



+39 3337021369



Corso Mediterraneo 15, 80016, Marano di Napoli (NA)



margherita.isernia@gmail.com

### Language skills

Italian: Native Language

English: C1

Portuguese: A2

• French: A2

### Certifications

- EIPASS informatic certification
- Cambridge 'Advanced' certification
- FLUL 'A2' certification in portuguese language

### **Other activities**

- Competitive Waterpolo from 2007 to 2015. Società sportiva Acquachiara Napoli
- Gold Medal U15 Italian waterpolo league 2013.

## Margherita Isernia

date of birth: 25\07\1998

### Formative experiences

01\2025- In progress

# Internship Master II level in 'Biology and Biotecnology of Reproduction: from research to the clinic' – Genera Roma, University of Pavia

 Morpheus Project: Developing of an Al-based tool for segmenting images extracted from embryonic development videos captured by an Embryoscope incubator. The project focused on training advanced machine learning algorithms to accurately analyze and interpret embryonic growth stages.

03\2024-10\2024

### Amsterdam UMC- Department of Reproduction and Development

 Functional screening for the potential role of newly discovered genes in trophoblast biology using a TSC-EVT model system comprising both cell cultures and organoids, with implications in pregnancy disorders.

03\2023-02\2024

### IRG- Institute of genetic research

 Genetic typing of KIR receptors and HLA-C ligand in couples undergoing ART treatments with an history of recurrent miscarriage, repeated implant failure and unexplained infertility

09\2022-02\2023

#### **University of Lisbon**

 Practical activity for the course of Human Genetics. Focus on PCR and genetic typing of the bitter taste receptor TAS2R38 and its implications.

02\2022-10\2022

### Advanced course in biology and biotechnology of reproduction

 Oocytes vitrification, ICSI, FIVET, Swim-up, density gradient centrifugation, spermiogram

### **Education**

2025- in progress

Master's Degree in biology and biotechnology of reproduction: from research to the clinic. | *Università di Pavia* 

2024 Master's Degree in biology, curriculum differentiation and reproduction | Università Federico ||

Final thesis in Biology of reproduction titled: "The role of KIR receptors and HLA-C ligands in embryonic implantation and related complications; from physiology to assisted reproduction techniques Final grade: 110\110 cum laude

2021 Bachelor's Degree in Biotechnology | Università degli studi della Campania L. Vanvitelli
Final thesis in medical genetics titled: "Molecular basis of myotonic dystrophy and prospects of gene therapy" Final grade: 110\110

### **National Conferences**

"AN ARTIFICIAL INTELLIGENCE TOOL FOR PREDICTING
BLASTULATION BASED ON THE OBSERVATION OF CYTOPLASMIC
MOVEMENTS IN EARLY HUMAN EMBRYOS."

A. Fantinato, L. Corso, G. Fiorentino, G. Nicora, M. Meseguer, M. Taggi, F. Innocenti, **M. Isernia**, G. Coticchio, A. Vaiarelli, F. M. Ubaldi, L. Rienzi, S. Garagna, R. Bellazzi, M. Zuccotti, D. Cimadomo. 70° Conference GEI-SIBSC Modena, 10-13 June 2025.