

Enrico Pelloni, PhD student

*Human and Animal Population Genomics Lab. (Prof. A. Olivieri, Prof. A. Torroni)
Biology and Biotechnology Dept. "L. Spallanzani"
University of Pavia, via Ferrata 9, 27100 Pavia, Italy*

Project title: “Modern and ancient DNA variation in human and animal populations”

Supervisor: Prof. Antonio Torroni

Reviewer: Prof. Alessandro Achilli

Enrico Pelloni

Place and date of birth: San Giovanni in Persiceto (Bologna), March 25th, 1992

Email: enrico.pelloni01@universitadipavia.it

Education

- Oct 2022 – Ongoing **PhD in Genetics, Molecular and Cellular Biology, XXXVIII cycle**
Università degli studi di Pavia, IT
- Feb 2021 **License to Practice Biology**
University of Parma, IT
- Oct 2016 – Mar 2019 **Master's Degree in Medical Biotechnology** (Second Cycle degree programme),
Alma Mater Studiorum-University of Bologna, IT
- Oct 2012 – Nov 2015 **Bachelor's Degree in Biomedical Laboratory Techniques** (First Cycle degree programme),
Alma Mater Studiorum-University of Bologna, IT

Research Experiences

- Mar 2018 - Mar 2019 **Undergraduate student**
Medical Genetics Unit, Department of Medical and Surgical Sciences- DIMEC
University of Bologna, S. Orsola - Malpighi Hospital
Thesis project: "*Genetic and functional studies in severe intestinal dysmotilities*"
- Mar 2015 - Nov 2015 **Undergraduate student**
Microbiology Unit, Department of Diagnostic and Prevention Medicine
University of Bologna, S. Orsola - Malpighi Hospital
Thesis project: "*p82: proteolytic fragment of the major autotransporter of Chlamydia trachomatis. Expression in eukaryotic cells*"

Professional Experiences related to the Academic career

- Feb 2022 – Oct 2022 **Research Assistant**
BRAVHOLab: Bologna Radiocarbon laboratory devoted to Human Evolution
Department of Chemistry G. Ciamician
Director: Prof. Sahra Talamo
Alma Mater Studiorum-University of Bologna, IT
- Jan 2013 - Mar 2015 **Undergraduate curricular internship as Biomedical Laboratory Technician**
Maggiore - Bellaria and S. Orsola - Malpighi Hospital
Experimental Zooprophyllactic Institute of Lombardia and Emilia – Romagna, IT

Other Professional Experiences

- Mar 2021 – Jul 2021 Professional Biologist, Swabber and Regional Lab Coordinator for COVID-19 detection
Gea Event, for Ferrari (LifeBrain, Modena) and Disney (Prenetics, Sardinia)
- Sep 2019 – Ongoing Licensed Organizer & Event Manager TEDxCastelfrancoEmilia

Key skills acquired during my academic experiences

Patients' biological samples handling
Extraction of Nucleic acids from different biological matrices (blood, tissue, bacteria)
Quantification, amplification, and revelation of nucleic acids
Analysis and editing of sequences of nucleotides through software, to create specific plasmids
Preparation of biological tissues for sample staining, immunostaining, and immunofluorescence
Preparation of personalized antitumoral therapies and mixtures for parenteral administration
Manual bacteria seeding and arrangement of specific antibiograms
Immunoenzymatic methods (ELISA), immunofixation and hemagglutination (Coombs test)
Cell and bacterial cultures farming, transformation of competent bacteria through heat shock and electroporation
Mammalian cell culture and transfection through lipofectamine technique.
Screening of genetic variants through NGS panel
Plasmid manipulation
Preparation of protein lysates through sonication and immunoblotting
Electromobility Shift Assay (EMSA)
Use of informatic tools to analyze, edit and design genetic sequences
HPLC and mass spectrometry
Extraction and purification of archeological organic samples for radiocarbon dating
Elemental analysis of pretreated archeological organic samples via Elemental Analyzer
Graphitization of combusted samples for radiocarbon dating

Key skills acquired during my other experiences

Event Management
Photo editing
Public speaking and networking
Report COVID-19 screening via online database

Languages known

Italian (native)
English B2
Spanish B1