




## Contact information

 3282999622

 russomaddalena0@gmail.com

## Languages

**Italian** Native language

**English** Intermediate

**Spanish** Intermediate

# Maddalena Russo

Medical Biotechnologist

## Work experience

**2024 - 2025 | CEINGE BIOTECNOLOGIE AVANZATE FRANCO SALVATORE - NAPOLI**

### Student Internship

My internship focused on investigating the epigenetics of embryonic stem cells and brain cells differentiation.

Technical skills acquired:

- Molecular Biology Techniques (DNA/RNA extraction, PCR, qPCR, Agarose Gel Electrophoresis)
- Chromatin Immunoprecipitation (ChIP-qPCR)
- DNA Methylation Analysis and Bisulfite Conversion
- Next-Generation Sequencing (NGS) Library Preparation
- Cell Culture (Embryonic Stem Cells and Human Glioblastoma Cells) and Microscopy
- Data Analysis (Microsoft Excel)

## Education

**2022 - 2025 | UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II - NAPOLI**

### Master's degree in Medical Biotechnology (LM-9)

Grade: 110/110 with honors and academic distinction

Master's thesis title: Epigenetic regulation of the *NANOG* locus in embryonic stem cells: the role of a novel enhancer RNA

Supervisor: Prof. Lorenzo Chiariotti

Direct Supervisor: Dr. Mariella Cuomo

**2018 - 2022 | UNIVERSITÀ DEGLI STUDI DELLA CAMPANIA "LUIGI VANVITELLI" - CASERTA**

### Bachelor's degree in Biotechnology (L2)

Grade: 110/110 with honors

Bachelor's thesis title: The role of the JAK/STAT signaling pathway in the pathogenesis of autoimmune diseases

Supervisor: Prof. Michele Grieco

**2013 - 2018 | LICEO SCIENTIFICO STATALE LEONARDO DA VINCI - VAIRANO PATENORA (CE)**

High School Diploma

## **Interpersonal and Organizational Skills**

- Teamwork and Collaboration
- Adaptability
- Time management
- Decision-making
- Critical thinking

## **Technical Skills**

- DNA/RNA Extraction and Purification
- Polymerase Chain Reaction (PCR)
- Agarose Gel Electrophoresis
- Reverse Transcription PCR (RT-PCR)
- Quantitative Polymerase Chain Reaction (qPCR)
- Chromatin Immunoprecipitation (ChIP)
- Methylation-specific PCR
- Bisulfite Sequencing
- Next Generation Sequencing (NGS) Library Preparation
- Cell Culture
- Microscopy
- Transfection Techniques
- CRISPR/Cas9 and Genome Editing
- Data Analysis (Microsoft Excel)

## **Certifications**

### **2024 | HEALTH AND SAFETY TRAINING FOR WORKERS (HIGH RISK)**

CEINGE Biotechnologie Avanzate Franco Salvatore - Napoli  
Completed a 16-hour general and specific training course on workplace health and safety, in compliance with Italian Legislative Decree 81/08 and State-Regions Agreement N° 221/2011.

Date of Completion: April 12, 2024.

## **Interests and Hobbies**

Classical flute player with almost 10 years of experience. My musical background has strengthened my discipline and perseverance, skills I also bring to scientific research.