

DANIELE FRIGERIO

10.03.2002 Pavia, Italy

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CURRENT POSITION

PhD Student
University of Pavia
Institute of Molecular Genetics "Luca Cavalli Sforza" - National Research Council (CNR)
Program: Genetics, Molecular Biololy and Cellular Biology.

EDUCATION

MASTER DEGREE
University of Pavia 2024 - 2026
Molecular Biology and Genetics curriculum Life Sciences - LM 6
Final Grade: 110/110 cum laude

BACHELOR DEGREE
University of Pavia 2021 - 2024
Biological Science - L13
Final Grade: 110/110 cum laude

RESEARCH EXPERIENCE

MASTER DEGREE'S TRAINEE

Institute of Molecular Genetics - CNR Nov 2024 - Sept 2026

Supervisor: Dr. Claudia Ghigna
Co-supervisor: Dr. Anna Di Matteo
Thesis: : **Characterization of a novel alternative splicing variant of the ERK5 kinase (ΔN-ERK5) in physiological and cancer contexts.**

BACHELOR DEGREE'S TRAINEE

University of Pavia Sept 2023 - Sept 2024
Supervisor: Professor Anna Olivieri
Thesis: **Analysis of Mitochondrial Genome Variability of *Ixodes ricinus* in Finnish Samples**

OTHER EXPERIENCE

DESIGNED AND FACILITATED BIODIVERSITY WORKSHOPS FOR SCHOOLS

Istituto Maddalena di Canossa Pavia Jan 2024 - Jan 2025

Designed and implemented educational workshops focused on the Ticino River and biodiversity, delivering interactive lessons to elementary and middle school students of all grade levels. Professionally developed dedicated educational materials aimed at fostering active student participation, sparking curiosity, and raising environmental awareness, with a specific focus on the conservation of the Parco Del Ticino.

TECHNICAL SKILLS AND COMPETENCES

MOLECULAR AND CELLULAR BIOLOGY:
Maintenance and treatment of murine and human tumor cell lines (HeLa, LL/2, 5637). Cellular transfections of human cell lines using vectors. DNA, RNA and protein extraction, purification and quantification; Illumina DNA library preparation. Polymerase Chain Reaction (PCR), Retro-Transcription (RT) - Real Time PCR (RT-qPCR). Agarose and acrylamide gel preparation, electrophoresis (SDS-Page) and Western Blotting. Cloning, plasmid purification. Immunofluorescence and optical microscopy analysis.

INFORMATICS, BIOINFORMATICS AND STATISTICS:
Microsoft Office, ImageJ, ImageLab, Primer design tools, NCBI, Ensembl genome browser, BLAST, Uniprot, MEGA, GraphPad Prism 9.

LANGUAGE:
Italian ; English (B2) .

PUBLICATIONS

- Alessandro Nota , C. Croci, S. Melis , E. Pelloni , E. Moroni, V. Agostini, E. Deagostino, **D. Frigerio**, D. Pistone, R. Di Gerlando, C. Fiorini, L. Caporali, V. Carelli, M. Castelli, D. Sassera, A. Olivieri, C. Bandi, A. Torroni. *Tracing the evolutionary history of Ixodes ticks in the context of environmental change: a mitogenome perspective.* XVII FISV Congress, Padova, September 18-20 2024. [poster presentation]

PHD INFORMATIONS

Title: Characterization of a novel alterntive splicing variant of the ERK5 kinase (ΔN-ERK5) in physiological and cancer contexts

S**upervisor**: Dr. Claudia Ghigna

Co-supervisor: Prof. Natalia Pellegata

DATE: 19.10.2026