I believe that success in each project comes from channeling my energy and passion to make a difference in the world.

FRANCESCA STELLA

INDUSTRIAL BIOTECHNOLOGIST,
PH.D. CANDIDATE IN CHEMICAL ENGINEERING

+39 3481230851
francesca.stella@polito.it
francesca.stella.biotec@gmail.com
www.linkedin.com/in/francescastellabiotech
24/04/1995
Italy
driving licence B

COMPETENCES

LABORATORY-RELATED SKILLS

experience with: FPLC, HPLC, NIR, SPECTROPHOTOMETERS, ELECTROPHORESIS, TLC

- Experience with x-ray measurements and PCR
- Synthesis and purification of organic molecules with microwave
- Use of bacterial and yeast systems: growth, scaling up, protein extraction

DIGITAL SKILLS

Data elaboration using:

- office (for public presentations)
- Excel
- Matlab
- Pymol (video and picture) and Yasara
- Final grade: 100/100
- Graphical illustration using Procreate and multilayer drawing. Projects:
  - Graphic designer for The National Symposium on NIR Spectroscopy – NIR ITALIA 2024
    https://niritalia2024.sisnir.org/
  - Logo designer for MolecularPost web journal
    https://molecularpost.altervista.org/about-the-_molecularpost/

LINGUISTIC SKILLS

Native speaker:
ITALIAN
Other languages:
ENGLISH B2 (IELTS score 6)
FRENCH A1
SPANISH A1

SOFT SKILLS

- Public speaking and project presentation
- Excellent practical skills
- Strong interpersonal skills and team working

PUBLICATIONS

Adv Funct Materials - 2022 -
Designing Artificial Fluorescent Proteins: Squaraine-LmrR Biophosphors for High Performance Deep-Red Biohybrid Light-Emitting Diodes
DOI: https://doi.org/10.1002/adfm.202111381

Sustainable Chemistry and Pharmacy - 2024 -
Closing the loop: Analysis of biotechnological processes for sustainable valorisation of textile waste from the fast fashion industry
DOI: 10.1016/j.scp.2024.101481

I hereby authorize the processing of the personal data in this CV in compliance with the European Regulation (UE) 2016/679.

CURRENT POSITION

PHD IN CHEMICAL ENGINEERING
Politecnico di Torino | February 2023 - present
Supervisor: Fabio Deorsola, Debora Fino
Title: Advanced cyrcular processes: textile waste valorisation

WORK EXPERIENCE

FELLOWSHIP
POLITECNICO DI TORINO - FACULTY OF CHEMICAL ENGINEERING
Torino (Italy) | September 2022 - January 2023
Urban Wastes Management and Valorisation

FELLOWSHIP
DEPARTMENT OF MICROBIOLOGY - FACULTY OF AGRICULTURE
Sassari (Italy) | January - May 2022
Brewery wastewater Treatment using Aerobic Bioreactor

QUALITY CONTROL ANALYST
ESI SPA
Albissola Marina (Italy) | June 2021 - January 2022
- Pathogen detection and identification
- Chemical-physical characterization of products

TEACHER OF NATURAL SCIENCES
HIGH SCHOOL GIULIANO DELLA ROVERE
Savona (Italy) | October 2020 - August 2021

ERASMUS TRAINEESHIP
CIC BIOMAGUNE RESEARCH CENTRE
San Sebastian (Spain) | June - September 2019
- Protein's engineering, expression and purification
- Specific bioconjugation strategies between many dyes and protein mutants, in order to obtain BIOLEDs

INTERNSHIP STUDENT
IIT INSTITUTE
Genoa (Italy)) | August - September 2018
Production of bioplastics obtained from textile industry waste: development of keratin extraction techniques from wool fibers

CHEMISTRY TECHNICIAN
INFINEUM ITALIA SRL INDUSTRY
Savona (Italy) | June 2013

LABORATORY ASSISTANT
WASTEWATER PURIFIER
Savona (Italy) | July 2012

EDUCATION

CERTIFIED BIOLOGIST
August 2020

MASTER DEGREE IN INDUSTRIAL BIOTECHNOLOGY
University of Turin | October 2017 - December 2019
Thesis title: LmrR-Squaraine Complexes as Artificial Fluorescent Proteins for Bio-WLEDs
Supervisor: Claudia Barolo
Final grade: 110/110 cum laude

BACHELOR DEGREE IN BIOTECHNOLOGY
University of Pavia| October 2014 - July 2017
Thesis title: The G-Quadruplex as Therapeutic Target
Supervisor: Mauro Freccero.
Final grade: 102/110

CHEMISTRY TECHNICIAN
Industrial Institute Ferraris-Pancaldo, Savona | September 2009 - June 2014
Final grade: 100/100