CV

Matteo Cuccato, Este, April 16th, 1993

Present position (since December 2023) Postdoctoral researcher in Veterinary Pharmacology and Toxicology, Dept. of Veterinary Sciences – University of Torino (UNITO)

EDUCATION, ACADEMIC QUALIFICATIONS AND DIPLOMAS

July 2018 Degree in Veterinary Medicine – University of Padua (UNIPD), Italy, with full marks. Thesis title: Detection and characterization of β-lactamases producers Escherichia coli in broiler.
November 2018 License to practice veterinary medicine, UNIPD
2019-2023 PhD student in Veterinary Sciences for Animal Health and Food Safety Dept. of Veterinary Sciences, UNITO.
July 2023 Doctor of Philosophy (PhD) in Veterinary Sciences for Animal Health and Food Safety Dept. of Veterinary Sciences, UNITO. Thesis title: Application of NGS as a new approach to study antimicrobial effects on farm animals
2023 Post-doctoral Fellowship at Dept. of Veterinary Sciences, UNITO. Research project: Evaluation of *Actinobacillus pleuropneumoniae* infections in pigs by means of lung score and molecular biology investigations.

PUBLICATIONS

Author or co-Author of 29 scientific publications (h-index = 3):
- 8 full articles on international indexed journals with referee
- 2 conference proceedings on indexed journals
- 19 national/international congress abstracts

FULL LIST OF ARTICLES ON INTERNATIONAL INDEXED JOURNALS

1. Cuccato M, Bertuglia A, Divari S, Brambilla E, Grieco V, Bollo E, Scaglione FE.
"Case report: Findings in ovaries development from an aborted equine fetus"
Frontiers in Veterinary Science, 2024. *Article in press*.
doi.org/10.3389/fvets.2024.1275220

2. Cuccato M, Rubiola S, Rossi L, Piga S, Scaglione FE.
"Case-report: Massive infection by Cysticercus longicollis in a captive Lemur catta from Italy"
Frontiers in Veterinary Science, 2023. 10:1288451.
doi.org/10.3389/fvets.2023.1288451

3. Leroux C., Cuccato M, Pawlowski K, Cannizzo FT, Sacchi P, Pires JAA, Faulconnier Y.
"Milk fat miRNome changes in response to LPS challenge in Holstein cows."
Veterinary Research, 54, 111 (2023).
doi.org/10.1186/s13567-023-01231-4

4. Cuccato M, Divari S, Sacchi P, Girolami F, Cannizzo FT.
"MALDI-TOF mass spectrometry profiling of bovine skim milk for subclinical mastitis detection." Frontiers in Veterinary Science, 2022. 9:1009928. doi:
10.3389/fvets.2022.1009928

5. Laconi A, Tolosi R, Mughini-Gras L, Cuccato M, Cannizzo FT, Piccirillo A. "Amoxicillin and thiamphenicol treatments may influence the co-selection of resistance genes in the chicken gut microbiota." Scientific Reports, 2022. 12:20413. doi: 10.1038/s41598-022-24927-7

6. Divari S, Cuccato M, Fanelli A, Cannizzo FT. "Development of a droplet digital PCR assay to detect illicit glucocorticoid administration in bovine." Plos One, 2022. 17(7): e0271613. doi: 10.1371/journal.pone.0271613

7. Cuccato M, Scaglione FE, Centelleghe C, Divari S, Biolatti B, Pregel P, Cannizzo FT. "Assessment of Antimicrobial Effects on Broiler Gut Barrier Through Histopathology and Immunohistochemistry of Tight-Junction Proteins." Frontiers in Veterinary Science, 2022. 9:830073. doi: 10.3389/fvets.2022.830073

8. Cuccato M, Rubiola S, Giannuzzi D, Grego E, Pregel P, Divari S, Cannizzo FT. "16S rRNA Sequencing Analysis of the Gut Microbiota in Broiler Chickens Prophylactically Administered with Antimicrobial Agents" Antibiotics, 2021; 10(2): 146. doi: 10.3390/antibiotics10020146

RESEARCH TOPICS

- Evaluation of toxicity and transcriptional modifications induced by drugs and contaminants in animals (in vitro and in vivo)
- In vitro study of the metabolic fate of drugs, additives and contaminants
- Identification of biomarkers of illicit antimicrobial treatments and of exposure to environmental contaminants in food-producing species, by means of biomolecular approaches (proteomics and genomics).
- Evaluation of oxidative stress and use of natural antioxidants in veterinary medicine.
- Interaction between gut microbiota, antimicrobials and host in major domestic species.
- Identification of biomarkers for bovine mastitis detection and the role of microRNAs and extracellular vesicles in the development of the pathology.

SCIENTIFIC ORGANIZATIONS

- Italian Society of Veterinary Pharmacology and Toxicology (SIFTVet) since 2024.
- Italian Society of Veterinary Pathology (AIPVet) from 2020 to 2023.

OTHER SCIENTIFIC ACTIVITIES

Reviewer activity

- *BMC Veterinary Research, Veterinaria Italiana.*

Academic assignments and collegiate bodies relevant for research

- Component of the Public Engagement and Third Mission Commission of the Dept. of Veterinary Sciences – University of Torino

Grugliasco, 7th May 2024