



Elena Vinerbi

Nationality: Italian **Date of birth:** 21/07/1992 **Email address:** elena.vinerbi@live.it

ABOUT ME

My interests focus on metagenomics, genetics, evolutionary biology and bioinformatics. During my academic training I learned bioinformatic techniques that allow to study microbiome, genomic data and GWAS methods.

WORK EXPERIENCE

Research grant

Institute of Genetic and Biomedical Research (IRGB), National Research Council (CNR) [11/2023 – Current]

City: Cagliari
Country: Italy

I am a member of the SEMICYCLE PROJECT team and I study the vaginal and intestinal microbiome, with the aim of covering the influences of the microbiome for cardiometabolic functions. In particular, I deal with the bioinformatic analysis.

Internship in bioinformatics

Polo d'Innovazione di Genomica, Genetica e Biologia [11/2022 – 06/2023]

City: Siena (SI)
Country: Italy

Development of bioinformatic pipelines for Shallow WGS data. I have dealt with the analysis of genotype imputation using specific bioinformatic tools (Plink, BWA-mem, Samtools etc.).

Internship for master's degree in Conservation and Evolution (LM-6)

Unit of molecular anthropology at the Department of Biology, University of Pisa [02/2020 – 01/2022]

Country: Italy

I studied the human oral microbiota in the Italian and sub-Saharan population, to assess whether some endogenous and exogenous factors (ethnicity, sex, diet, etc.) determined a change in the composition of the microbiota.

To characterize the microbiota I used the minion sequencing device with nanopore technology.

EDUCATION AND TRAINING

II level University Master Course in "Bioinformatics and data science"

University of the studies of Siena [04/2022 – 06/2023]

City: Siena (SI)
Country: Italy

Field(s) of study: Bioinformatic

Thesis: Development bioinformatic pipeline for Shallow WGS data

Master's Degree in Conservation and Evolution (LM-6)

University of Pisa [09/2018 – 01/2022]

City: Pisa (PI)
Country: Italy

Final grade: 105/110

Thesis: Characterization of human salivary microbiota through Oxford Nanopore sequencing technology (ONT)

Bachelor I level in Biological Sciences

University of the studies of Perugia [09/2014 - 04/2018]

City: Perugia (PG)

Country: Italy

Final grade: 102/110

Thesis: Mitochondrial mutations: a case study.

PUBLICATIONS

The influence of endogenous factors on the composition of the human salivary microbiota (in press)

[2022]

XXIV Congress of the Italian Anthropological Association (September 2022)

Poster related to the project on the characterization of the human salivary microbiota through the minion device (Oxford Nanopore).

Possible endogenous and exogenous factors (ethnicity, sex, genetics, and capsaicin sensitivity) that may determine changes in human salivary microbiota have been analysed.

LANGUAGE SKILLS

Mother tongue(s): **Italian**

Other language(s):

English

LISTENING B1 READING B1 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user