CURRICULUM VITAE ELISABETTA PETRI

PERSONAL DATA

📍 Via F. Lami, 15, 47121, Forlì (FC)
Via Torleone, Bologna (BO)

📱 +39 3497212893

✉ elisabetta.petri2@unibo.it
elisabetta.petri@hotmail.com

Woman | Date of birth: 02/05/1995 |Italian

PROFESSIONAL EXPERIENCE

February 2021 - to date

Research Contract for European project H2020 - MAGNIFY: "From nano to macro: a groundbreaking actuation technology for robotic systems" at the Laboratory of Electrochemistry of Materials for Energetics at the Department of Chemistry "Giacomo Ciamician" – University of Bologna

Digita qui il testo

Supervisor: Prof.ssa Catia Arbizzani
Research activity: Study and development of nano-structured materials with nanofibrous morphology capable of reacting to an electrical stimulus.

March - Dicember 2020

Graduate research at the Polymer Science and Biomaterials research group of the Department of Chemistry "Giacomo Ciamician" - University of Bologna

Thesis: "Preparation and optimization of silk fibroin electrospun scaffold for the regeneration of musculoskeletal tissue"
Supervisor: Prof.ssa Maria Letizia Focarete
Co-Supervisors: Prof.ssa Barbara Roda, Dott.ssa Anna Liguori, Dott. Francesco Grassi
Research activity: Develop and optimization of nanostructured electrospun scaffolds based on silk fibroin and loaded with a biomolecule able to release hydrogen sulfide. The aim of the project was obtaining a device able to both support and induce the regeneration of damaged musculoskeletal tissues and actuate an anti-inflammatory action. The H_2S-releasing tests were optimized and carried out in collaboration with the analytical group, while the biological tests were developed in collaboration with the RAMSES Laboratory.
The chemical-physical characterization was achieved by using: Thermogravimetric Analysis (TGA), Differential Scanning Calorimetry (DSC), Scanning Electron Microscopy (SEM), Infrared Spectroscopy with Fourier Transformation (FT-IR/ATR).

September - March 2018	**_Trainee_** _at the Photochemistry group of the Department of Chemistry "Giacomo Ciamician" – University of Bologna_

Thesis: "Functionalization of hyaluronic acid with rhodamine B and characterization."
Supervisor: Prof.ssa Nelsi Zaccheroni
Co-supervisor: Dott. Damiano Genovese
Research activity: Functionalization of hyaluronic acid with a fluorophore, rhodamine B, in order to study the changes of the protein when placed in different environmental conditions (pH, temperature, solvents). The aim of the project was developed a system for _in vivo_ uses for the recognition of pathological protein aggregates on the cell surface, based on the different morphology assumed by hyaluronic acid.
Characterization techniques used: Spectrophotometry, spectrofluorimetry, Z potential, Dinamic Light Scattering (DLS), Time Correlated Single Photon Counting (TCSPC), Circular dichroism spectroscopy.

June - July 2012	**_Training internship_** _at the Istituto zooprofilattico sperimentale of Lombardia and Emilia-Romagna (IZLER) of Forlì_

Activity: Laboratory diagnosis of infectious diseases of domestic and wild animals, microbiological analyzes on food of animal origin and not. In particular, sowing and trapping on cultural media, preparation of serological tests using the ELISA technique, preparation of all phases of the PCR reaction.

EDUCATION

November 2020 – to date	Percorso formativo – 24 CFU (9241) _Alma Mater Studiorum – University of Bologna_
October 2018 – Dicember 2020	LMSc in Photochemistry and Molecular Materials (LM-54) _Department of Chemistry "Giacomo Ciamician" - Polymer Science and Biomaterials research group – Analytical group – RAMSES Laboratory of Rizzoli Orthopedic Institute_ _University of Bologna_ **Final mark**: 110/110 cum laude
September 2014 - March 2018	BSc in Chemistry and Material Chemistry (L-27) _Department of Chemistry "Giacomo Ciamician" – University of Bologna_ **Final mark**: 108/110
September 2009 – July 2014	High school: Scientific High school Degree _Liceo scientifico statale Fulceri Paulucci di Calboli of Forlì_ **Final mark:** 81/100

PERSONAL SKILLS

MOTHER TONUGUE   Italian

OTHER LANGUAGES   English

Reading	Writing	Listening	Speaking
B2	B2	B2	B2

January 2019 - February 2020   Participation at Alma English courses and achievement of **IELTS certification**

May - july 2018   Participation at the General English courses at Barnet Southgate College of London

Luglio 2011   Participation at the exchange program in Southampton, England

SOFTWARE SKILLS   Microsoft Office tools and Latex, Linux (basic), ChemBioDraw, Origin and Sigmaplot, EClab (electrochemistry), TA Universal Analysis and Trios, ImageJ, Gaussian (basic).

PROFESSIONAL SKILLS   Analytical procedures, data elaborations and library research, team working, problem solving, collaboration with other research group, compilation of report.
Macromolecular chemistry: electrospinning technique, Differential Scanning Calorimetry (DSC), Thermo-gravimetric analysis (TGA), Scanning Electron Microscopy (SEM), Infrared Spectroscopy with Fourier Transformation (FT-IR/ATR). Photochemistry: UV-Vis Spectroscopy, Time Correlated Single Photon Counting (TCSPC), fluorescence anisotropy, circular dichroism spectroscopy, Z potential, Dinamic Light Scattering (DLS). Electrochemistry: Cyclic Voltammetry (CV), Electrochemical Impedance Spectroscopy (EIS), galvanostatic techniques.

OTHER

DRIVING LICENCE   B, AM

Pursuant to Article 76 of Presidential Decree 28 December 2000, n. 445 and aware that anyone who makes false statements, issues false documents or uses them in the cases referred to in this text is punishable according to the Penal Code and special laws and incur, furthermore, in loss of benefits in accordance to Article 75 of the above mentioned Presidential Decree 445/2000, I declare under my own responsibility that that what is indicated this CV corresponds to the truth.

In compliance with the European Regulation (EU) 2016/679 and of the Italian Legislative Decree 196/2003, I hereby authorize to use my personal details and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned decree.

Bologna, 22/03/2021

Signature

Elisabetta Rotari