SILVIA BELVEDERESI

CV RESUME

INFO&CONTACT

29/04/1997

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ADDITIONAL EXPERIENCE

Inventory Assistant

2021-2022

Farmacia Vannini, 60030 Morro D'Alba, AN, Italy

- Knowledge of Italian pharmaceutical regulations, including prescription drugs, OTC, and biosimilars.
- Familiarity with Good Manufacturing Practice (GMP) for proper storage and handling of sensitive drugs.
- Managed pharmacy inventory, ensuring product traceability and compliance with safety regulations.

TECHNICAL COMPETENCES

- Organoids culture
- Mammalian cell culture
- Microfluidics
- Electrophoresis
- RT-PCR and qPCR
- HPLC and reversed phase HPLC
- CRISPR/Cas9
- AlamarBlue
- xCELLigence RTCA
- ICC
- Fluorescence and confocal microscopy
- Data analysis (R package)

LANGUAGES

Italian mothertongue

English C1

Spanish A2

Danish A1

PROFILE

I am currently employed as Research Assistant at Aarhus University, working in a variety of projects in the fields of cell biology, cellular agriculture and bovine lactation fisiology.
My academic interest has always been on innovative research that gives a nod to sustainability, since I truly believe in the potential of biotechnology as an answer to challenging scientific questions - from greenhouse gas emissions to medical diseases - and I am thrilled to give my own contribution to the field.

WORK EXPERIENCE

Research Assistant

Aarhus Universitet - Department of Animal and Veterinary Sciences

Blichers Alle 20, 8830 Tjele, Denmark 2025-current

- Bovine mammary organoids research: Developed and optimized 3D organoid cultures from bovine mammary tissue to investigate cellular proliferation, differentiation pathways, and milk protein secretion potential.
- Bovine extracellular matrix research: Processed bovine mammary gland tissue to extract and formulate ECM-based hydrogels for use as biologically relevant scaffolds in cell culture models.
- Bovine Primary Mammary Epithelial Cells characterization research: Conducted functional and phenotypic characterization using immunofluorescence microscopy and xCELLigence real-time analysis, including evaluation of serum-free media alternatives to FBS.

EDUCATION

Aalborg Universitet

Master of Science in Biotechnology 2022-2024

- Precision Fermentation Research: Engineered CRISPR/Cas9 transformations in *Apiospora alaburgensis* for heterologous bovine β-lactoglobulin production, developing expertise in genetic engineering and protein expression (Supervised by Mette Lübek).
- Plastic Upcycling Research: Investigated the enzymatic breakdown of PET using *Pseudomonas* strains, contributing to plastic recycling and upcycling innovations (Supervised by Cristiano Varrone).
- Master's Thesis - Sustainable Milk Production: Led a comparative study on primary and established mammary epithelial cell lines in a bioreactor, optimizing conditions for sustainable milk production (Supervised by Peter Kristensen and Stig Purup).

Alma Mater Studiorum - Università di Bologna

Bachelor's Degree in Biotechnology 2016-2021

- Bachelor's Thesis - Nanobiotechnology and Microfluidics: Developed and tested a microfluidics model for studying neuroinflammation, advancing knowledge in device fabrication and cellular responses in microenvironments (Supervised by Giampiero Zuccheri).