

# Massimo Bionaz

## 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.

103  
papers

4,354  
citations

31  
h-index

65  
g-index

134  
ext. papers

5,222  
ext. citations

2.8  
avg. IF

5.86  
L-index

#	Paper	IF	Citations
103	Gene networks driving bovine milk fat synthesis during the lactation cycle. <i>BMC Genomics</i> , <b>2008</b> , 9, 366	4.5	499
102	Effects of inflammatory conditions on liver activity in puerperium period and consequences for performance in dairy cows. <i>Journal of Dairy Science</i> , <b>2008</b> , 91, 3300-10	4	273
101	Plasma paraoxonase, health, inflammatory conditions, and liver function in transition dairy cows. <i>Journal of Dairy Science</i> , <b>2007</b> , 90, 1740-50	4	272
100	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
99	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
98	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
97	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
96	Diets during far-off and close-up dry periods affect periparturient metabolism and lactation in multiparous cows. <i>Journal of Dairy Science</i> , <b>2006</b> , 89, 3563-77	4	170
95	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
94	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
93	Biosynthesis of milk fat, protein, and lactose: roles of transcriptional and posttranscriptional regulation. <i>Physiological Genomics</i> , <b>2016</b> , 48, 231-56	3.6	99
92	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
91	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
90	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
89	Overexpression of SREBP1 (sterol regulatory element binding protein 1) promotes de novo fatty acid synthesis and triacylglycerol accumulation in goat mammary epithelial cells. <i>Journal of Dairy Science</i> , <b>2016</b> , 99, 783-95	4	87
88	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
87	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

86	Natural Products Sulforaphane and Brusatol Modulate NRF2 in Bovine Mammary Cells. <i>Current Developments in Nutrition</i> , <b>2020</b> , 4, 397-397	0.4	78
85	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
84	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
83	Strategies for regeneration of the bone using porcine adult adipose-derived mesenchymal stem cells. <i>Theriogenology</i> , <b>2011</b> , 75, 1381-99	2.8	64
82	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
81	Transcriptomics comparison between porcine adipose and bone marrow mesenchymal stem cells during in vitro osteogenic and adipogenic differentiation. <i>PLoS ONE</i> , <b>2012</b> , 7, e32481	3.7	61
80	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
79	Adipose-derived mesenchymal stem cells enhance healing of mandibular defects in the ramus of swine. <i>Journal of Oral and Maxillofacial Surgery</i> , <b>2012</b> , 70, e193-203	1.8	42
78	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
77	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
76	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
75	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
74	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
73	Transcription Adaptation during In Vitro Adipogenesis and Osteogenesis of Porcine Mesenchymal Stem Cells: Dynamics of Pathways, Biological Processes, Up-Stream Regulators, and Gene Networks. <i>PLoS ONE</i> , <b>2015</b> , 10, e0137644	3.7	31
72	Characterization of Madin-Darby bovine kidney cell line for peroxisome proliferator-activated receptors: temporal response and sensitivity to fatty acids. <i>Journal of Dairy Science</i> , <b>2008</b> , 91, 2808-13	4	31
71	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
70	Integrative analyses of hepatic differentially expressed genes and blood biomarkers during the periparturient period between dairy cows overfed or restricted-fed energy prepartum. <i>PLoS ONE</i> , <b>2014</b> , 9, e99757	3.7	31
69	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

68	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
67	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
66	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
65	The role of altered immune function during the dry period in promoting the development of subclinical ketosis in early lactation. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 9241-9258	4	23
64	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
63	Milk Protein Synthesis in the Lactating Mammary Gland: Insights from Transcriptomics Analyses <b>2012</b> ,		21
62	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
61	Use of Pig as a Model for Mesenchymal Stem Cell Therapies for Bone Regeneration. <i>Animal Biotechnology</i> , <b>2017</b> , 28, 275-287	1.4	20
60	The Impact of Intramammary Escherichia coli Challenge on Liver and Mammary Transcriptome and Cross-Talk in Dairy Cows during Early Lactation Using RNAseq. <i>PLoS ONE</i> , <b>2016</b> , 11, e0157480	3.7	19
59	CRISPR/Cas9-mediated Stearoyl-CoA Desaturase 1 (SCD1) Deficiency Affects Fatty Acid Metabolism in Goat Mammary Epithelial Cells. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 10041-10052	5.7	19
58	Advances in fatty acids nutrition in dairy cows: from gut to cells and effects on performance. <i>Journal of Animal Science and Biotechnology</i> , <b>2020</b> , 11, 110	6	18
57	Morphological and Transcriptomic Comparison of Adipose and Bone Marrow Derived Porcine Stem Cells. <i>The Open Tissue Engineering and Regenerative Medicine Journal</i> , <b>2009</b> , 2, 20-33		17
56	The management of intensive dairy farms can be improved for better welfare and milk yield. <i>Livestock Science</i> , <b>2006</b> , 103, 231-236	1.7	15
55	Heat stress negatively affects the transcriptome related to overall metabolism and milk protein synthesis in mammary tissue of midlactating dairy cows. <i>Physiological Genomics</i> , <b>2019</b> , 51, 400-409	3.6	14
54	Evaluation of Suitable Internal Control Genes for RT-qPCR in Yak Mammary Tissue during the Lactation Cycle. <i>PLoS ONE</i> , <b>2016</b> , 11, e0147705	3.7	14
53	2,4-Thiazolidinedione Treatment Improves the Innate Immune Response in Dairy Goats with Induced Subclinical Mastitis. <i>PPAR Research</i> , <b>2017</b> , 2017, 7097450	4.3	12
52	Systems for evaluation of welfare on dairy farms. <i>Journal of Dairy Research</i> , <b>2020</b> , 87, 13-19	1.6	12
51	Plasmid transfection in bovine cells: Optimization using a realtime monitoring of green fluorescent protein and effect on gene reporter assay. <i>Gene</i> , <b>2017</b> , 626, 200-208	3.8	11

50	Activation of liver X receptor promotes fatty acid synthesis in goat mammary epithelial cells via modulation of SREBP1 expression. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 3544-3555	4	10
49	The dilution effect and the importance of selecting the right internal control genes for RT-qPCR: a paradigmatic approach in fetal sheep. <i>BMC Research Notes</i> , <b>2015</b> , 8, 58	2.3	10
48	Transcriptional changes detected in fecal RNA of neonatal dairy calves undergoing a mild diarrhea are associated with inflammatory biomarkers. <i>PLoS ONE</i> , <b>2018</b> , 13, e0191599	3.7	10
47	Reducing milking frequency during nutrient restriction has no effect on the hepatic transcriptome of lactating dairy cattle. <i>Physiological Genomics</i> , <b>2013</b> , 45, 1157-67	3.6	10
46	Transcriptome difference and potential crosstalk between liver and mammary tissue in mid-lactation primiparous dairy cows. <i>PLoS ONE</i> , <b>2017</b> , 12, e0173082	3.7	10
45	Interaction between inflammation and metabolism in periparturient dairy cows. <i>Journal of Animal Science</i> , <b>2020</b> , 98, S155-S174	0.7	10
44	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
43	Myogenic potential of mesenchymal stem cells isolated from porcine adipose tissue. <i>Cell and Tissue Research</i> , <b>2018</b> , 372, 507-522	4.2	9
42	Influence of level of inclusion of Azolla leaf meal on growth performance, meat quality and skeletal muscle p70S6 kinase abundance in broiler chickens. <i>Animal</i> , <b>2020</b> , 14, 2423-2432	3.1	8
41	The interplay between non-esterified fatty acids and bovine peroxisome proliferator-activated receptors: results of an hybrid approach. <i>Journal of Animal Science and Biotechnology</i> , <b>2020</b> , 11, 91	6	8
40	Flaxseed and Carbohydrase Enzyme Supplementation Alters Hepatic n-3 Polyunsaturated Fatty Acid Molecular Species and Expression of Genes Associated with Lipid Metabolism in Broiler Chickens. <i>Veterinary Sciences</i> , <b>2019</b> , 6,	2.4	7
39	Physiological and Nutritional Roles of PPAR across Species. <i>PPAR Research</i> , <b>2013</b> , 2013, 807156	4.3	7
38	Plasma cortisol variations in dairy cows after some usual or unusual manipulations. <i>Italian Journal of Animal Science</i> , <b>2005</b> , 4, 200-202	2.2	7
37	Milk production, nitrogen utilization, and methane emissions of dairy cows grazing grass, forb, and legume-based pastures. <i>Journal of Animal Science</i> , <b>2020</b> , 98,	0.7	7
36	Milk Production, N Partitioning, and Methane Emissions in Dairy Cows Grazing Mixed or Spatially Separated Simple and Diverse Pastures. <i>Animals</i> , <b>2020</b> , 10,	3.1	7
35	Systems Biology and Animal Nutrition: Insights from the Dairy Cow during Growth and the Lactation Cycle <b>2011</b> , 215-245		6
34	Long term conjugated linoleic acid supplementation modestly improved growth performance but induced testicular tissue apoptosis and reduced sperm quality in male rabbit. <i>PLoS ONE</i> , <b>2020</b> , 15, e0226070	3.7	6
33	miRwoods: Enhanced precursor detection and stacked random forests for the sensitive detection of microRNAs. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1007309	5	5

32	Nutrigenomic effect of conjugated linoleic acid on growth and meat quality indices of growing rabbit. <i>PLoS ONE</i> , <b>2019</b> , 14, e0222404	3.7	5
31	Azolla leaf meal at 5% of the diet improves growth performance, intestinal morphology and p70S6K1 activation, and affects cecal microbiota in broiler chicken. <i>Animal</i> , <b>2021</b> , 15, 100362	3.1	5
30	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
29	Effects of Whole Plant Homogenate on Lipid Metabolism, Inflammatory Conditions and Liver Function of Dairy Cows during the Transition Period. <i>Animals</i> , <b>2020</b> , 10,	3.1	4
28	Graduate Student Literature Review: The milk behind the mustache: A review of milk and bone biology. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 7608-7617	4	4
27	Peroxisome proliferator-activated receptor $\alpha$ does not regulate glucose uptake and lactose synthesis in bovine mammary epithelial cells cultivated in vitro. <i>Journal of Dairy Research</i> , <b>2018</b> , 85, 295-302	1.6	4
26	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
25	2,4-Thiazolidinedione in Well-Fed Lactating Dairy Goats: I. Effect on Adiposity and Milk Fat Synthesis. <i>Veterinary Sciences</i> , <b>2019</b> , 6,	2.4	3
24	2,4-Thiazolidinedione in Well-Fed Lactating Dairy Goats: II. Response to Intra-Mammary Infection. <i>Veterinary Sciences</i> , <b>2019</b> , 6,	2.4	3
23	Cow milk does not affect adiposity in growing piglets as a model for children. <i>Journal of Dairy Science</i> , <b>2019</b> , 102, 4798-4807	4	3
22	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
21	The importance of selecting the right internal control gene to study the effects of antenatal glucocorticoid administration in human placenta. <i>Placenta</i> , <b>2016</b> , 44, 19-22	3.4	3
20	What's the norm in normalization? A frightening note on the use of RT-qPCR in the livestock science. <i>Gene: X</i> , <b>2019</b> , 721S, 100003	2.1	3
19	Selenium biofortified alfalfa hay fed in low quantities improves selenium status and glutathione peroxidase activity in transition dairy cows and their calves. <i>Journal of Dairy Research</i> , <b>2020</b> , 87, 184-190	1.6	3
18	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
17	280 OSTEOGENIC ACTIVITY OF IN HOUSE-PRODUCED PORCINE BMP2 ON ADIPOSE-DERIVED STEM CELLS. <i>Reproduction, Fertility and Development</i> , <b>2013</b> , 25, 288	1.8	2
16	Pasture production and lamb growth in agrivoltaic system <b>2021</b> ,		2
15	Transcriptomics Comparisons of Mac-T cells Versus Mammary Tissue during Late Pregnancy and Peak Lactation. <i>Journal of Advances in Dairy Research</i> , <b>2013</b> , 01,	0	1

14	Mammary Gland   Gene Networks Controlling Development and Involution <b>2011</b> , 346-351		1
13	The Interplay Between Non-Esterified Fatty Acids and Bovine Peroxisome Proliferator-Activated Receptors: Results of an In Vivo-In Vitro Hybrid Approach. <i>Current Developments in Nutrition</i> , <b>2020</b> , 4, 1245-1245	0.4	1
12	0100 Evaluation of immune function markers in OmniGen-AF <sup>®</sup> supplemented steers. <i>Journal of Animal Science</i> , <b>2016</b> , 94, 46-46	0.7	1
11	Short communication: Molecular markers for epithelial cells across gastrointestinal tissues and fecal RNA in preweaning dairy calves. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 1175-1182	4	1
10	Hepatic transcriptomic adaptation from prepartum to postpartum in dairy cows. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 1053-1072	4	1
9	Sun-dried Azolla leaf meal at 10% dietary inclusion improved growth, meat quality, and increased skeletal muscle Ribosomal protein S6 kinase $\beta$ abundance in growing rabbit. <i>Animal</i> , <b>2021</b> , 15, 100348	3.1	1
8	A natural bioactive feed additive alters expression of genes involved in inflammation in whole blood of healthy Angus heifers. <i>Innate Immunity</i> , <b>2020</b> , 26, 285-293	2.7	0
7	Transcriptome analysis showed differences of two purebred cattle and their crossbreds. <i>Italian Journal of Animal Science</i> , <b>2019</b> , 18, 70-79	2.2	0
6	Effect of milk vs. sugar-sweetened beverage supplementation on bone development in pre-pubertal pigs as model for children. <i>Italian Journal of Animal Science</i> , <b>2020</b> , 19, 1329-1340	2.2	
5	Unmasking Upstream Gene Expression Regulators with miRNA-corrected mRNA Data. <i>Bioinformatics and Biology Insights</i> , <b>2015</b> , 9, 33-48	5.3	
4	Effects of 2,4-thiazolidinedione (TZD) on milk fatty acid profile and serum vitamins in dairy goats challenged with intramammary infusion of. <i>Journal of Dairy Research</i> , <b>2020</b> , 87, 416-423	1.6	
3	0870 Percentages of milk fat, lactose, and protein are affected by diurnal variations in dairy goats. <i>Journal of Animal Science</i> , <b>2016</b> , 94, 418-418	0.7	
2	Mammary Gland: Gene Networks Controlling Development and Involution <b>2016</b> ,		
1	0725 Effect of 2,4-thiazolidinedione treatment in the inflammatory response to induced subclinical mastitis in dairy goats receiving adequate vitamin supplementation. <i>Journal of Animal Science</i> , <b>2016</b> , 94, 347-348	0.7	