

Nathalie Bissonnette

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,142
citations

394286

19
h-index

414303

32
g-index

49
all docs

49
docs citations

49
times ranked

1437
citing authors

#	ARTICLE	IF	CITATIONS
1	A molecular analysis of the population of mRNA in bovine spermatozoa. <i>Reproduction</i> , 2007, 133, 1073-1086.	1.1	106
2	Spermatozoal transcriptome profiling for bull sperm motility: a potential tool to evaluate semen quality. <i>Reproduction</i> , 2009, 138, 65-80.	1.1	94
3	The GATK joint genotyping workflow is appropriate for calling variants in RNA-seq experiments. <i>Journal of Animal Science and Biotechnology</i> , 2019, 10, 44.	2.1	83
4	Detection limits of several commercial reverse transcriptase enzymes: impact on the low- and high-abundance transcript levels assessed by quantitative RT-PCR. <i>BMC Molecular Biology</i> , 2007, 8, 93.	3.0	76
5	Deep sequencing shows microRNA involvement in bovine mammary gland adaptation to diets supplemented with linseed oil or safflower oil. <i>BMC Genomics</i> , 2015, 16, 884.	1.2	67
6	Administration of probiotics influences F4 (K88)-positive enterotoxigenic <i>Escherichia coli</i> attachment and intestinal cytokine expression in weaned pigs. <i>Veterinary Research</i> , 2011, 42, 69.	1.1	65
7	Direct-fed microbial supplementation influences the bacteria community composition of the gastrointestinal tract of pre- and post-weaned calves. <i>Scientific Reports</i> , 2018, 8, 14147.	1.6	50
8	Transcriptome adaptation of the bovine mammary gland to diets rich in unsaturated fatty acids shows greater impact of linseed oil over safflower oil on gene expression and metabolic pathways. <i>BMC Genomics</i> , 2016, 17, 104.	1.2	46
9	Comparison of commercial DNA extraction kits and quantitative PCR systems for better sensitivity in detecting the causative agent of paratuberculosis in dairy cow fecal samples. <i>Journal of Dairy Science</i> , 2017, 100, 572-581.	1.4	45
10	Low-depth genotyping-by-sequencing (GBS) in a bovine population: strategies to maximize the selection of high quality genotypes and the accuracy of imputation. <i>BMC Genetics</i> , 2017, 18, 32.	2.7	44
11	Increased blood-circulating interferon- γ , interleukin-17, and osteopontin levels in bovine paratuberculosis. <i>Journal of Dairy Science</i> , 2014, 97, 3382-3393.	1.4	43
12	Osteopontin: an early innate immune marker of <i>Escherichia coli</i> mastitis harbors genetic polymorphisms with possible links with resistance to mastitis. <i>BMC Genomics</i> , 2009, 10, 444.	1.2	40
13	Genetic variations in the <i>SPP1</i> promoter affect gene expression and the level of osteopontin secretion into bovine milk. <i>Animal Genetics</i> , 2014, 45, 629-640.	0.6	40
14	Transcriptome Profiling of Bovine Macrophages Infected by <i>Mycobacterium avium</i> spp. paratuberculosis Depicts Foam Cell and Innate Immune Tolerance Phenotypes. <i>Frontiers in Immunology</i> , 2019, 10, 2874.	2.2	30
15	Impact of <i>Saccharomyces cerevisiae</i> boulardii CNCM1-1079 and <i>Lactobacillus acidophilus</i> BT1386 on total lactobacilli population in the gastrointestinal tract and colon histomorphology of Holstein dairy calves. <i>Animal Feed Science and Technology</i> , 2017, 234, 151-161.	1.1	29
16	Proteomic analysis and immunodetection of the bovine milk osteopontin isoforms. <i>Journal of Dairy Science</i> , 2012, 95, 567-579.	1.4	21
17	Integration of lncRNA and mRNA Transcriptome Analyses Reveals Genes and Pathways Potentially Involved in Calf Intestinal Growth and Development during the Early Weeks of Life. <i>Genes</i> , 2018, 9, 142.	1.0	20
18	Detection of <i>Mycobacterium avium</i> subspecies paratuberculosis in tie-stall dairy herds using a standardized environmental sampling technique and targeted pooled samples. <i>Canadian Journal of Veterinary Research</i> , 2016, 80, 175-82.	0.2	20

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19	Supplements of vitamins B9 and B12 affect hepatic and mammary gland gene expression profiles in lactating dairy cows. <i>BMC Genomics</i> , 2016, 17, 640.	1.2	19
20	Short communication: Genetic association of variations in the osteopontin gene (SPP1) with lactation persistency in dairy cattle. <i>Journal of Dairy Science</i> , 2018, 101, 456-461.	1.4	19
21	Transcriptome Analysis of Long Non-Coding RNA in the Bovine Mammary Gland Following Dietary Supplementation with Linseed Oil and Safflower Oil. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3610.	1.8	18
22	Piglet weight gain during the first two weeks of lactation influences the immune system development. <i>Veterinary Immunology and Immunopathology</i> , 2018, 206, 25-34.	0.5	17
23	Co-Expression Network Analysis Identifies miRNA-mRNA Networks Potentially Regulating Milk Traits and Blood Metabolites. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2500.	1.8	14
24	The combination of nutraceuticals and functional feeds as additives modulates gut microbiota and blood markers associated with immune response and health in weanling piglets. <i>Journal of Animal Science</i> , 2020, 98, .	0.2	12
25	Methods for Detecting Mycobacterial Mixed Strain Infectionsâ€”A Systematic Review. <i>Frontiers in Genetics</i> , 2020, 11, 600692.	1.1	12
26	<i>Saccharomyces cerevisiae</i> var. <i>boulardii</i> CNCM I-1079 and <i>Lactobacillus acidophilus</i> BT1386 influence innate immune response and serum levels of acute-phase proteins during weaning in Holstein calves. <i>Canadian Journal of Animal Science</i> , 2018, 98, 576-588.	0.7	11
27	Functional analysis of bovine interleukin-10 receptor alpha in response to <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> lysate using CRISPR/Cas9. <i>BMC Genetics</i> , 2020, 21, 121.	2.7	11
28	Simultaneous detection of eight single nucleotide polymorphisms in the ovine prion protein gene. <i>Molecular and Cellular Probes</i> , 2007, 21, 363-367.	0.9	10
29	Genome-wide association analysis identified both RNA-seq and DNA variants associated to paratuberculosis in Canadian Holstein cattle â€”in vitroâ€” experimentally infected macrophages. <i>BMC Genomics</i> , 2021, 22, 162.	1.2	10
30	Identification of Long Non-coding RNA Isolated From Naturally Infected Macrophages and Associated With Bovine Johne's Disease in Canadian Holstein Using a Combination of Neural Networks and Logistic Regression. <i>Frontiers in Veterinary Science</i> , 2021, 8, 639053.	0.9	10
31	Whole Genome DNA Methylation Variations in Mammary Gland Tissues from Holstein Cattle Producing Milk with Various Fat and Protein Contents. <i>Genes</i> , 2021, 12, 1727.	1.0	10
32	Treatment and post-treatment effects of dietary supplementation with safflower oil and linseed oil on milk components and blood metabolites of Canadian Holstein cows. <i>Journal of Applied Animal Research</i> , 2018, 46, 898-906.	0.4	8
33	Regionally Distinct Immune and Metabolic Transcriptional Responses in the Bovine Small Intestine and Draining Lymph Nodes During a Subclinical <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> Infection. <i>Frontiers in Immunology</i> , 2021, 12, 760931.	2.2	8
34	In vivo expression of the antimicrobial defensin and lactoferrin proteins allowed by the strategic insertion of introns adequately spliced. <i>Gene</i> , 2006, 372, 142-152.	1.0	5
35	A targeted genotyping approach to enhance the identification of variants for lactation persistency in dairy cows. <i>Journal of Animal Science</i> , 2019, 97, 4066-4075.	0.2	5
36	Impact of birth weight and neonatal nutritional interventions with micronutrients and bovine colostrum on the development of piglet immune response during the peri-weaning period. <i>Veterinary Immunology and Immunopathology</i> , 2020, 226, 110072.	0.5	4

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37	PSVI-14 Differentially expressed microRNAs with potential regulatory roles in ileum of Holstein cows with subclinical Johneâ€™s disease. <i>Journal of Animal Science</i> , 2019, 97, 206-207.	0.2	3
38	PSVI-15 Transcriptome analysis of ileal lymph nodes identifies key microRNAs affecting disease progression in Holstein cows with subclinical Johneâ€™s disease. <i>Journal of Animal Science</i> , 2019, 97, 207-208.	0.2	3
39	63 DNA methylome wide profile associates differentially methylated loci and regions with cowâ€™s ileal lymph node response to <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> . <i>Journal of Animal Science</i> , 2020, 98, 39-40.	0.2	3
40	Whole Genome Methylation Analysis Reveals Role of DNA Methylation in Cowâ€™s Ileal and Ileal Lymph Node Responses to <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> Infection. <i>Frontiers in Genetics</i> , 2021, 12, 797490.	1.1	3
41	Association of genetic polymorphisms related to Johneâ€™s disease with estimated breeding values of Holstein sires for milk ELISA test scores. <i>BMC Veterinary Research</i> , 2020, 16, 165.	0.7	2
42	PSVIII-15 Genome wide DNA methylation analysis reveals role of DNA methylation in cowâ€™s ileal response to <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> . <i>Journal of Animal Science</i> , 2020, 98, 260-261.	0.2	2
43	23 Differential microRNA expression in jejunal tissue and jejunal lymph nodes following naturally occurring <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> infection in Holstein cows. <i>Journal of Animal Science</i> , 2019, 97, 20-21.	0.2	1
44	Effect of the administration of copper, vitamins A and D and bovine colostrum on performances, antioxidant and micronutrients status and microbiome in lactating piglets on a commercial farm. <i>Livestock Science</i> , 2021, 251, 104609.	0.6	1
45	156 Genome-wide DNA Methylation Profile of Mammary Gland Tissues from Holstein Cattle Producing Various Milk Protein Yields. <i>Journal of Animal Science</i> , 2021, 99, 84-85.	0.2	0
46	29 Conditional GWAS using sequence-based genotypes for susceptibility to <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> infection in Canadian Holstein. <i>Journal of Animal Science</i> , 2020, 98, 17-17.	0.2	0