



Greta Bellinzona



EDUCATION

EMAIL

gretabellinzona@gmail.com

DATE OF BIRTH

06/06/1996

NATIONALITY

Italian

LANGUAGES

Italian: native language

English: B2

- October 2021
PhD in Genetics, Molecular and Cellular Biology – Cycle XXXVII, University of Pavia (Italy)
Supervisor: Prof. Davide Sassera
- October 2018 – July 2020
M. Sc. in Advanced Biotechnology, University of Pavia (Italy)
Evaluation: 110/110 cum laude
Supervisor: Prof. Davide Sassera. Cosupervisor: Dr. Stefano Gaiarsa.
Thesis: Analysis of the interaction between genomic plasticity and insertion sequences in bacterial pathogens, a bioinformatic approach
- October 2015 – September 2018
B.Sc. in Biotechnology, University of Pavia (Italy)
Evaluation: 109/110
Supervisor: Prof. Davide Sassera. Cosupervisor: Dr. Stefano Gaiarsa.
Thesis: Bacterial typing systems: the case of Multilocus Sequence Typing of *Acinetobacter baumannii*



WORK EXPERIENCE

- January 2021 – July 2021
University of Pavia, Parassitology Lab. (supervisor: Prof. Davide Sassera) collaborating with Fondazione IRCCS Policlinico S. Matteo
Granted Fellow
 - Development of data analysis pipelines for understanding genomic diversity in some of the most common bacterial nosocomial pathogens.
 - Genome assembly of bacterial pathogens with mixed technologies (Illumina, Oxford Nanopore).



SKILLS

Bioinformatics

- Management of DNA, RNA and proteins databases and analysis by scripting in Python, R and bash
- Sequencing data analysis NGS (Illumina) and TGS (Oxford Nanopore): assembly, short reads mapping, long reads mapping, annotation, gene and SNP calling
- Phylogeny
- Software for visualization and analysis of molecular structures (PyMol, RasMol, Chimera)

Computer

- Operative systems: Linux (Ubuntu), MacOS, Windows
- Programming in Python (advanced), R (intermediate), bash (basic) and SQL (basic).
- Nexflow usage, learning how to develop pipelines.
- Ability to work on HPC cluster

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October 2021

Abstracts:

Michela Baccalà, Greta Petazzoni, Greta **Bellinzona**, Stefano Gaiarsa, Cristina Merla, Aurora Piazza, Marta Corbella, Bianca Mariani, Piero Marone, Patrizia Cambieri, "*The phantom menace: silent spread of a colistin resistance gene in a Neonatal Intensive Care Unit in Northern Italy*", ECCMID 2021.