GIADA SOSPIRO

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SUMMARY

Experienced biotechnologist with a strong background in molecular diagnostics and a proactive, curious approach to problem solving. I am now eager to move beyond routine laboratory work and to invest in learning innovative technologies, including data-driven methods, to contribute to projects that connect biology with real-world applications

WORK EXPERIENCE

R&D department employee, Alifax R&D (Trieste, Italy) **Oct 2022 - Present**

- Development and optimization of a qPCR-based diagnostic device for the detection of bloodstream infectious agents.
- Scientific and analytical validation of commercial diagnostic products.
- Literature review to evaluate feasibility and usefulness of introducing new targets. Preparation of experimental reports and presentations for collaborators.
- Introduction to Python scripting to streamline reporting processes and reduce manual, error-prone tasks.
- Work environment compliant with SOPs and GMPs

Research fellowship, ICGEB (Trieste, Italy) **Mar 2022 - Oct 2022**

- Telethon research project based on pathogenesis of Wiskott-Aldrich syndrome

EDUCATION

Master of Medical and Pharmaceutical Biotechnology, **Oct 2019 - Mar 2022**
University of Study of Trieste

- Focus on gene editing to generate BCAP gene knockout cell lines
- Experimental thesis on "Priming cells to type I IFN production: is there a complex interplay involving BCAP and WASp?"
  Final vote: 110 cum laude

Bachelor of Biotechnology **Oct 2016 - Oct 2019**
University of Study of Perugia

- Focused on generating murine stem cell-derived organoids to test renewal and differentiation using microbiota metabolites
- Experimental thesis on "Oral mucositis as a debilitating complication in chemotherapy protocols: the microbiota as a new treatment option"
  Final vote: 107/110

ADDITIONAL INFORMATION

Technical Skills

- Handling of mice, cells collection fom bone marrow and spleen, cell lines and primary cells culture, isolate and quantify genomic DNA, RNA and cDNA synthesis by PCR, cloning construct and bacterial colture, ELISA, Western Blotting Technique, CRISPR-Cas9 genome editing technique (lentiviral and nucleofection), basic usage in confocal microscopy and flowcitometry.

Language and Digital Skills

- Italian mother tongue, professional English (B2)
- Fluency in using the Office package (Excell, Word, PPT, Publisher), GraphPad, Biorender, basic in FlowJo, beginner in Python

Pubblications

- "BCAP Is an Interferon-Stimulated Gene That Enhances Type I Interferon Activity in Response to Lipopolysaccharide"