



Andrea Ninni

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Skills

- Single-cell RNAseq analysis
- Bulk RNAseq analysis
- Linux and Bash programming
- R and Python programming
- Molecular Dynamics
- Web programming (HTML, CSS, PHP, SQL)

Interests

- Genomic data analysis
- Machine Learning in biology
- ATAC-seq and ChIP-seq analysis
- Docking and Virtual Screening

Certificates

- Virtual Applied Data Science Training Institute Program (VADSTI) - SPRING 2021
- High Performance Bioinformatics (CINECA) - December 2022

EDUCATION

2022-Now. **PhD, in Evolutionary Biology and Ecology**

Universita degli studi di Roma "Tor Vergata"

2020-2022. **Master Degree, LM Bioinformatics**

Universita degli studi di Roma "Tor Vergata"

2016-2020. **Bachelor Degree, LT Biology**

Universita degli studi di Roma "Tor Vergata"

RESEARCH EXPERIENCE

Oct. 2021 - Jul. 2022 **Undergraduate Researcher**

Advisor: Mattia Falconi and Andrea Novelletto

Undergraduate research experience focused on learning genomic data analysis. Creation of the pipeline of variant calling applied on genomic data of *Caretta caretta* and structural modelling of mitochondrial subunits

Nov.2022 - Now **PhD student**

Supervisor: Daniele Lettieri Barbato

Adipose tissue adaptation to environmental pressure - Single cell analysis of adipose tissue and creation of new R package analysis tool

PUBBLICATIONS

Cell Reports **Lipid-Associated Macrophages Reshape BAT Cell Identity in Obesity**

Marine Biology **Whole mitochondrial genome sequencing provides new insights into the phylogeography of the Mediterranean loggerhead sea turtle** (Under Review)

Molecular Metabolism **Lipocalin-2 promotes adipose-macrophage interactions to shape peripheral and central inflammatory responses in experimental autoimmune encephalomyelitis**

PRESENTATIONS

May 2023 **UCL-Rome meeting** - Bridging the gap between experimentalists, biocurators and analysis tool providers