

Curriculum vitae of Dott.ssa Paola Cremonesi

Dr. Paola Cremonesi is a research scientist at the Italian National Research Council of Italy (CNR), Institute of Agricultural Biology and Biotechnology from 2010. She graduated at the University of Milan and she holds a PhD in Molecular Medicine (Genomics, Proteomics and Correlated Technologies) from the University of Milan. During these years she has got experience in Microbiology and in animal Genomics, Transcriptomics and Metagenomics. Her activities range from studying genes and mechanisms that control animal productions to investigating animal and environmental microbiota, with the aim of developing molecular diagnostic tools for animal health and ensuring the food safety of animal-derived products. She was involved in several national and european projects (Interreg IVC Innovation for Welfare – FoBoS). Her work is represented in co-authorship more than 100 peer reviewed papers. H-index is 28 (Author ID 56212635100, www.scopus.com; <http://orcid.org/0000-0002-8239-5549>).

List of some selected publications (2023-2020):

1. Locatelli C, Gattolin S, Monistero V, Castiglioni B, Moroni P, Addis MF, **Cremonesi P**. Staphylococcus aureus coa gene sequence analysis can prevent misidentification of coagulase-negative strains and contribute to their control in dairy cow herds. *Front Microbiol.* 2023 May 11;14:1120305. doi: 10.3389/fmicb.2023.1120305.
2. Maisano AM, Luini M, Gazzola A, Sala L, Vezzoli F, Bertocchi L, Lorenzi V, **Cremonesi P**, Castiglioni B, Bergagna S, Scaltriti E, Bolzoni L, Ivanovic I, Romanò A, Graber HU. Staphylococcus aureus adlb gene is associated with high prevalence of intramammary infection in dairy herds of northern Italy: A cross-sectional study. *J Dairy Sci.* 2023 May;106(5):3421-3435. doi: 10.3168/jds.2022-22496.
3. Filippone Pavesi L, Pollera C, Sala G, **Cremonesi P**, Monistero V, Biscarini F, Bronzo V. Effect of the Selective Dry Cow Therapy on Udder Health and Milk Microbiota. *Antibiotics (Basel).* 2023 Jul 31;12(8):1259. doi: 10.3390/antibiotics12081259.
4. Gioia G, Severgnini M, **Cremonesi P**, Castiglioni B, Freeman J, Sipka A, Santisteban C, Wieland M, Gallardo VA, Scott JG, Moroni P, Addis MF. Genomic Characterization of Mycoplasma arginini Isolated from a Housefly on a Dairy Farm and Comparison with Isolates from Bovine Milk and Lung Tissue. *Microbiol Spectr.* 2023 Jun 15;11(3):e0301022. doi: 10.1128/spectrum.03010-22.
5. Ranilla MJ, Andrés S, Gini C, Biscarini F, Saro C, Martín A, Mateos I, López S, Giráldez FJ, Abdennebi-Najar L, Pereira D, Falleh H, Ksouri R, **Cremonesi P**, Castiglioni B, Cecilian F. Effects of Thymbra capitata essential oil on in vitro fermentation end-products and ruminal bacterial communities. *Sci Rep.* 2023 Mar 13;13(1):4153. doi: 10.1038/s41598-023-31370-9.
6. Abdel-Kafy EM, Kamel KI, Severgnini M, Morsy SHA, **Cremonesi P**, Ghoneim SS, Brecchia G, Ali NI, Abdel-Ghafar YZ, Ali WAH, Shabaan HMA. Diversity and Co-Occurrence Pattern Analysis of Cecal and Jejunal Microbiota in Two Rabbit Breeds. *Animals (Basel).* 2023 Jul 13;13(14):2294. doi: 10.3390/ani13142294.
7. Agradi S, **Cremonesi P**, Menchetti L, Balzaretti C, Severgnini M, Riva F, Castiglioni B, Draghi S, Di Giancamillo A, Castrica M, Vigo D, Modena SC, Serra V, Quattrone A, Angelucci E, Pastorelli G, Curone G, Brecchia G. Bovine Colostrum Supplementation Modulates the Intestinal Microbial Community in Rabbits. *Animals (Basel).* 2023 Mar 8;13(6):976. doi: 10.3390/ani13060976
8. **Cremonesi P**, Capra E, Turri F, Lazzari B, Chessa S, Battelli G, Colombini S, Rapetti L, Castiglioni B. Effect of Diet Enriched With Hemp Seeds on Goat Milk Fatty Acids, Transcriptome, and miRNAs. *Frontiers in Animal Science.* 2022.
9. Martín A, Giráldez FJ, **Cremonesi P**, Castiglioni B, Biscarini F, Cecilian F, Santos N, Andrés S. Dietary Administration of L-Carnitine During the Fattening Period of Early Feed Restricted Lambs

- Modifies Ruminal Fermentation but Does Not Improve Feed Efficiency. *Front Physiol.* 2022 Feb 24;13:840065. doi: 10.3389/fphys.2022.840065.
10. Curone G, Biscarini F, Cotozzolo E, Menchetti L, Dal Bosco A, Riva F, **Cremonesi P**, Agradi S, Mattioli S, Castiglioni B, Di Giancamillo A, Cartoni Mancinelli A, Draghi S, Quattrone A, Collodel G, Modena SC, Castellini C, Brecchia G. Could Dietary Supplementation with Different Sources of N-3 Polyunsaturated Fatty Acids Modify the Rabbit Gut Microbiota? *Antibiotics* (Basel). 2022 Feb 10;11(2):227. doi: 10.3390/antibiotics11020227.
 11. Morandi S, **Cremonesi P**, Arioli S, Stocco G, Silvetti T, Biscarini F, Castiglioni B, Greco C, D'Ascanio V, Mora D, Brasca M. Effect of using mycotoxin-detoxifying agents in dairy cattle feed on natural whey starter biodiversity. *J Dairy Sci.* 2022 Aug;105(8):6513-6526. doi: 10.3168/jds.2022-21793.
 12. **Cremonesi P**, Biscarini F, Castiglioni B, Sgoifo CA, Compiani R, Moroni P. Gut microbiome modifications over time when removing in-feed antibiotics from the prophylaxis of post-weaning diarrhea in piglets. *PLoS One.* 2022 Mar 7;17(3):e0262199. doi: 10.1371/journal.pone.0262199.
 13. Addis MF, Pisanu S, Monistero V, Gazzola A, Penati M, Filipe J, Di Mauro S, **Cremonesi P**, Castiglioni B, Moroni P, Pagnozzi D, Tola S, Piccinini R. Comparative secretome analysis of *Staphylococcus aureus* strains with different within-herd intramammary infection prevalence. *Virulence.* 2022 Dec;13(1):174-190. doi: 10.1080/21505594.2021.2024014.
 14. **Cremonesi P**, Garofalo C, Picozzi C, Castiglioni B, Mangieri N, Milanović V, Osimani A, Aquilanti L. Development of quantitative real-time PCR and digital droplet-PCR assays for rapid and early detection of the spoilage yeasts *Saccharomycopsis fibuligera* and *Wickerhamomyces anomalus* in bread. *Food Microbiol.* 2022 Feb;101:103894. doi: 10.1016/j.fm.2021.103894.
 15. **Cremonesi P**, Curone G, Biscarini F, Cotozzolo E, Menchetti L, Riva F, Marongiu ML, Castiglioni B, Barbato O, Munga A, Castrica M, Vigo D, Sulce M, Quattrone A, Agradi S, Brecchia G. Dietary Supplementation with Goji Berries (*Lycium barbarum*) Modulates the Microbiota of Digestive Tract and Caecal Metabolites in Rabbits. *Animals* (Basel). 2022 Jan 5;12(1):121. doi: 10.3390/ani12010121.
 16. Mallardi D, Tabasso C, Piemontese P, Morandi S, Silvetti T, Biscarini F, **Cremonesi P**, Castiglioni B, Pica V, Stuknyte M, De Noni I, Amato O, Liotto N, Mosca F, Roggero P. Inoculation of mother's own milk could personalize pasteurized donor human milk used for feeding preterm infants. *J Transl Med.* 2021 Oct 9;19(1):420. doi: 10.1186/s12967-021-03096-7.
 17. **Cremonesi P**, Severgnini M, Romanò A, Sala L, Luini M, Castiglioni B. Bovine Milk Microbiota: Comparison among Three Different DNA Extraction Protocols To Identify a Better Approach for Bacterial Analysis. *Microbiol Spectr.* 2021 Oct 31;9(2):e0037421. doi: 10.1128/Spectrum.00374-21.
 18. Turri F, Capra E, Lazzari B, **Cremonesi P**, Stella A, Pizzi F. A Combined Flow Cytometric Semen Analysis and miRNA Profiling as a Tool to Discriminate Between High- and Low-Fertility Bulls. *Front Vet Sci.* 2021 Jul 19;8:703101. doi: 10.3389/fvets.2021.703101.
 19. Penati M, Sala G, Biscarini F, Boccardo A, Bronzo V, Castiglioni B, **Cremonesi P**, Moroni P, Pravettoni D, Addis MF. Feeding Pre-weaned Calves With Waste Milk Containing Antibiotic Residues Is Related to a Higher Incidence of Diarrhea and Alterations in the Fecal Microbiota. *Front Vet Sci.* 2021 Jul 8;8:650150. doi: 10.3389/fvets.2021.650150.
 20. Monistero V, Barberio A, **Cremonesi P**, Castiglioni B, Morandi S, Lassen DCK, Astrup LB, Locatelli C, Piccinini R, Addis MF, Bronzo V, Moroni P. Genotyping and Antimicrobial Susceptibility Profiling of *Streptococcus uberis* Isolated from a Clinical Bovine Mastitis Outbreak in a Dairy Farm. *Antibiotics* (Basel). 2021 May 28;10(6):644. doi: 10.3390/antibiotics10060644.
 21. Turri F, **Cremonesi P**, Battelli G, Severgnini M, Brasca M, Gandini G, Pizzi F. High biodiversity in a limited mountain area revealed in the traditional production of Historic Rebel cheese by an integrated microbiota-lipidomic approach. *Sci Rep.* 2021 May 14;11(1):10374. doi: 10.1038/s41598-021-89959-x.

22. Capoferri R, **Cremonesi P**, Castiglioni B, Pisoni G, Roccabianca P, Riva F, Filipe J, Del Corvo M, Stella A, Williams JL, Rupp R, Moroni P. Comparison of the response of mammary gland tissue from two divergent lines of goat with high and low milk somatic cell scores to an experimental *Staphylococcus aureus* infection. *Vet Immunol Immunopathol*. 2021 Apr;234:110208. doi: 10.1016/j.vetimm.2021.110208
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26. Romanò A, Gazzola A, Bianchini V, Cortimiglia C, Maisano AM, **Cremonesi P**, Graber HU, Vezzoli F, Luini M. *Staphylococcus aureus* From Goats Are Genetically Heterogeneous and Distinct to Bovine Ones. *Front Vet Sci*. 2020 Sep 9;7:628. doi: 10.3389/fvets.2020.00628.
27. Biscarini F, **Cremonesi P**, Castiglioni B, Stella A, Bronzo V, Locatelli C, Moroni P. A Randomized Controlled Trial of Teat-Sealant and Antibiotic Dry-Cow Treatments for Mastitis Prevention Shows Similar Effect on the Healthy Milk Microbiome. *Front Vet Sci*. 2020 Sep 2;7:581. doi: 10.3389/fvets.2020.00581.
28. Bronzo V, Lopreiato V, Riva F, Amadori M, Curone G, Addis MF, **Cremonesi P**, Moroni P, Trevisi E, Castiglioni B. The Role of Innate Immune Response and Microbiome in Resilience of Dairy Cattle to Disease: The Mastitis Model. *Animals (Basel)*. 2020 Aug 11;10(8):1397. doi: 10.3390/ani10081397.
29. Gazzola A, Maisano AM, Bianchini V, Vezzoli F, Romanò A, Graber HU, **Cremonesi P**, Zanardi G, Cappa V, Luini M. Short communication: Characterization of *Staphylococcus aureus* from bulk tank milk of dairy cattle in Lombardy (northern Italy). *J Dairy Sci*. 2020 Mar;103(3):2685- 2692. doi: 10.3168/jds.2019-17181.
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