

MILENA PUTNIK

MOLECULAR BIOLOGIST (M.SC.)

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SUMMARY

Motivated Master's graduate in Molecular Biology with internship experience in cancer signaling and plant pathophysiology. Passionate about advancing in biomedical research and its practical applications. Seeking to contribute to the lab's innovative projects, building on my academic training and practical expertise to support meaningful and impactful discoveries.

SKILLS

In vitro cell culture	Western blot	Proximity ligation assay
Cell transfection/treatments	Flow cytometry	Co-immunoprecipitation
Site-directed mutagenesis	Confocal microscopy	Data analysis (Graph Pad)

EDUCATION

Master of Molecular Biology **2022 - 2024**

Università degli Studi di Padova

- Thesis title: "Exploring the mechanism accounting for Kv1.3-STAT3 interaction and consequent alterations of cancer-relevant pathways".

Final grade: 109/110

Bachelor of General Biology **2017 - 2022**

University of Banja Luka

- Thesis title: "Examination of the effects of drought on DNA methylation".

Investigation of DNA methylation patterns in response to environmental stress in plants, a key area in epigenetics.

Final grade: 9.66/10.00

- Main techniques used: Genomic DNA isolation using the GenUp™ Plant DNA Kit (Biotechrabbit™), and Methylation analysis with the MethylFlash Methylated DNA 5-mC Quantification Kit (EpiGentek Group).

EXPERIENCE

- **Master Thesis Intern** **March 2024 – December 2024**

University of Padova (UNIPD) | Padova, Italy

Dipartimento di Biologia

Experienced in a variety of molecular and cellular biology techniques, including in vitro cell culture, cell transfection and treatments, site-directed mutagenesis, plasmid DNA extraction (Mini Prep and Midi Prep), Western blot, global protein synthesis assessment by flow cytometry, confocal microscopy, proximity ligation assay, co-immunoprecipitation, thermal shift assays, TMRM staining, MitoSOX ROS production assays.

- **CEEPUS program internship** **October 2021 – November 2021**

University of Zagreb, Faculty of Agriculture | Zagreb, Croatia

Department of Plant Pathology (Division of Phytomedicine)

The program included work in on the isolation of nucleic acids from plant material, PCR reactions (conventional and real-time), preparation of PCR products of viral genomes for sequencing, sequencing.

LANGUAGES

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| • Serbian (mother tongue) | • English C1 |
| • Croatian/Bosnian (mutually intelligible) | • Italian A2 |
| | • Russian B1 |