Francesca Izzo

Date of birth: 08/01/2000

Nationality: Italian

Sex: Female

CONTACT

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europass

WORK EXPERIENCE

15/10/2024 – CURRENT Bordeaux, France

PhD candidate University of Bordeaux

Member of MSCADN CanDoIT project

Development of an acoustic biosensor for Breast Cancer detection:
Development and characterization of acoustic devices
Use of the impedancemeter and VNA
Surface functionalization with different types of bioelements
Detection of BC biomarkers
Data Analysis (OriginLab)

02/02/2026 – CURRENT University of Paris Saclay

Development of microfluidic design for Breast Cancer detection:
Development and characterization of microfluidic devices
Use of the cleanroom

1/10/2025 31/11/2025 University of Naples Federico II

Functionalization for Breast Cancer detection:

Antibody and aptamer functionalization of QCM devices

30/06/2025 4/07/2025 University of Bordeaux

Participation to the Bordeaux Summer School

Innovative technologies and clinical applications in cancer research

https://bss-cancer.u-bordeaux.fr/

Interaction with researchers, clinicians, and industry partners
Management of scientific program and logistics

01/05/2024 – 01/08/2024 Naples, Italy

Research Fellow University of Naples Federico II

Development and optimization of Lateral Flow assay:

- Data Analysis (OriginLab, ImageJ and Graphpad) • Analysis of real samples (blood samples)

Other activities

• ELISA test • Western blot

10/2022 – 01/2024 Naples, Italy

Internship

- Synthesis and characterization of Gold Nanoparticles • Antibody conjugation and functionalization
- Development of in vitro diagnostics assays • Data Analysis (OriginLab, ImageJ and Graphpad) • Analysis of real samples

Notable accomplishments include the innovation of a novel LFA design and the analysis of 60 real samples.

EDUCATION AND TRAINING

14/10/2024 – CURRENT Bordeaux, France

12/2021 – 02/2024 Naples, Italy

Master's degree in Molecular and Industrial Biotechnology
University of Naples Federico II

Final grade 108/110 **Number of credits** 120 **Thesis** *Rapid and Sensitive Lateral Flow Assay for Anti-Inflammatory Marker Detection: Optimization and Validation Strategies*

09/2018 – 12/2021 Naples, Italy

Bachelor's degree in Biomolecular and Industrial Biotechnology University of Naples Federico II

Final grade 104/110 **Thesis** "*Development of an analytical method for the quantification of polyphenols in the leaves of Arbutus unedo*"