

# Muriel Bonnet

## List of Publications by Year in descending order

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59  
papers

3,476  
citations

186209

28  
h-index

155592

55  
g-index

59  
all docs

59  
docs citations

59  
times ranked

3523  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent developments in altering the fatty acid composition of ruminant-derived foods. <i>Animal</i> , 2013, 7, 132-162.	1.3	657
2	How Muscle Structure and Composition Influence Meat and Flesh Quality. <i>Scientific World Journal</i> , The, 2016, 2016, 1-14.	0.8	432
3	Leptin expression in ruminants: Nutritional and physiological regulations in relation with energy metabolism. <i>Domestic Animal Endocrinology</i> , 2005, 29, 3-22.	0.8	219
4	Adipose tissue metabolism and its role in adaptations to undernutrition in ruminants. <i>Proceedings of the Nutrition Society</i> , 2000, 59, 127-134.	0.4	197
5	Leptin in ruminants. Gene expression in adipose tissue and mammary gland, and regulation of plasma concentration. <i>Domestic Animal Endocrinology</i> , 2001, 21, 271-295.	0.8	174
6	Adipocyte fatty acid-binding protein and mitochondrial enzyme activities in muscles as relevant indicators of marbling in cattle <sup>1</sup> . <i>Journal of Animal Science</i> , 2007, 85, 2660-2669.	0.2	122
7	Functional analysis of beef tenderness. <i>Journal of Proteomics</i> , 2011, 75, 352-365.	1.2	106
8	Ontogenesis of muscle and adipose tissues and their interactions in ruminants and other species. <i>Animal</i> , 2010, 4, 1093-1109.	1.3	101
9	Effects of photoperiod and feeding level on perirenal adipose tissue metabolic activity and leptin synthesis in the ovariectomized ewe. <i>Reproduction, Nutrition, Development</i> , 1998, 38, 489-498.	1.9	95
10	Selection of reference genes for quantitative real-time PCR normalisation in adipose tissue, muscle, liver and mammary gland from ruminants. <i>Animal</i> , 2013, 7, 1344-1353.	1.3	87
11	Mammary leptin synthesis, milk leptin and their putative physiological roles. <i>Reproduction, Nutrition, Development</i> , 2002, 42, 399-413.	1.9	78
12	Effect of sunflower-seed oil and linseed oil on tissue lipid metabolism, gene expression, and milk fatty acid secretion in Alpine goats fed maize silage-based diets. <i>Journal of Dairy Science</i> , 2009, 92, 6083-6094.	1.4	77
13	Lipoprotein Lipase Activity and mRNA Are Up-Regulated by Refeeding in Adipose Tissue and Cardiac Muscle of Sheep. <i>Journal of Nutrition</i> , 2000, 130, 749-756.	1.3	75
14	Leptin expression in the ovine mammary gland: putative sequential involvement of adipose, epithelial, and myoepithelial cells during pregnancy and lactation <sup>1</sup> . <i>Journal of Animal Science</i> , 2002, 80, 723-728.	0.2	59
15	Glucose-6-phosphate dehydrogenase and leptin are related to marbling differences among Limousin and Angus or Japanese Black A—Angus steers <sup>1,2</sup> . <i>Journal of Animal Science</i> , 2007, 85, 2882-2894.	0.2	57
16	Expression and nutritional regulation of lipogenic genes in mammary gland and adipose tissues of lactating goats. <i>Journal of Dairy Research</i> , 2005, 72, 250-255.	0.7	54
17	Milk Fat Globule in Ruminant: Major and Minor Compounds, Nutritional Regulation and Differences Among Species. <i>European Journal of Lipid Science and Technology</i> , 2018, 120, 1700039.	1.0	54
18	Feeding behaviour in ruminants: a consequence of interactions between a reward system and the regulation of metabolic homeostasis. <i>Animal Production Science</i> , 2015, 55, 247.	0.6	44

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19	Invited review: Pre- and postnatal adipose tissue development in farm animals: from stem cells to adipocyte physiology. <i>Animal</i> , 2016, 10, 1839-1847.	1.3	44
20	Beef tenderness and intramuscular fat proteomic biomarkers: muscle type effect. <i>PeerJ</i> , 2018, 6, e4891.	0.9	42
21	Effects of photoperiod and feeding level on adipose tissue and muscle lipoprotein lipase activity and mRNA level in dry non-pregnant sheep. <i>British Journal of Nutrition</i> , 2001, 85, 299-306.	1.2	41
22	Reverse Phase Protein array for the quantification and validation of protein biomarkers of beef qualities: The case of meat color from Charolais breed. <i>Meat Science</i> , 2018, 145, 308-319.	2.7	41
23	Reverse phase protein arrays for the identification/validation of biomarkers of beef texture and their use for early classification of carcasses. <i>Food Chemistry</i> , 2018, 250, 245-252.	4.2	40
24	Beef tenderness and intramuscular fat proteomic biomarkers: Effect of gender and rearing practices. <i>Journal of Proteomics</i> , 2019, 200, 1-10.	1.2	37
25	Messenger RNAs encoding lipoprotein lipase, fatty acid synthase and hormone-sensitive lipase in the adipose tissue of underfed-refed ewes and cows. <i>Reproduction, Nutrition, Development</i> , 1998, 38, 297-307.	1.9	34
26	Milk proteome from in silico data aggregation allows the identification of putative biomarkers of negative energy balance in dairy cows. <i>Scientific Reports</i> , 2019, 9, 9718.	1.6	34
27	ProteINSIDE to Easily Investigate Proteomics Data from Ruminants: Application to Mine Proteome of Adipose and Muscle Tissues in Bovine Foetuses. <i>PLoS ONE</i> , 2015, 10, e0128086.	1.1	33
28	Adipocyte metabolism and cellularity are related to differences in adipose tissue maturity between Holstein and Charolais or Blond d'Aquitaine fetuses <sup>1</sup> . <i>Journal of Animal Science</i> , 2011, 89, 711-721.	0.2	32
29	Protein Array-Based Approach to Evaluate Biomarkers of Beef Tenderness and Marbling in Cows: Understanding of the Underlying Mechanisms and Prediction. <i>Foods</i> , 2020, 9, 1180.	1.9	30
30	Effect of the level and type of starchy concentrate on tissue lipid metabolism, gene expression and milk fatty acid secretion in Alpine goats receiving a diet rich in sunflower-seed oil. <i>British Journal of Nutrition</i> , 2012, 107, 1147-1159.	1.2	29
31	Dataset reporting 4654 cow milk proteins listed according to lactation stages and milk fractions. <i>Data in Brief</i> , 2020, 29, 105105.	0.5	28
32	Nutritional status induces divergent variations of GLUT4 protein content, but not lipoprotein lipase activity, between adipose tissues and muscles in adult cattle. <i>British Journal of Nutrition</i> , 2004, 92, 617-625.	1.2	25
33	Cellular and molecular large-scale features of fetal adipose tissue: Is bovine perirenal adipose tissue Brown <sup>1685</sup> . <i>Journal of Cellular Physiology</i> , 2012, 227, 1688-1700.	2.0	25
34	Environmental Toxicity and Antimicrobial Efficiency of Titanium Dioxide Nanoparticles in Suspension. <i>Journal of Biomaterials and Nanobiotechnology</i> , 2015, 06, 213-224.	1.0	25
35	Pathways and biomarkers of marbling and carcass fat deposition in bovine revealed by a combination of gel-based and gel-free proteomic analyses. <i>Meat Science</i> , 2019, 156, 146-155.	2.7	24
36	Pregnancy increases plasma leptin in nulliparous but not primiparous goats while lactation depresses it. <i>Domestic Animal Endocrinology</i> , 2005, 28, 216-223.	0.8	20

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37	Expression of Enzymes and Transcription Factors Involved in n-3 Long Chain PUFA Biosynthesis in Limousin Bull Tissues. <i>Lipids</i> , 2012, 47, 391-401.	0.7	20
38	The Invalidation of HspB1 Gene in Mouse Alters the Ultrastructural Phenotype of Muscles. <i>PLoS ONE</i> , 2016, 11, e0158644.	1.1	19
39	Autophagy in farm animals: current knowledge and future challenges. <i>Autophagy</i> , 2021, 17, 1809-1827.	4.3	19
40	Quantification of biomarkers for beef meat qualities using a combination of Parallel Reaction Monitoring- and antibody-based proteomics. <i>Food Chemistry</i> , 2020, 317, 126376.	4.2	17
41	Breed and dietary linseed affect gene expression of enzymes and transcription factors involved in n-3 long chain polyunsaturated fatty acids synthesis in longissimus thoracis muscle of bulls <sup>1</sup> . <i>Journal of Animal Science</i> , 2013, 91, 3059-3069.	0.2	14
42	Molecular signatures of muscle growth and composition deciphered by the meta-analysis of age-related public transcriptomics data. <i>Physiological Genomics</i> , 2020, 52, 322-332.	1.0	13
43	A fluorescent reverse transcription-polymerase chain reaction assay to quantify the lipoprotein lipase messenger RNA. <i>Molecular and Cellular Probes</i> , 2001, 15, 187-194.	0.9	12
44	Protein Function Easily Investigated by Genomics Data Mining Using the ProteINSIDE Online Tool. <i>Genomics and Computational Biology</i> , 2015, 1, 16.	0.7	12
45	Proteomics Research in the Adipose Tissue. , 2018, , 233-254.		11
46	An open-access computer image analysis (CIA) method to predict meat and fat content from an android smartphone-derived picture of the bovine 5th-6th rib. <i>Methods</i> , 2021, 186, 79-89.	1.9	11
47	Sunflower-seed oil, rapidly-degradable starch, and adiposity up-regulate leptin gene expression in lactating goats. <i>Domestic Animal Endocrinology</i> , 2009, 37, 93-103.	0.8	10
48	Foetal bovine intermuscular adipose tissue exhibits histological and metabolic features of brown and white adipocytes during the last third of pregnancy. <i>Animal</i> , 2012, 6, 641-649.	1.3	9
49	Integrated data mining of transcriptomic and proteomic datasets to predict the secretome of adipose tissue and muscle in ruminants. <i>Molecular BioSystems</i> , 2016, 12, 2722-2734.	2.9	8
50	Image Analysis and Data Normalization Procedures are Crucial for Microarray Analyses. <i>Gene Regulation and Systems Biology</i> , 2008, 2, GRSB.S414.	2.3	5
51	Quest for Novel Muscle Pathway Biomarkers by Proteomics in Beef Production. , 2011, , 395-405.		5
52	Combining label-free and label-based accurate quantifications with SWATH-MS: Comparison with SRM and PRM for the evaluation of bovine muscle type effects. <i>Proteomics</i> , 2021, 21, e2000214.	1.3	5
53	Plasma proteomics reveals crosstalk between lipid metabolism and immunity in dairy cows receiving essential fatty acids and conjugated linoleic acid. <i>Scientific Reports</i> , 2022, 12, 5648.	1.6	5
54	A grass-based diet favours muscle n-3 long-chain PUFA deposition without modifying gene expression of proteins involved in their synthesis or uptake in Charolais steers. <i>Animal</i> , 2013, 7, 1833-1840.	1.3	3

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55	Liver proteome profiling in dairy cows during the transition from gestation to lactation: Effects of supplementation with essential fatty acids and conjugated linoleic acids as explored by PLS-DA. Journal of Proteomics, 2022, 252, 104436.	1.2	3
56	Prediction of the Secretome and the Surfaceome: A Strategy to Decipher the Crosstalk between Adipose Tissue and Muscle during Fetal Growth. International Journal of Molecular Sciences, 2020, 21, 4375.	1.8	2
57	The Blonde d'Aquitaine T3811&gt;G3811 mutation in the <i>myostatin</i> gene: association with growth, carcass, and muscle phenotypes in veal calves. Journal of Animal Science, 2021, 99, .	0.2	1
58	Guest Editor introduction. Methods, 2021, 186, 1-2.	1.9	0
59	Quest for biomarkers of the lean-to-fat ratio by proteomics in beef production. , 2013, , 43-44.		0