

CURRICULIM VITAE

FRANCESCA ALLEMANNO

Info and Contacts

SSD: VET/02 – Veterinary Physiology
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Education

Ph.D. in Veterinary Sciences for Animal Health and Food Safety

University of Studies of Turin | 11/2024 – ongoing

Supervisor: Dr. Eugenio Martignani

Advanced Course in Diagnostic Molecular Pathology (6ZT)

University of Studies of Milan | 04/15/2022 – 10/14/2022

Master's Degree in Veterinary Biotechnological Sciences (LM-09)

University of Studies of Milan | *Graduated* on 10/13/2021 | Final Grade 109/110

Master's Thesis: "Analysis of coinfection with Chronic Bee Paralysis Virus and *Nosema ceranae* in *Apis mellifera* through molecular diagnostics"

Supervisor: Prof. Michele Mortarino

Bachelor's Degree in Animal Productions and Husbandry of Livestock and Wildlife (L-38)

University of Studies of Turin | *Graduated* on 07/18/2019 | Final Grade 100/110

Bachelor's Thesis: "Using of molecular coancestry in the genetic management of small breeding populations"

Supervisor: Prof. Dominga Soglia

Professional Experience

Ph.D. Student

11/2024 – ongoing

University of Studies of Turin, Department of Veterinary Sciences (DSV). *Laboratory of Veterinary Physiology* | *Supervisor:* Dr. Eugenio Martignani

Research Fellow

04/2024 – 09/2024 (6 months)

Italian National Research Council (CNR), Water Research Institute (IRSA). *Molecular Ecology Group (MEG)* | *Supervisor:* Dr. Andrea Di Cesare

PRIN Project: "FUTURE: a warmer Future world: effects on plankton communities and pathogens in mediterranean vulnerable Ecosystems"

- Freshwater, Sediment and leaf sampling,
- Zooplankton identification at stereo microscope,
- DNA extraction with commercial kits (from zooplankton and bacteria isolated from freshwater)
- Simplex/touchdown/nested PCR assays' design and performance,
- Electrophoresis on agarose gel for PCR products analysis,
- RT-PCR (Antibiotic Resistance Genes' detection),
- Sanger Sequencing Data Analysis for species identification (FinchTV, Mesquite, BLAST, MAFFT, PhyML, FigTree),
- PhytoPAM (Evaluation of Phytoplankton's Photosynthetic Performance),

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Research Fellow

01/2024 – 03/2024 (3 months)

University of Studies of Turin, Department of Veterinary Sciences (DSV). *Laboratory of Animal Genetics* | *Supervisor*: Prof. Dominga Soglia

Project: “MIPoL: Milanino: una razza di Pollo Lombarda da conservare e diffondere sul territorio”

- DNA extraction with commercial kits (from poultry feathers, blood, meat),
- Simplex/Multiplex PCR assays' design and performance,
- Capillary electrophoresis for STRs markers analysis,
- Electrophoresis on agarose gel for PCR products analysis,
- Centesimal Analysis of poultry meat samples (fresh and lyophilized),
- Results Analysis (Genemapper, GenAIEx, RStudio),
- Routine maintenance of laboratory equipment.

Research Fellow

05/2022 – 11/2023 (19 months)

Spallanzani Institute (IS), *Laboratory of Molecular Genetics*. Rivolta d'Adda (CR), Italy |

Supervisor: Dr. Graziella Bongioni

Project: “GENAPIS”

- DNA extraction with commercial kits, conventional methods and automated extractor (from bees, honey, plants, blood and semen),
- Multiplex PCR assays' design and performance,
- Capillary electrophoresis for STRs markers analysis,
- Electrophoresis on agarose gel and on a chip for PCR products analysis,
- Sanger Sequencing,
- RT-PCR (SNPs' genotyping),
- Results analysis (Genemapper, GenAIEx, BioEdit, RStudio),
- Routine maintenance of laboratory equipment.

Undergraduate Trainee - Master's Thesis

03/2021 - 10/2021 (8 months)

University of Studies of Milan, Department of Veterinary and Animal Science (DIVAS).

Laboratory of Parasitology | *Supervisor*: Prof. Michele Mortarino

- Sampling of bees in apiaries,
- Detection of *Nosema spp* spores at light microscopy,
- mRNA extraction with commercial kits (from bees) and retro-transcription,
- Primers and TaqMan probes design,
- RT-qPCR (*Nosema ceranae* and CBPV's detection),
- Results Analysis.

Undergraduate Trainee - Bachelor's Thesis

01/2019 - 07/2019 (7 months)

University of Studies of Turin, Department of Veterinary Sciences (DSV). *Laboratory of Animal Genetics* | *Supervisor*: Prof. Dominga Soglia

- DNA extraction with commercial kits (from chicken feathers and blood),
- Multiplex PCR,
- Capillary electrophoresis for STRs markers analysis,
- Results Analysis (Genemapper, GenAIEx, RStudio).

Languages

Italian	C2 (Native language)
English	B2 (First Certificate English, 06/2014)
French	B1 (Diplôme d'études en langue française, 05/2013)
Spanish	B1
Japanese	A2

CURRICULUM VITAE

- Professional Licenses**
- Professional License as Biologist (Sec.A of the Italian Professional Order of Biologists) (University of Studies of Parma, session n. 1 of year 2022)
 - Artificial Insemination Technician for Equine Species (Piedmont Code: TO1258L)
- Courses, Trainings & Seminars**
- Online Course “Study of microbial communities in freshwater: from isolation to -omics” (SUS-MIRRI.IT) (11h, 04/22-24/2024)
 - Online Course “Advanced Apiculture, for the protection of bees and beekeepers” (Foundation for Zooprohylaxis and Zootechnical Initiatives) (14h, final test on 04/20/2023)
 - Training course for QuantStudio™ 6 Pro (ThermoFisher Scientific) (12/20/2022)
 - Seminars’ Cycle “Insight into statistics, management and the ability of tracing an experimental design” (University of Milan) (03/17-31/2021)
 - Online Course “Introductory Course to Animal Experimentation” (University of Milan) (02/09/2021)
 - Workshop “Scientific Communication” (University of Milan) (05/15/2020)
- Publications**
- Meroni G., Tsikopoulos A., Tsikopoulos K., **Allemanno F.**, Martino P. A., Soares Filipe J. F. A Journey into Animal Models of Human Osteomyelitis: A Review. *Microorganisms* 2022, 10, 1135. <https://doi.org/10.3390/microorganisms10061135>
- Posters**
- Cherchi M., Padedda B.M., Di Cesare A., **Allemanno F.**, Casiddu P., Kamburska L., Lugliè A., Manca B., Piscia R., Pittalis C., Rosati I., Sabatino R., Satta C.T., Titocci J., Pulina S. Effects of experimental heatwaves on plankton communities from different Mediterranean aquatic ecosystems. Poster Presentation, XXXIII Congress of the Italian Society of Ecology (S.It.E), Rome (IT), page 17, 23-26 September 2024. https://www.congresso.ecologia.it/wp-content/uploads/2024/09/XXXIII_SItE_PROGRAMMA_Completo.pdf
 - Pittalis C., Pulina S., Di Cesare A., **Allemanno F.**, Casiddu P., Cherchi M., Kamburska L., Lugliè A., Manca B., Piscia R., Rosati I., Sabatino R., Satta C.T., Titocci J., Padedda B.M. Warming effects on plankton communities from Mediterranean freshwater and coastal lagoon ecosystems. Poster Presentation, XXXIII Congress of the Italian Society of Ecology (S.It.E), Rome (IT), page 18, 23-26 September 2024. https://www.congresso.ecologia.it/wp-content/uploads/2024/09/XXXIII_SItE_PROGRAMMA_Completo.pdf
 - Cambuli C., **Allemanno F.**, Bongioni G., Galli A., Cenadelli S., Montedoro M. Sequencing of the Complementary Sex Determiner (CSD) gene in *Apis mellifera*. Poster Presentation, VII International Congress on Domestic Animal Breeding, Genetics and Husbandry-23 (ICABGEH-23), Krakow (PL), page 4, 18-20 September 2023. <https://dergipark.org.tr/tr/download/journal-file/28972>
 - **Allemanno F.**, Rizzi R., Villa L., Mortarino M. A Reverse Transcriptase-Quantitative PCR Study on Honeybees Co-infected With *Nosema ceranae* and Chronic Bee Paralysis Virus. Poster Presentation, XXXII Congress of the Italian Society of Parasitology (SolPa), Naples (IT), page 162, 27-30 June 2022. https://congresso2022.soipa.it/wp-content/uploads/2022/07/Volume-Atti-XXXII-SOIPA_DEF.pdf
- Conferences Attendance**
- 19th International Symposium of Microbial Ecology (ISME19). Cape Town, South Africa, 18-23 August 2024
 - Dairy at Guelph: Annual Research Showcase. Elora, (ON) Canada, 2 November 2023.
- Third Mission**
- Cambuli C., **Allemanno F.**, Bongioni G., Cenadelli S., Montedoro M. (2022). GENAPIS, un Progetto per l’Apicoltura Italiana. *Apinsieme: National Journal of Apiculture*, year VIII n.7, 20-25. <https://www.apinsieme.it/wp/2022/07/05/anteprima-rivista-nazionale-di-apicoltura-luglio-agosto-2022/>

Turin, 11/13/2024

Francesca Allemanno