Vincenzo Lopreiato, PhD

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Summary

Full-time Researcher (AGR/19) with 8 years of experience in ruminant nutrition and physiology, and several papers already published. Vincenzo was born and raised on a dairy farm in southern Italy and learned to appreciate Italian agriculture at a young age.

After completing the Master of Science in animal production at UCSC of Piacenza, Vincenzo received his PhD in animal science at Magna Graecia University. Vincenzo is currently a Full-time Researcher of dairy nutrition and physiology at Università degli Studi of Messina in the Department of Veterinary Science.

Vincenzo's research program has focused on nutritional and physiological aspects including genomic during the transition period of dairy cows and dairy calves. His laboratory draws on live animals as models to uncover regulatory mechanisms associated with nutrient effects on tissue development and function. Transcriptomics, metabolomics, bioinformatics, and Cytofluorimetry are some of the tools used in the laboratory in an effort to apply Systems Physiology.

Besides the academic experiences, Vincenzo has been involved in the family farm. The farm raises Simmental dairy cows and transforms the milk in different cheese-products sold in the local market.

Academic Positions:

2021–present **Full-time Researcher (AGR/19) in Animal Science at** Department of Veterinary Sciences, Università degli studi of Messina, Italy.

2019 – 2021 Postdoctoral Research Associate at Department of Animal Science, Food and Nutrition of Università Cattolica of Sacro Cuore of Piacenza, Italy.

Education Background:

2015 – 2019 Ph.D. Student.

My PhD research focused on the administration of bovine granulocyte colony stimulating factor to dairy Simmental cows during the peripartal period. The effect of this treatment will be evaluated on metabolic, inflammatory, and whole blood gene expression. Moreover, I am also working on the effects of marine sulphated polysaccharides (MSPs) supplementation on neonatal Simmental calves performances, and blood metabolites. In addition, I tested the application of an automatic rumination- activity monitoring system (Hi-Tags, SCR Engineers) on dairy calves.

In April 2019 I defended my Ph.D. dissertation entitled: "Priming the dairy cow for lactation: insights into metabolism, immunity, and performances related to strategies for the optimization of transition period."

2013 M.S. (Agriculture Science and Technology, Animal Production Science) Università Cattolica del Sacro Cuore - Piacenza, Italy [Paolo Bani Advisor] Thesis: Estimation of feed intake and methane emission in group-fed dairy cows.

2011 B.S. (Agriculture Science and Technology) Università Cattolica del Sacro Cuore - Piacenza, Italy [Paolo Bani Advisor] thesis: Effect of corn grain maturation on in vitro rumen fermentation.

Scientific Collaborations:

July 2017
April 2018 Scientific collaboration with Department of Animal Science, College of Agricultural, Consumer and Environmental Sciences. University of Illinois, Urbana, USA.
Research Responsibilities: Leader of the project "Effect of folate, cobalt, and methionine supplementation on gene expression (liver tissue, neutrophils, and adipose tissue) metabolic profile and productive performances in dairy cows during the periparturient period".
Laboratory and farm activities for the following projects: 1) short-term effects of targeted post-ruminal choline supplementation to cows during a feed restriction-induced negative energy balance on blood, liver tissue (mRNA), and milk production and components. 2) Efficacy of supplementing NutriTek® to lactating dairy cows on performance, immunometabolism, and health in response to an intramammary mastitis challenge.

March 2014
Dec. 2014 Scientific collaboration contract with Università Cattolica del Sacro Cuore, Piacenza, Italy. *Research Responsibilities*: Ruminant Physiology and Nutrition in Transition dairy cows.

Sept. 2012
March 2013 Scientific collaboration contract with AgReserach Limited, Palmerston North, New Zealand.
Research Responsibilities: Application of methods to measure methane emissions from ruminants and strategies to reduce and mitigate methane productions.
Activities: measurement of ruminant methane emission using SF^6 technique, respiration chamber, and the GreenGeed automated system.
Outcomes: 1) Genetic parameters of methane emissions determined using portable accumulation chambers in lambs and ewes grazing pasture and genetic correlations with emissions determined in respiration chambers. 2) Heritability estimates of methane emissions from sheep. 3) Effects of feed intake on enteric methane emissions from sheep fed fresh white clover (Trifolium repens) and perennial ryegrass (Lolium perenne) forages.

Courses taught:

2020 and 2021 **Precision Livestock Farming**
The same course was taught in 2020 and 2021 for 2 different groups of students.
Course description: Course of 20 hours. During the first part of the course (10 hours) all the aspects linked to the precision techniques applied to animal science were analyzed: precision management of livestock, precision feeding and computerized reproductive management. The precision monitoring of infectious and non-infectious

diseases was also investigated. The second part (10 hours) analyzed the logistic and structural organization of the farm, using geographic information system (GIS) and Digital mapping techniques for the management and processing of spatial data.

Relevant Laboratory Skills:

Chemical experiments: Set up and conducted chemical tests and analyses with precision that led to published reports in academic journals (ELISA, colorimetric and fluorometric assays).

Laboratory instruments: Hematology and Chemistry analyzer, FT-MIR and FT-NIR instruments, Gas Chromatography, HPLC.

Cells: Isolation of Leukocytes from whole blood and milk (PMNL) and evaluation of functionality by flow cytometry analysis.

Isolation of PMNL and PBMC from whole blood and their stain for identifying subpopulations.

Molecular Biology: Extraction of DNA and RNA from immune cells, liver and adipose tissue, and whole blood. PCR and agarose gels.

Genetic Analysis: Gene expression.

Statistical analysis: ANOVA, Principal component analysis PCA, Partial least squares regression PLS, discriminant analysis, Bland Altman analysis,

Other laboratory skills: In vitro rumen fermentation and gas production technique, Feed analysis.

General skills: Data management, evaluation of laboratory data output.

Relevant In Vivo Animal Skills:

Samples collection: Blood, milk, urine, and fecal samples in cattle and sheep.

Biopsies: Liver, Adipose, and Mammary tissue collection in cattle (cows and calves) and sheep.

Relevant on Farm Skills:

Animals' management: Dairy and Beef diet formulation, herd and breeding management.

Machineries: Tractors and mixers for feeding animals.

Softwares: AfiFarm, Data Flow II (SCR), Dairy Comp, DairyPlan (GEA).

Research Supervisor and training Responsibilities:

2015 to present Mentor of 2 Animal science undergraduate students for thesis development.
Mentor of 15 Animal science undergraduate students for laboratory internship involving in feed analysis.

Editorships of Journals or Other Learned Publications:

2019 to present Animals: Guest Editor of the Special Issues "Priming the Dairy Cow for Lactation: Insights into Metabolism, Immunity, and Performances Related to Strategies for the Optimization of the Transition Period".

Other Professional Employment:

2008 to present	Farm manager at Fattoria Demetra, Calabria, Italy.
2008 to present	Consultant, Fattoria Demetra, Calabria, Italy. Dairy consultancy at all levels of farm business including farm management, system analysis, financial analysis, and strategic planning. Fattoria Demetra encompasses a 60-ha farm with a Simmental dairy herd of A2 beta-casein cows producing milk to make cheese and dairy products.
June 2018 to present	Expert-Member of the Agricultural Consultant Association, Stefanaconi (VV), Italy.

Funding:

Fellowship:

- 2014 Short-Term Fellowship fund research within eCOST Action FA1302 – Methagene Large-scale measurements on individual ruminate for genetic evaluation. Faculty of Science, Division of Animal Sciences. University of Nottingham, Loughborough, UK.

Scholarship:

- 2019 European Federation of Animal Science (EAAP) Scholarship for attending the EAAP Annual Meeting in Ghent 2019 – The paper positively evaluated by EAAP Committee was: Post-calving leukocyte immune-related genes are enhanced in Simmental compared with Holstein cows.

Awards:

- 2019 Young Researcher SISVET with the paper: 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. JOURNAL OF DAIRY SCIENCE

Editor Activity for Scientific Journals:

- Review Editor in Animal Management Section of Frontiers in Animal Science
- Review Editor in Product Quality Section of Frontiers in Animal Science
- Guest Editor: Special Issue "Priming the Dairy Cow for Lactation". Animals (MPDI)

Courses:

2016	Multivariate Statistical Analysis, Sassari (Italy)
2014	Ruminomics Summer School, Piacenza (Italy)
2014	Methagene Training School, Dummerstorf (Germany)

Conferences:

2021.	XXIV Congress of Animal Science (ASPA), Padova, Italy
2019	EAAP 2019, 70th Annual Meeting 2019, Ghent, Belgium
2019	SISVET 2019, 73° Annual Meeting, Olbia, Italy
2019	ADSA 2019 Annual Meeting, Cincinnati (USA)

2019	XXIII Congress of Animal Science (ASPA), Sorrento, Italy
2018	ADSA 2018 Annual Meeting, Knoxville (USA)
2017	XXII Congress of Animal Science (ASPA), Perugia, Italy
2016	World Buiatrics Congress, Dublin 2016

Publications

Peer-Reviewed Papers

1. F. Piccioli-Cappelli, C.J. Seal, D.S. Parker, J.J. Loor, A. Minuti, **V. Lopreiato**, and E. Trevisi. 2021.
   Effect of stage of lactation and dietary starch content on endocrine-metabolic status, blood amino acid concentrations, milk yield, and composition in Holstein dairy cows. J. Dairy Sci.

2. Mezzetti M., Premi M., Minuti A., Bani P., **Lopreiato V.**, and Trevisi E. 2021.
   Effect of a feed additive containing yeast cell walls, clove and coriander essential oils and Hibiscus sabdariffa administered to mid-lactating dairy cows on productive performance, rumen fluid composition and metabolic conditions. Ital. J. Anim. Sci.

3. L. Cattaneo, M. Mezzetti, **V. Lopreiato**, F. Piccioli-Cappelli, E. Trevisi, and A. Minuti. 2021.
   Gene network expression of whole blood leukocytes in dairy cows with different milk yield at dry-off. Plos one.

4. **V. Lopreiato**, M. H. Ghaffari, L. Cattaneo, G. Ferronato, A. S. Alharthi, F. Piccioli-Cappelli, J. J. Loor, E. Trevisi, and A. Minuti. 2021.
   Suitability of rumination time during the first week after calving for detecting metabolic status and lactation performance in simmental dairy cows: a cluster-analytic approach. Ital. J. Anim. Sci.

5. L.Cattaneo, F.Piccioli-Cappelli, **V.Lopreiato**, G.Lovotti, N.Arrigoni, A.Minuti, and E.Trevisi. 2021.
   Drying-off cows with low somatic cell count with or without antibiotic therapy: A pilot study addressing the effects on immunometabolism and performance in the subsequent lactation. Livest. Sci.

6. A. A. Spina, C. Ceniti, F. Trimboli, D. Britti and **V. Lopreiato***. 2021
   Suitability of Protein Content Measured by MilkoScan FT-Plus Milk Analyzer to Evaluate Bovine and Ovine Colostrum Quality. Animals

7. G. De Matteis, M. C. Scatà, G. Catillo, F. Grandoni, E. Rossi, D. M. Zilio, A. Crisà, **V. Lopreiato**, E. Trevisi and V. L. Barile. 2021.
   Comparison of metabolic, oxidative and inflammatory status of Simmental × Holstein crossbred with parental breeds during the peripartal and early lactation periods. J. Dairy Res.

8. L. Cattaneo, **V. Lopreiato**, F. Piccioli-Cappelli, E. Trevisi, and A. Minuti. 2021.
   Albumin-to-globulin ratio before dry-off as a possible index of inflammatory status and performance in the subsequent lactation in dairy cows. J. Dairy Sci.

9. Bucktrout, R.E., N. Ma, A. Aboragah, A.S. Alharthi, Y. Liang, **V. Lopreiato**, M.G. Lopes, E. Trevisi, I.A. Alhidary, C. Fernandez, and J.J. Loor. 2021.
   One-carbon, carnitine, and glutathione metabolism-related biomarkers in peripartal Holstein cows are altered by prepartal body condition. J. Dairy Sci.

10. Vailati-Riboni, M., D.N. Coleman, **V. Lopreiato**, A. Alharthi, R.E. Bucktrout, E. Abdel-Hamied, I. Martinez-Cortes, Y. Liang, E. Trevisi, I. Yoon, and J.J. Loor. 2021.
    Feeding a Saccharomyces cerevisiae fermentation product improves udder health and immune response to a Streptococcus uberis mastitis challenge in mid-lactation dairy cows. J. Anim. Sci. Biotechnol.

11. Coleman, D.N., A.S. Alharthi, Y. Liang, M.G. Lopes, **V. Lopreiato**, M. Vailati-Riboni, and J.J. Loor. 2021.
    Multifaceted role of one-carbon metabolism on immunometabolic control and growth during pregnancy, lactation and the~neonatal period in dairy cattle. J. Anim. Sci. Biotechnol.

12. Morittu, V.M., A. Minuti, A. Spina, M. V Riboni, F. Piccioli-Cappelli, E. Trevisi, D. Britti, and **V. Lopreiato***. 2021.
    Age-related metabolic changes of pre-weaned Simmental calves fed whole bulk milk and ad libitum calf starter. Res. Vet. Sci.

13. M.G. Lopes, A.S. Alharthi, **V. Lopreiato**, E. Abdel-Hamied, Y. Liang, D.N. Coleman, H. Dai, M.N. Corrêa, M.T. Socha, M.A. Ballou, E. Trevisi, and J.J. Loor. 2021.
    Maternal supplementation with cobalt sources, folic acid, and rumen-protected methionine and its effects on molecular and functional correlates of the immune system in neonatal Holstein calves. J. Dairy Sci.

14. M.G. Lopes, A.S. Alharthi, **V. Lopreiato**, E. Abdel-Hamied, Y. Liang, D.N. Coleman, H. Dai, M.N. Corrêa, C. Fernandez, and J.J. Loor. 2021.
    Maternal body condition influences neonatal calf whole-blood innate immune molecular responses to ex vivo lipopolysaccharide challenge. J. Dairy Sci.

15. Liang, Y., A.S. Alharthi, R. Bucktrout, A.A. Elolimy, **V. Lopreiato**, I. Martinez-Cortés, C. Xu, C. Fernandez, E. Trevisi, and J.J. Loor. 2020.
    Body condition alters glutathione and nuclear factor erythroid 2-like 2 (NFE2L2) related antioxidant network abundance in subcutaneous adipose tissue of periparturient Holstein cows. J. Dairy Sci.

16. V. Bronzo, **V. Lopreiato**, F. Riva, M. Amadori, G. Curone, M.F. Addis, P. Cremonesi, P. Moroni, E. Trevisi, and B. Castiglioni. 2020.
    The Role of Innate Immune Response and Microbiome in Resilience of Dairy Cattle to Disease: The Mastitis Model. Animals.

17. Liang, Y., A.S. Alharthi, A.A. Elolimy, R. Bucktrout, **V. Lopreiato**, I. Martinez-Cortés, C. Xu, C. Fernandez, E. Trevisi, and J.J. Loor. 2020.
    Molecular networks of insulin signaling and amino acid metabolism in subcutaneous adipose tissue are altered by body condition in periparturient Holstein cows. J. Dairy Sci.

18. Morittu, V.M., **V. Lopreiato***, C. Ceniti, A.A. Spina, A. Minuti, E. Trevisi, D. Britti, and F. Trimboli. 2020.
    Technical note: Capillary electrophoresis as a rapid test for the quantification of immunoglobulin G in serum of newborn lambs. J. Dairy Sci.

19. **Lopreiato, V.**, M. Vailati-Riboni, C. Parys, C. Fernandez, A. Minuti, and J.J. Loor. 2020.
Methyl donor supply to heat stress-challenged polymorphonuclear leukocytes from lactating Holstein cows enhances 1-carbon metabolism, immune response, and cytoprotective gene network abundance. J. Dairy Sci.

20. Crookenden, M.A., C.V.C. Phyn, S.A. Turner, J.J. Loor, A.I. Smith, **V. Lopreiato**, C.R. Burke, A. Heiser, and J.R. Roche. 2020.
Feeding synthetic zeolite to transition dairy cows alters neutrophil gene expression. J. Dairy Sci.

21. **Lopreiato, V.***, M. Vailati-Riboni, V.M. Morittu, D. Britti, F. Piccioli-Cappelli, E. Trevisi, and A. Minuti. 2020.
Post-weaning rumen fermentation of Simmental calves in response to weaning age and relationship with rumination time measured by the Hr-Tag rumination-monitoring system. Livest. Sci.

22. Minuti, A., A. Gallo, **V. Lopreiato**, S. Bruschi, F. Piccioli-Cappelli, O. Uboldi, and E. Trevisi. 2020.
Effect of litter size on prepartum metabolic and amino acidic profile in rabbit does. Animal

23. **Lopreiato, V.**, A. Minuti, V.M. Morittu, D. Britti, F. Piccioli-Cappelli, J.J. Loor, and E. Trevisi. 2020.
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. J. Dairy Sci.

24. Trimboli, F., M. Ragusa, C. Piras, **V. Lopreiato***, and D. Britti. 2020.
Outcomes from Experimental Testing of Nonsteroidal Anti-Inflammatory Drug (NSAID) Administration during the Transition Period of Dairy Cows. Animals

25. **Lopreiato, V.**, M. Mezzetti, L. Cattaneo, G. Ferronato, A. Minuti, and E. Trevisi. 2020.
Role of nutraceuticals during the transition period of dairy cows: a review. J. Anim. Sci. Biotechnol.

26. Cabiddu, A., M. Dattena, M. Decandia, G. Molle, **V. Lopreiato**, A. Minuti, and E. Trevisi. 2020.
The effect of parity number on the metabolism, inflammation, and oxidative status of dairy sheep during the transition period. J. Dairy Sci.

27. Cattaneo, L., **V. Lopreiato**, E. Trevisi, and A. Minuti. 2020.
Association of postpartum uterine diseases with lying time and metabolic profiles of multiparous Holstein dairy cows in the transition period. Vet. J.

28. **Lopreiato, V.***, E. Palma, A. Minuti, J.J. Loor, M. Lopreiato, F. Trimboli, V.M. Morittu, A.A. Spina, D. Britti, and E. Trevisi. 2020.
Pegbovigrastim Treatment around Parturition Enhances Postpartum Immune Response Gene Network Expression of whole Blood Leukocytes in Holstein and Simmental Cows. Animals

29. Coleman, D.N., **V. Lopreiato**, A.S. Alharthi, and J.J. Loor. 2020.
Amino acids and the regulation of oxidative stress and immune function in dairy cattle. J. Anim. Sci.

30. Minuti, A., M. Bionaz, **V. Lopreiato**, N.A. Janovick, S.L. Rodriguez-Zas, J.K. Drackley, and J.J. Loor. 2020.
Prepartum dietary energy intake alters adipose tissue transcriptome profiles during the periparturient period in Holstein dairy cows. J. Anim. Sci. Biotechnol.

31. Minuti, A., N. Jahan, **V. Lopreiato**, F. Piccioli-Cappelli, L. Bomba, S. Capomaccio, J.J. Loor, P. Ajmone-Marsan, and E. Trevisi. 2020.
Evaluation of circulating leukocyte transcriptome and its relationship with immune function and blood markers in dairy cows during the transition period. Funct. Integr. Genomics

32. **Lopreiato, V.**, A. Minuti, F. Trimboli, D. Britti, V.M. Morittu, F.P. Cappelli, J.J. Loor, and E. Trevisi. 2019.
Immunometabolic status and productive performance differences between periparturient Simmental and Holstein dairy cows in response to pegbovigrastim. J. Dairy Sci.

33. F. Trimboli, V.M. Morittu, A. Di Loria, A. Minuti, A.A. Spina, F. Piccioli-Cappelli, E. Trevisi, D. Britti, and **V. Lopreiato.** 2019.
Effect of Pegbovigrastim on Hematological Profile of Simmental Dairy Cows during the Transition Period. Animals

34. Shahzad, K., **V. Lopreiato**, Y. Liang, E. Trevisi, J.S. Osorio, C. Xu, and J.J. Loor. 2019.
Hepatic metabolomics and transcriptomics to study susceptibility to ketosis in response to prepartal nutritional management. J. Anim. Sci. Biotechnol.

35. Alharthi, A.S., **V. Lopreiato**, H. Dai, R. Bucktrout, M. Abdelmegeid, F. Batistel, C. Parys, X. Shen, M.A. Ballou, E. Trevisi, I.A. Alhidary, M.M. Abdelrahman, and J.J. Loor. 2019.
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. J. Dairy Sci.

36. Trimboli, F., N. Costanzo, **V. Lopreiato**, C. Ceniti, V.M. Morittu, A. Spina, and D. Britti. 2019.
Detection of buffalo milk adulteration with cow milk by capillary electrophoresis analysis. J. Dairy Sci.

37. Ceniti, C., D. Britti, F. Trimboli, V.M. Morittu, **V. Lopreiato**, and N. Costanzo. 2019.
Evaluation of freezing point in milk from buffalos reared in Calabria, Italy. Ital. J. Food Saf.

38. Coleman, D.N., A. Alharthi, **V. Lopreiato**, E. Trevisi, M. Miura, Y.-X. Pan, and J.J. Loor. 2019.
Choline supply during negative nutrient balance alters hepatic cystathionine-synthase, intermediates of the methionine cycle and transsulfuration pathway, and liver function in Holstein cows. J. Dairy Sci.

39. **Lopreiato, V.**, M. Vailati-Riboni, A. Bellingeri, I. Khan, G. Farina, C. Parys, and J.J. Loor. 2019.
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. J. Dairy Sci.

40. Alharthi, A., Z. Zhou, **V. Lopreiato**, E. Trevisi, and J.J. Loor. 2018.
Body condition score prior to parturition is associated with plasma and adipose tissue biomarkers of lipid metabolism and inflammation in Holstein cows. J. Anim. Sci. Biotechnol.

41. **Lopreiato, V.**, A. Minuti, F.P. Cappelli, M. Vailati-Riboni, D. Britti, E. Trevisi, and V.M. Morittu. 2018.
Daily rumination pattern recorded by an automatic rumination-monitoring system in pre-weaned calves fed whole bulk milk and ad libitum calf starter. Livest. Sci.

42. **Lopreiato, V.**, A. Hosseini, F. Rosa, Z. Zhou, A. Alharthi, E. Trevisi, and J.J. Loor. 2018.
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-α challenge in nonlactating, nonpregnant Holstein cows. J. Dairy Sci.

43. Abdelmegeid, M.K., A.A. Elolimy, Z. Zhou, **V. Lopreiato**, J.C. McCann, and J.J. Loor. 2018.
Rumen-protected methionine during the peripartal period in dairy cows and its effects on abundance of major species of ruminal bacteria. J. Anim. Sci. Biotechnol.

44. Castagna, F., D. Britti, S. Russo, C. Ceniti, A. Poerio, G. Loprete, **V. Lopreiato**, F. De Nardo, G. Consolo, and V. Musella. 2017.
Evaluation of haematological profile in Nicastrese goats infested with helminths bred in a wild state in Calabria region (southern Italy). Large Anim. Rev.

45. **Lopreiato, V.**, C. Ceniti, F. Trimboli, E. Fratto, M. Marotta, D. Britti, and V.M. Morittu. 2017.
Evaluation of the capillary electrophoresis method for measurement of immunoglobulin concentration in ewe colostrum. J. Dairy Sci.

46. Bani, P., F.P. Cappelli, A. Minuti, V. Ficuciello, **V. Lopreiato**, P.C. Garnsworthy, and E. Trevisi. 2014.
Estimation of dry matter intake by n-alkanes in dairy cows fed TMR: Effect of dosing technique and faecal collection time. Anim. Prod. Sci.

Abstracts, Presentations, and scientific meetings

V. Lopreiato, A. Minuti, D. Britti, C. Perri, F. Piccioli-Cappelli, J.J. Loor, and E. Trevisi: *Post-calving leukocyte immune-related genes are enhanced in Simmental compared with Holstein cows.* 70° EAAP Annual Meeting 2019, Ghent, Belgium; 08/2019

V. Lopreiato, A. Minuti, D. Britti, F. Trimboli, F. Piccioli-Cappelli, J. J. Loor, E. Trevisi: *Pegbovigrastim treatment alters gene expression profiles of leukocytes in Simmental and Holstein cows after calving*. ADSA 2019, Cincinnati; 06/2019

D. N. Coleman, A. Alharthi, **V. Lopreiato**, E. Trevisi, M. Miura, Y. X. Pan, and J. J. Loor: *Choline supply during negative nutrient balance alters molecular components and intermediate metabolites in the hepatic methionine cycle and transsulfuration pathway*. ADSA 2019, Cincinnati; 06/2019

A. S. Alharthi, E. Abdel-Hamied, H. Dai, Y. Liang, **V. Lopreiato**, A. Elolimy, E. Trevisi, and J. J. Loor: *Maternal body condition score during late-pregnancy is associated with in utero development and neonatal growth of Holstein calves*. ADSA 2019, Cincinnati; 06/2019.

M. Vailati-Riboni, D. Coleman, **V. Lopreiato**, A. Alharthi, R. Bucktrout, E. Trevisi, I. Yoon, and J. J. Loor: *Mammary gland RNA-seq analysis highlights a protective effect of NutriTek supplementation on udder integrity and health during a Streptococcus uberis mastitis challenge in mid-lactating dairy cows*. ADSA 2019, Cincinnati; 06/2019.

M. Vailati-Riboni, D. Coleman, **V. Lopreiato**, A. Alharthi, R. Bucktrout, E. Trevisi, I. Yoon, and J. J. Loor: *Feeding NutriTek improves udder health and systemic response during a Streptococcus uberis mastitis challenge in mid- lactating dairy cows*. ADSA 2019, Cincinnati; 06/2019.

V. Lopreiato, D. Britti, E. Trevisi, F. Piccioli-Cappelli, M. Marotta, A. Spina, A. Minuti: *Post-weaning rumen fermentation of calves in response to weaning age and relationship with rumination time measured by the Hr-Tag rumination-monitoring system*. ASPA 2019, Sorrento, Naples; 06/2019

V. Lopreiato, A. Minuti, V.M. Morittu, C. Ceniti, F. Trimboli, E. Zappia, A. Pugliese. *Rumination time in the first week after calving influences milk quality in Simmental dairy cows*. 50th Congresso Nazionale della Società Italiana di Buiatria 2018.

V. Lopreiato, E. Trevisi, D. Britti, V. M. Morittu, J. J. Loor, and A. Minuti. *Metabolic changes in Simmental and Holstein cows after Pegbovigrastim injections during the periparturient period*. J. Dairy Sci. Vol. 101, Suppl. 2: 366. ADSA Annual Meeting, Knoxville, TN, USA; June 24-27, 2018

V. Lopreiato, D. Britti, and V. M. Morittu**.** *Precalving body condition score affects leukocytes count following Pegbovigrastim treatment in Simmental cows around calving*. **J**. Dairy Sci. Vol. 101, Suppl. 2: 223. ADSA Annual Meeting, Knoxville, TN, USA; June 24-27, 2018

V. Lopreiato, A. Minuti, E. Fratto, M. Marotta, G. Loprete, D. Britti, and V. M. Morittu. *Use of an electronic rumination-monitoring system in pre-weaned calves*. Italian Journal of Animal Science 16, Suppl. 1: 51. ASPA 22nd Congress, Perugia, Italy; June 13-16, 2017

V. Lopreiato, C. Carlotta, E. Fratto, M. Marotta, D. Britti, and V. M. Morittu. *Influence of serum γ-globulin concentration at 24 h after birth on lamb growth in natural rearing system*. Italian Journal of Animal Science 16, Suppl. 1: 198. ASPA 22nd Congress, Perugia, Italy; June 13-16, 2017

V. Lopreiato, L. Liotta, C. Ceniti, M. Marotta, E. Fratto, A. Concolino, D. Britti, and V. M. Morittu*. Effects of milk production level on milk quality in Italian Mediterranean Buffaloes*. Italian Journal of Animal Science 16, Suppl. 1: 212. ASPA 22nd Congress, Perugia, Italy; June 13-16, 2017

C. Ceniti, **V. Lopreiato**, V. M. Morittu, F. Trimboli, E. Fratto, G. Massimini, and D. Britti. *Comparision of a routine capillary electrophoresis method and single radial immunodiffusion assay to measure*

immunoglobulins in sheep whey colostrum. 29th World Buiatrics Congress, Dublin, Ireland. July 3-8, 2016

P. Bani, **V. Lopreiato**, O. Gachiuta, S. Cogrossi, and V. Ficuciello. *Estimation of dry matter intake in dairy cows fed TMR using different markers*. Italian Journal of Animal Science 14:s1 164. ASPA 21st Congress, Milan, Italy; June 9-13, 2015