

# Elena Roggiolani

elena.roggiolani2@unibo.it, +39 3925935432, 4<sup>th</sup> May 1998, Arezzo



## Application for: Research Associate – Medicinal Chemistry

Medicinal chemistry: design, synthesis and biological evaluation of small molecules with different mechanism of action.

## Current position

Ph.D. student in Medicinal Chemistry at University of Bologna

Ph.D. course: Drug Discovery and Development

Supervisor: Prof. Michela Rosini

Co-Supervisor: Prof. Anna Minarini

Field: Design and synthesis of kinase's inhibitors

## Education

Oct 2017 –  
Nov 2022

Master's Degree in Pharmaceutical chemistry and technology at University of Bologna

Supervisor: Prof. Federica Belluti

Thesis title: Design and synthesis of multitarget ligand for treatment of Bipolar Disorder

Final Grade: 110/110 cum laude

## Research Experience

Jan 2023 –  
Oct 2023

Post-graduate fellowship at University of Bologna funded by Fondazione Dal Monte

Title: Development of drug candidates for cutaneous leishmaniasis: synthesis of natural-like molecules, pharmaceutical formulation, and clinical-therapeutic correlation

Supervisor: Prof. Federica Belluti

Nov 2025 –  
May 2026

Research visiting at University of Tübingen, Germany

Supervisor: Prof. Matthias Gehringher

## Talks, conferences, workshops and schools

Oct 2023 -  
Oct 2024

Giornata della Chimica SCI-ER

Poster title: Different strategies to target GSK3 $\beta$  and FYN to investigate neuroinflammation

May 2024

Summer school "Chemical and genomics based strategies in the discovery of novel drug targets", Bologna

June 2025

Winner of the fellowship for ESMEC summer school, Urbino, Italy.

Project title: *Different strategies to target GSK3 $\beta$  and FYN to investigate neuroinflammation*

June 2026

Winner of the fellowship for NMMC2026, Messina, Italy. Flash title: *Targeting FYN and GSK-3 $\beta$  to tackle neurodegeneration*

## Teaching

Apr – May  
2023-2025

Tutoring activity: teaching assistant for students in coursework during laboratory activities for *Analysis of Drugs and Health Products I* [cod. B2817]

May 2023

Tutoring activity: teaching assistant for students in coursework during laboratory activities for *Experimental Methodologies for the Preparation of Drugs* [cod. 37722]

Supervising activity: Master thesis assistant supervisor of medicinal chemistry's master students

## List of publications

Giambattista Marotta, ..., Elena Roggiolani, et al.

*Exploration of the neuromodulatory properties of Fyn and GSK-3 $\beta$  kinases exploiting 7-azaindole-based inhibitors.* Journal of Medicinal Chemistry **2025** 68 (16), 17130-17154

DOI:10.1021/acs.jmedchem.5c00629

Elena Roggiolani, Michela Rosini, Anna Minarini, Filippo Basagni.

*Probing allosteric kinase modulators as next game-changers in fighting neurodegeneration.* Journal of Medicinal Chemistry **2026**, 69,

9815–9852 DOI: 10.1021/acs.jmedchem.5c03783

Filippo Basagni, Elena Roggiolani, Anna Minarini, Michela Rosini.

*Covalent modulation of protein misfolding and aggregation processes in the context of neurodegenerative diseases.* Arch Pharm (Weinheim).

**2026** Jun;359(6):e70285. DOI: 10.1002/ardp.70285.

Filippo Basagni, ..., Elena Roggiolani, et al.

*Exploring Disulfide Bridge As A Tool To Improve Pioglitazone's Neuroprotective Potential: Toward The Development Of Prolonged-Acting MAO-B/PPAR $\gamma$  Modulators* ChemMedChem 2026, 0, e70405.

<https://doi.org/10.1002/cmdc.70405>

## Personal skills

Languages

Italian: native speaking

English: B2 (IELTS)

German: A1

Event  
organization

Experience as a student representative, collaborating with faculty and peers to address academic matters and organizing seminars related to the courses field

Member of Italian Chemical Society

Public  
speaking

Chair during the department's Journal Club

Accepted flash talk at NMMC26