**CURRICULUM VITAE ET STUDIORUM: Filippo Bertolasi**



**Personal data:** Born in Mantova (MN), date 01-02-2000
**Present Position**: PhD Student
**Address**: Department of Life Sciences, Via Campi 213/D, Modena.
Email: filippo.bertolasi@unimore.it
ORCID ID: 0009-0009-2693-653X

## EDUCATION

- **October 2024 Master's Degree in Experimental and Applied Biology** with a thesis entitled 'Tissue-Specific Transcriptome Analysis of Pomacea canaliculata Using Nanopore Sequencing: Hypervariability and an AI-Based Approach', under the supervision of Prof. Nicola Franchi

- **October 2022 Bachelor's Degree in Biological Sciences** with a thesis entitled 'Molecular Characterization and Tissue-Specific Localization of a C3-Like Transcript in the Gastropod *Pomacea canaliculata*', under the supervision of Prof. Nicola Franchi

## RESEARCH PROJECTS

- NEUROSELF – Complement regulators as molecular signatures of self in the aging nervous system. Role: participant. PRD-D Linea 1 2026
- PNRR "CN_5 – Biodiversità – NBFC, Spoke 3: Assessing and monitoring terrestrial and freshwater biodiversity and its evolution: from taxonomy to genomics and citizen science" – UE founding – NextGenerationEU). February 2025 – February 2026. Role: Research Assistant

## POSTER PRESENTATIONS as presenting Author

- Bioinformatic pipeline for the extraction of molecular markers from Nanopore transcriptomic data in *Pomacea canaliculata*. **Bertolasi F.**, GEI-SIBSC 70th edition congress, 10-13 June 2025.

## BRIEF DESCRIPTION OF THE RESEARCH ACTIVITY

My research focuses on the molecular and evolutionary mechanisms of the complement system and its involvement in nervous system development, regeneration, and remodeling. Using *Pomacea canaliculata* as a model organism, I investigate the role of complement regulatory proteins, particularly those containing CCP (Complement Control Protein) domains, in neuronal selection and axonal pruning. My work combines bioinformatic analyses and transcriptomic profiling with molecular biology techniques and wet-lab experimental approaches to validate computational findings and investigate gene expression and protein function across different tissues.

## LIST OF SCIENTIFIC PUBLICATIONS ON INTERNATIONAL JOURNALS WITH IF.

1. **Bertolasi F.**, Sacchi S., Vezzi A., Sales G., Ferri A., Malagoli D., Franchi N. (2026). ***C3 in Pomacea canaliculata: a conserved effector with developmental and immune roles*.** Frontiers in Cellular and Infection Microbiology. Accepted for publication (24 February 2026). DOI: 10.3389/fcimb.2026.1782659

## BOOK CHAPTERS AND MANUSCRIPTS IN JOURNALS WITHOUT IF.

1. **Bertolasi F.**, Sacchi S., Vezzi A., Sales G., Ferri A., Malagoli D., Franchi N. (2026). **Controlling complement from immunity to development.** In: Proceedings of the 71st Congress of the Italian Embryological Group – Italian Society of Development and Cell

Biology (GEI-SIBSC), Bari, 9-12 June 2026. European Journal of Histochemistry, 70(s1): 32.

2. **Bertolasi F.**, Malagoli D., Franchi N. (2025). **Bioinformatic pipeline for the extraction of molecular markers from Nanopore transcriptomic data in *Pomacea canaliculata*.** In: Proceedings of the 70th Congress of the Italian Embryological Group – Italian Society of Development and Cell Biology (GEI-SIBSC), Modena, 10–13 June 2025. European Journal of Histochemistry, 69(s1): 32.
3. Franchi N., **Bertolasi F.**, Sales G., Vezzi A., Sacchi S., Malagoli D. (2025). **Synapse or survive? Complement regulators in the gastropod ganglion transcriptome reveal conserved mechanisms of neural pruning.** In: Proceedings of the 70th Congress of the Italian Embryological Group – Italian Society of Development and Cell Biology (GEI-SIBSC), Modena, 10–13 June 2025. European Journal of Histochemistry, 69(s1): 10.

*Updated on 30/10/2026*