. <i>Journal of Dairy Science</i> , <b>2011</b> , 94, 5913-25	4	37
352	Methionine and Choline Supply during the Periparturient Period Alter Plasma Amino Acid and One-Carbon Metabolism Profiles to Various Extents: Potential Role in Hepatic Metabolism and Antioxidant Status. <i>Nutrients</i> , <b>2016</b> , 9,	6.7	36



351	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
350	Gut response induced by weaning in piglet features marked changes in immune and inflammatory response. <i>Functional and Integrative Genomics</i> , <b>2014</b> , 14, 657-71	3.8	36
349	Hepatic Metabolic, Inflammatory, and Stress-Related Gene Expression in Growing Mice Consuming a Low Dose of Trans-10, cis-12-Conjugated Linoleic Acid. <i>Journal of Lipids</i> , <b>2012</b> , 2012, 571281	2.7	36
348	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
347	Glucose transporter and hypoxia-associated gene expression in the mammary gland of transition dairy cattle. <i>Journal of Dairy Science</i> , <b>2011</b> , 94, 2912-22	4	35
346	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
345	Effects of Arginine concentration on the in vitro expression of Casein and mTOR pathway related genes in mammary epithelial cells from dairy cattle. <i>PLoS ONE</i> , <b>2014</b> , 9, e95985	3.7	35
344	MicroRNA-26a/b and their host genes synergistically regulate triacylglycerol synthesis by targeting the INSIG1 gene. <i>RNA Biology</i> , <b>2016</b> , 13, 500-10	4.8	34
343	MicroRNA Bta-miR-181a regulates the biosynthesis of bovine milk fat by targeting ACSL1. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 3916-3924	4	34
342	Application of Top-Down and Bottom-up Systems Approaches in Ruminant Physiology and Metabolism. <i>Current Genomics</i> , <b>2012</b> , 13, 379-94	2.6	34
341	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
340	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
339	Dietary impacts on rumen microbiota in beef and dairy production. <i>Animal Frontiers</i> , <b>2016</b> , 6, 22-29	5.5	34
338	Parturition in dairy cows temporarily alters the expression of genes in circulating neutrophils. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 6470-6483	4	34
337	Body condition score and plane of nutrition prepartum affect adipose tissue transcriptome regulators of metabolism and inflammation in grazing dairy cows during the transition period. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 758-70	4	33
336	Short communication: Endoplasmic reticulum stress gene network expression in bovine mammary tissue during the lactation cycle. <i>Journal of Dairy Science</i> , <b>2012</b> , 95, 2562-6	4	33
335	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
334	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

333	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
332	Effect of the level of maternal energy intake prepartum on immunometabolic markers, polymorphonuclear leukocyte function, and neutrophil gene network expression in neonatal Holstein heifer calves. <i>Journal of Dairy Science</i> , <b>2013</b> , 96, 3573-87	4	32
331	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
330	Overfeeding energy upregulates peroxisome proliferator-activated receptor (PPAR) $\alpha$ -controlled adipogenic and lipolytic gene networks but does not affect proinflammatory markers in visceral and subcutaneous adipose depots of Holstein cows. <i>Journal of Dairy Science</i> , <b>2014</b> , 97, 3431-40	4	32
329	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
328	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
327	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
326	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
325	Integrative analyses of hepatic differentially expressed genes and blood biomarkers during the peripartal period between dairy cows overfed or restricted-fed energy prepartum. <i>PLoS ONE</i> , <b>2014</b> , 9, e99757	3.7	31
324	Requirement for digestible calcium by eleven- to twenty-five-kilogram pigs as determined by growth performance, bone ash concentration, calcium and phosphorus balances, and expression of genes involved in transport of calcium in intestinal and kidney cells. <i>Journal of Animal Science</i> , <b>2016</b> , 94, 3321-3334	0.7	31
323	Linking Peripartal Dynamics of Ruminal Microbiota to Dietary Changes and Production Parameters. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 2143	5.7	30
322	Hepatic global DNA and peroxisome proliferator-activated receptor alpha promoter methylation are altered in peripartal dairy cows fed rumen-protected methionine. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 234-44	4	29
321	Fertility and the transition dairy cow. <i>Reproduction, Fertility and Development</i> , <b>2017</b> , 30, 85-100	1.8	29
320	Grazing dairy cows had decreased interferon- $\gamma$ tumor necrosis factor, and interleukin-17, and increased expression of interleukin-10 during the first week after calving. <i>Journal of Dairy Science</i> , <b>2015</b> , 98, 937-46	4	28
319	Postpartal immunometabolic gene network expression and function in blood neutrophils are altered in response to prepartal energy intake and postpartal intramammary inflammatory challenge. <i>Journal of Dairy Science</i> , <b>2014</b> , 97, 2165-77	4	28
318	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
317	Feed restriction, but not l-carnitine infusion, alters the liver transcriptome by inhibiting sterol synthesis and mitochondrial oxidative phosphorylation and increasing gluconeogenesis in mid-lactation dairy cows. <i>Journal of Dairy Science</i> , <b>2013</b> , 96, 2201-2213	4	27
316	Central Role of the PPAR $\alpha$ Gene Network in Coordinating Beef Cattle Intramuscular Adipogenesis in Response to Weaning Age and Nutrition. <i>Gene Regulation and Systems Biology</i> , <b>2014</b> , 8, 17-32	2	27



315	miR-30e-5p and miR-15a Synergistically Regulate Fatty Acid Metabolism in Goat Mammary Epithelial Cells via LRP6 and YAP1. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	27
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313	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
312	Essential amino acid ratios and mTOR affect lipogenic gene networks and miRNA expression in bovine mammary epithelial cells. <i>Journal of Animal Science and Biotechnology</i> , <b>2016</b> , 7, 44	6	26
311	Peroxisome proliferator-activated receptor $\alpha$ and $\beta$ isoforms alter lipogenic gene networks in goat mammary epithelial cells to different extents. <i>Journal of Dairy Science</i> , <b>2014</b> , 97, 5437-47	4	26
310	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
309	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
308	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
307	Adipose and liver gene expression profiles in response to treatment with a nonsteroidal antiinflammatory drug after calving in grazing dairy cows. <i>Journal of Dairy Science</i> , <b>2015</b> , 98, 3079-85	4	25
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305	Ruminant metabolic systems biology: reconstruction and integration of transcriptome dynamics underlying functional responses of tissues to nutrition and physiological state. <i>Gene Regulation and Systems Biology</i> , <b>2012</b> , 6, 109-25	2	25
304	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
303	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
302	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
301	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
300	Effect of dietary starch level and high rumen-undegradable protein on endocrine-metabolic status, milk yield, and milk composition in dairy cows during early and late lactation. <i>Journal of Dairy Science</i> , <b>2014</b> , 97, 7788-803	4	24
299	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
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297	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
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295	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
294	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
293	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
292	TRIENNIAL LACTATION SYMPOSIUM: Nutrigenomics in livestock: Systems biology meets nutrition. <i>Journal of Animal Science</i> , <b>2015</b> , 93, 5554-74	0.7	23
291	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
290	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
289	Supplementing Zn, Mn, and Cu from amino acid complexes and Co from cobalt glucoheptonate during the peripartal period benefits postpartal cow performance and blood neutrophil function. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 1868-1883	4	22
288	Linoleic and linolenic fatty acid consumption over three generations exert cumulative regulation of hepatic expression of genes related to lipid metabolism. <i>Genes and Nutrition</i> , <b>2014</b> , 9, 405	4.3	22
287	Treatment with a nonsteroidal antiinflammatory drug after calving did not improve milk production, health, or reproduction parameters in pasture-grazed dairy cows. <i>Journal of Dairy Science</i> , <b>2014</b> , 97, 2932-43	4	22
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278	Short communication: Proteins from circulating exosomes represent metabolic state in transition dairy cows. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 7661-7668	4	20
277	Thyroid hormone responsive (THRSP) promotes the synthesis of medium-chain fatty acids in goat mammary epithelial cells. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 3124-3133	4	20
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275	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
274	Effects of feeding roasted safflower seeds (variety IL-111) and fish oil on dry matter intake, performance and milk fatty acid profiles in dairy cattle. <i>Journal of Animal Physiology and Animal Nutrition</i> , <b>2012</b> , 96, 466-73	2.6	20
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271	Ruminal epithelium transcriptome dynamics in response to plane of nutrition and age in young Holstein calves. <i>Functional and Integrative Genomics</i> , <b>2014</b> , 14, 261-73	3.8	20
270	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
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260	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
259	Maternal supply of methionine during late-pregnancy enhances rate of Holstein calf development in utero and postnatal growth to a greater extent than colostrum source. <i>Journal of Animal Science and Biotechnology</i> , <b>2018</b> , 9, 83	6	19
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257	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
256	Maternal Plane of Nutrition during Late Gestation and Weaning Age Alter Angus Simmental Offspring Longissimus Muscle Transcriptome and Intramuscular Fat. <i>PLoS ONE</i> , <b>2015</b> , 10, e0131478	3.7	18
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253	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
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248	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
247	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
246	Dietary marine algae and its influence on tissue gene network expression during milk fat depression in dairy ewes. <i>Animal Feed Science and Technology</i> , <b>2013</b> , 186, 36-44	3	17
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242	The effect of calving in the summer on the hepatic transcriptome of Holstein cows during the periparturient period. <i>Journal of Dairy Science</i> , <b>2015</b> , 98, 5401-13	4	16
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234	What Are Omics Sciences? <b>2017</b> , 1-7		16
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231	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
230	Stress and inflammatory gene networks in bovine liver are altered by plane of dietary energy during late pregnancy. <i>Functional and Integrative Genomics</i> , <b>2015</b> , 15, 563-76	3.8	15
229	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
228	Periparturient rumen-protected methionine supplementation to higher energy diets elicits positive effects on blood neutrophil gene networks, performance and liver lipid content in dairy cows. <i>Journal of Animal Science and Biotechnology</i> , <b>2016</b> , 7, 18	6	15
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219	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
218	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
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216	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
215	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
214	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
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211	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
210	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
209	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
208	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



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204	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
203	Postpartal subclinical endometritis alters transcriptome profiles in liver and adipose tissue of dairy cows. <i>Bioinformatics and Biology Insights</i> , <b>2014</b> , 8, 45-63	5.3	12
202	Hepatic purinergic signaling gene network expression and its relationship with inflammation and oxidative stress biomarkers in blood from peripartal dairy cattle. <i>Journal of Dairy Science</i> , <b>2014</b> , 97, 861-73	4	12
201	Bioinformatics analysis of transcriptome dynamics during growth in angus cattle longissimus muscle. <i>Bioinformatics and Biology Insights</i> , <b>2013</b> , 7, 253-70	5.3	12
200	Trans-10, cis 12-Conjugated Linoleic Acid-Induced Milk Fat Depression Is Associated with Inhibition of PPAR $\beta$ Signaling and Inflammation in Murine Mammary Tissue. <i>Journal of Lipids</i> , <b>2013</b> , 2013, 890343	2.7	12
199	Bioinformatics and Gene Network Analyses of the Swine Mammary Gland Transcriptome during Late Gestation. <i>Bioinformatics and Biology Insights</i> , <b>2013</b> , 7, 193-216	5.3	12
198	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
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196	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
195	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
194	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
193	Prepartum feeding level and body condition score affect immunological performance in grazing dairy cows during the transition period. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 2329-2338	4	11
192	Rumen-protected methionine during the peripartal 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
191	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
190	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

189	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
188	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
187	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
186	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
185	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
184	Effect of short-chain fatty acids on triacylglycerol accumulation, lipid droplet formation and lipogenic gene expression in goat mammary epithelial cells. <i>Animal Science Journal</i> , <b>2016</b> , 87, 242-9	1.8	10
183	Choline supply during negative nutrient balance alters hepatic cystathionine $\beta$ -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
182	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
181	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
180	Lipoprotein lipase, tissue expression and effects on genes related to fatty acid synthesis in goat mammary epithelial cells. <i>International Journal of Molecular Sciences</i> , <b>2014</b> , 15, 22757-71	6.3	10
179	Corium tissue expression of genes associated with inflammation, oxidative stress, and keratin formation in relation to lameness in dairy cows. <i>Journal of Dairy Science</i> , <b>2012</b> , 95, 6388-96	4	10
178	Dietary Lipid During Late-Pregnancy and Early-Lactation to Manipulate Metabolic and Inflammatory Gene Network Expression in Dairy Cattle Liver with a Focus on PPARs. <i>Gene Regulation and Systems Biology</i> , <b>2013</b> , 7, 103-23	2	10
177	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
176	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
175	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
174	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
173	Transcriptome profiles of whole blood in Italian Holstein and Italian Simmental lactating cows diverging for genetic merit for milk protein. <i>Journal of Dairy Science</i> , <b>2015</b> , 98, 6119-27	4	9
172	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

171	Prepartum body condition score and plane of nutrition affect the hepatic transcriptome during the transition period in grazing dairy cows. <i>BMC Genomics</i> , <b>2016</b> , 17, 854	4.5	9
170	Characterization of the liver X receptor-dependent regulatory mechanism of goat stearoyl-coenzyme A desaturase 1 gene by linoleic acid. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 3945-3957	4	9
169	Cattle genomics and its implications for future nutritional strategies for dairy cattle. <i>Animal</i> , <b>2013</b> , 7 Suppl 1, 172-83	3.1	9
168	Predisposition of cows to mastitis in non-infected mammary glands: effects of dietary-induced negative energy balance during mid-lactation on immune-related genes. <i>Functional and Integrative Genomics</i> , <b>2011</b> , 11, 151-6	3.8	9
167	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
166	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
165	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
164	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
163	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
162	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
161	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
160	Expression of NGF, BDNF and their receptors in subcutaneous adipose tissue of lactating cows. <i>Research in Veterinary Science</i> , <b>2015</b> , 102, 196-9	2.5	8
159	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
158	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
157	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
156	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
155	Digital Cushion Fatty Acid Composition and Lipid Metabolism Gene Network Expression in Holstein Dairy Cows Fed a High-Energy Diet. <i>PLoS ONE</i> , <b>2016</b> , 11, e0159536	3.7	8
154	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

153	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
152	Hepatic metabolomics and transcriptomics to study susceptibility to ketosis in response to prepartal nutritional management. <i>Journal of Animal Science and Biotechnology</i> , <b>2019</b> , 10, 96	6	8
151	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
150	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
149	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
148	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
147	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
146	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 peripartal Holstein cows. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 5530-5541	4	7
145	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
144	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
143	Corium molecular biomarkers reveal a beneficial effect on hoof transcriptomics in peripartal dairy cows supplemented with zinc, manganese, and copper from amino acid complexes and cobalt from cobalt glucoheptonate. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 9974-9982	4	7
142	Effect of dietary vegetable oils on the fatty acid profile of plasma lipoproteins in dairy cows. <i>Archives of Animal Nutrition</i> , <b>2016</b> , 70, 322-32	2.7	7
141	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
140	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
139	Endocannabinoid system and proopiomelanocortin gene expression in peripartal bovine liver in response to prepartal plane of nutrition. <i>Journal of Animal Physiology and Animal Nutrition</i> , <b>2012</b> , 96, 907-19	2.6	7
138	Duodenal infusion of linolenic acid affects fatty acid metabolism in the mammary gland of lactating dairy cows. <i>Journal of Dairy Science</i> , <b>2012</b> , 95, 5821-30	4	7
137	Physiological and Nutritional Roles of PPAR across Species. <i>PPAR Research</i> , <b>2013</b> , 2013, 807156	4.3	7
136	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

135	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
134	regulates fatty acid synthesis LATS2 in bovine mammary epithelial cells. <i>Food and Function</i> , <b>2020</b> , 11, 8625-8636	6.1	7
133	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
132	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
131	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
130	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
129	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
128	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
127	Systems Biology and Animal Nutrition: Insights from the Dairy Cow during Growth and the Lactation Cycle <b>2011</b> , 215-245		6
126	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
125	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
124	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
123	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
122	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
121	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
120	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
119	Nuclear receptor subfamily 1 group H member 2 (LXRB) is the predominant liver X receptor subtype regulating transcription of 2 major lipogenic genes in goat primary mammary epithelial cells. <i>Journal of Dairy Science</i> , <b>2017</b> , 100, 6743-6752	4	5
118	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



117	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
116	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
115	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
114	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
113	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
112	Managing the grazing dairy cow through the transition period: a review. <i>Animal Production Science</i> , <b>2015</b> , 55, 936	1.4	5
111	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
110	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
109	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
108	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
107	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
106	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
105	Supplemental Smartamine M in higher-energy diets during the preparturient 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
104	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
103	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
102	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
101	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
100	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



99	-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
98	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
97	Application of nutrigenomics in small ruminants: Lactation, growth, and beyond. <i>Small Ruminant Research</i> , <b>2017</b> , 154, 29-44	1.7	4
96	Yin yang 1 and adipogenic gene network expression in longissimus muscle of beef cattle in response to nutritional management. <i>Gene Regulation and Systems Biology</i> , <b>2013</b> , 7, 71-83	2	4
95	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
94	Negative regulation of $\beta$ -casein (CSN1S1) improves $\beta$ -casein content and reduces allergy potential in goat milk. <i>Journal of Dairy Science</i> , <b>2020</b> , 103, 9561-9572	4	4
93	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
92	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
91	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
90	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
89	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
88	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
87	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
86	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
85	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
84	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
83	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
82	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

81	Erratum to Supplemental Smartamine M or MetaSmart during the transition period benefits postpartal cow performance and blood neutrophil function (J. Dairy Sci. 96:6248-6263). <i>Journal of Dairy Science</i> , <b>2013</b> , 96, 8093	4	3
80	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
79	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
78	Dietary $\alpha$ -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
77	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 <sup>4</sup>		3
76	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
75	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
74	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
73	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
72	All-trans retinoic acid controls differentiation, proliferation, and lipolysis in isolated subcutaneous adipocytes from peripartal Holstein cows. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 4999-5008	4	3
71	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
70	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
69	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 <sup>4</sup>		3
68	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
67	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
66	The preliminary study on the effects of growth hormone and insulin-like growth factor-I on $\beta$ -casein synthesis in bovine mammary epithelial cells in vitro. <i>Journal of Animal Physiology and Animal Nutrition</i> , <b>2016</b> , 100, 251-5	2.6	2
65	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
64	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

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59	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
58	Nutritional Systems Biology to Elucidate Adaptations in Lactation Physiology of Dairy Cows <b>2016</b> , 97-125		2
57	Rapid Communication: Period2 gene silencing increases the synthesis of $\kappa$ -casein protein in bovine mammary epithelial cells. <i>Journal of Animal Science</i> , <b>2017</b> , 95, 4510-4513	0.7	2
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54	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
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49	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
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44	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
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41	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
40	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-s395	2.1	1
39	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
38	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
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36	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
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30	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
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