Riccardo Ciapparelli

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PhD project:

Supervisor: Prof.ssa Natalia Simona Pellegata

Co-supervisor: Prof.ssa Donata Orioli

EDUCATION

October 2026 – ongoing : Ph.D. Student in Genetics, Molecular and Cellular Biology, University of Pavia.

2024-2026: Master's degree in Experimental & Applied Biology, 110 cum laude, University of Pavia.

2021-2024: Bachelor's degree in biotechnology, 103/110, University of Pavia.

2016-2021: Scientific high school diploma, Tirinnanzi institute, Legnano (Mi).

RESEARCH EXPERIENCE

2024: Research internship in parasitology and molecular and cellular biology. Department of Chemistry, Biology and Biotechnology, University of Perugia.

Dissertation title: "A Novel PQ-Loop Protein in Toxoplasma gondii Involved in the C-Mannosylation Process: TgPQ". Supervisors: Manlio Di Cristina and Davide Sassera.

2025-2026: Research internship in Forensic genetics. Department of Public Health, Experimental and Forensic Medicine, Unit of Legal Medicine and Forensic Sciences "A. Fornari", University of Pavia.

Dissertation title : "Optimization of a DNA extraction method from formalin-fixed paraffin-embedded (FFPE) autopsy tissues for forensic purposes using a Design of Experiments (DoE) approach". Supervisor: Carlo previderè.

TECHNICAL SKILLS AND COMPETENCES

Molecular biology techniques:

- PCR (end-point, Real-Time PCR, RT-PCR);
- Capillary electrophoresis;
- Agarose gel electrophoresis;
- DNA/RNA extraction from cell pellets, supernatant, plasma and tissues;
- Protein extraction and quantification via BCA; Western Blot; Immunofluorescence;
- Molecular cloning and genome manipulation (CRISPR-Cas-9).

Cell Biology:

- Maintenance of mammalian cell lines and primary cultures (2D and 3D; adherent and suspension), co-cultures;
- Microscopy (brightfield and fluorescence);
- Drug treatment assays;
- Cell trasfection and infection with lentivirus

Data Analysis:

- Basic knowledge of bioinformatics (BASH and R programming)
- Statistical analysis skills (GraphPad Prism, ImageJ).

PARTECIPATION TO CONGESS

- **2024:** 4th Global Virtual Symposium on Toxoplasmosis (TOXO-2024);
- **2026:** XII Congresso Nazionale GIPF, Pavia.

COURSES

- Department of Biology and Biotechnology "Lazzaro Spallanzani" (DBB), BSL2/ACL2+ training course.

LANGUAGES

- Italian: Native Speaker
- English: B2

REFERENCES

- Carlo Previderè, Department of Public Health, Experimental and Forensic Medicine, Unit of Legal Medicine and Forensic Sciences "A. Fornari", University of Pavia;
- Manlio Di Cristina, Department of Chemistry, Biology and Biotechnology, University of Perugia.