



# Martina Tomaiuolo

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## ABOUT ME

After my master degree, I have started my Ph.D. in the Biomolecular Sciences and Biotechnologies program at the Istituto Universitario di Studi Superiori (IUSS) of Pavia. For the experimental training, I currently work at European Institute of Oncology (Milan) on a project that focusses on the characterisation of the human pre-mRNA 3'-end processing machinery and its implication in cancer. For these studies, I use fore-front approaches of integrative structural biology, including biochemical reconstitutions and Cryo-Electron Microscopy. I am highly motivated, with a pragmatic attitude, and can rely on good organizational skills and time management.

## WORK EXPERIENCE

**PHD STUDENT AT IUSS (ISTITUTO UNIVERSITARIO STUDI SUPERIORI) PAVIA, CURRENTLY WORKING AT THE EUROPEAN INSTITUTE OF ONCOLOGY (IEO) MILAN – SCUOLA UNIVERSITARIA STUDI SUPERIORI (IUSS) PAVIA, ITALY** – 09/10/2023 – Current – ITALY

Skills:

- Recombinant over-expression in E.coli, insect and mammalian cells
- Protein expression and purification
- Biochemical and biophysical characterisation
- Protein crystallization
- Immunoprecipitation
- Basic training in Electron Microscopy (cryo and negative staining grid preparation)

**MASTER THESIS – CNR-INSTITUTE OF CRYSTALLOGRAPHY, TRIESTE, ITALY** – 16/03/2022 – 01/03/2023 – ITALY

Skills:

- Cell culture (bacteria)
- Protein expression and purification
- Stability and molecular interaction studies (ITC, GCI/SPR, DSF)
- Protein crystallization and Crystallographic structure determination (Light of Synchrotron, Elettra, TS)

## EDUCATION AND TRAINING

09/10/2023 – CURRENT Milan, Italy

**PHD STUDENT** IUSS Pavia and European Institute of Oncology

**Field of study** Biochemistry and Structural Biology

01/10/2020 – 20/03/2023 Italy

**MASTER DEGREE IN MEDICAL BIOTECHNOLOGY** University of Trieste, IT Final mark: 110/110

01/10/2017 – 21/07/2020 Italy

**BACHELOR DEGREE IN BIOTECHNOLOGY** University of Ferrara, IT Final mark: 107/110

## LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## ● SKILLS

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Buon utilizzo di MS – Office: Word, Excel, Power Point, Outlook etc.

## ● PUBLICATIONS

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2024

### [Structural basis for Specific Inhibition of Salicylate Synthase from Mycobacterium abscessus](#)

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Mori, M., et al. Structural basis for specific inhibition of salicylate synthase from Mycobacterium abscessus. Eur J Med Chem. 2024;265, 116073: 5.5

2023

### [Targeting Siderophore-Mediated Iron Uptake in M. abscessus: A New Strategy to Limit the Virulence of Non-Tuberculous Mycobacteria](#)

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Mori, M., Targeting Siderophore-Mediated Iron Uptake in M. abscessus: A New Strategy to Limit the Virulence of Non-Tuberculous Mycobacteria. Pharmaceutics. 2023; 15(2):502: 4.9

## ● CONFERENCES AND SEMINARS

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2024 Heidelberg, Germany

### **The complex life of RNA-EMBO Workshop**

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2025 Pavia, Italy

### **Young Biochemistry in Lombardy- 8th Meeting**

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