



Natalija Miskov

Molecular Biology & Physiology student

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FORMAL EDUCATION

2020 - present

Faculty of Biology, University of Belgrade

Bachelor's in Molecular Biology & Physiology

2016 - 2020

Zrenjanin Grammar School

Zrenjanin, Serbia

ACHIEVEMENTS

2025

Award for the Best Scientific & Professional Research Paper

Granted by University of Belgrade

2021 - 2022

Dean's List Scholarship

Granted by Serbian Ministry of Education, Science & Technological Development

2020

President's list award for High School Students

Granted by Serbian Ministry of Education, Science & Technological Development

2019

Scholarship for High School Students

Granted by Serbian Ministry of Education, Science & Technological Development

LABORATORY SKILLS

PCR qPCR RT-PCR Western blot

DNA and RNA extraction Probiotic characterization Agarose gel electrophoresis

Cell culture Sterile methods

RESEARCH EXPERIENCE

2024 - 2025

“Assessment of the Probiotic Potential of *Apilactobacillus kunkeei* Isolates and Their Effect on Vitamin D Receptor Expression In Vitro”

Department for Probiotic and Microbiota-Host Interaction, Institute for Molecular Genetics and Genetic Engineering

Mentor - Dr. Dusan Radojevic

- Applied molecular biology techniques and maintained sterile laboratory practices to investigate the **probiotic** properties of *Apilactobacillus kunkeei*.
- Conducted **cell culture experiments** using **human intestinal Caco-2** cells to model gut-microbiota interactions.
- Designed and executed experiments to assess the influence of bacterial isolates on **Vitamin D Receptor (VDR)** expression.
- Performed comprehensive **data analysis and visualization**, generating insights into the potential **therapeutic role of *A. kunkeei*** in gut health.

05 / 2023

“Examination of the Antimicrobial Activity of Bacterial Strain GV-2 Against Clinically Relevant Pathogens”

Department of Molecular Microbiology, Institute for Molecular Genetics and Genetic Engineering

Mentor - Dr. Goran Vukotic

- Applied **sterile microbiological** techniques to **maintain accuracy** and reliability in experimental procedures.
- Investigated the antimicrobial properties of **bacterial strain GV-2** against **clinically relevant pathogens**.
- Utilized the **Agar Well Diffusion Method** to evaluate **inhibitory effects**, generating insights into **GV-2's potential** as a novel antimicrobial agent.

06 / 2022

“Examination of the Genetic Variability of Bee Populations in Serbia - Internship”

Department of Population Genetics and Ecogenotoxicology, Institute for Biological Research ‘Sinisa Stankovic’

Mentor - Dr. Marija Tanaskovic

- Performed **DNA extraction, purification, and quantification** from bee tissue samples to assess population-level genetic diversity.
- Applied molecular genetics techniques to **evaluate genetic variability**, contributing to research on **biodiversity and ecological resilience** of pollinator populations.

COMPUTATIONAL SKILLS

Programming Languages

Python R

Biological Database Technologies

GenBank UniProt

Operating Systems

Windows

Sequence Analysis Tools

BLAST

PDB

Ensembl

XOS

NCBI

STRING

Linux

LANGUAGES

- English:** Professional working proficiency (**IELTS C1 Certified**)
- Serbian:** Native proficiency
- German:** Elementary proficiency

VOLUNTEERING

- @ Festival 'Return of the Supernatural'
- @ National Serbian Science Festival
- @ European Researchers' Night Exhibition
- @ Festival 'Science Picnic'
- 📍 Serbia
- 📅 2021 - 2025

- **Directed on-site logistics** and organizational operations, ensuring seamless coordination of **large-scale festival activities** and smooth event flow for hundreds of attendees.
- **Managed critical assets and resources**, supporting researchers, exhibitors, and performers while **maintaining efficiency under fast-paced, high-pressure conditions**.

WORK EXPERIENCE

Relocation Survey Specialist

- @ Virtual Moving Technologies
- 📍 USA (Remote)
- 📅 03 / 2025 - present
- Conducted virtual client surveys and provided **clear, professional communication** in English to ensure accurate service delivery.
- Reviewed shipment data and household inventories, **identifying discrepancies** and **ensuring compliance** with logistics requirements.

Retail Sales Associate

- @ Pull & Bear (Inditex Group)
- 📍 Serbia
- 📅 2023 - present
- Delivered personalized customer service in **a high-volume, fast-paced retail environment**, ensuring a positive shopping experience and **fostering brand loyalty**.
- **Supported inventory management** and stock control, maintaining **accuracy and efficiency** in product availability
- **Collaborated** with team members on daily store operations, contributing to smooth workflow and **overall store performance**.

EXTRACURRICULAR ACTIVITIES

2021 - 2025

Author & Technical Coordinator @ Students' Journal of the Faculty of Biology 'Simbioza'

- **Authored and co-authored** peer-oriented scientific articles, honing skills in precise and **accessible science communication**.
- **Coordinated the Technical Associates Team** to manage article formatting, data visualization, and content integration.
- Played a pivotal role in **elevating the journal's quality and outreach**, bridging academic rigor with creative presentation.

2021 - 2024

Section Coordinator @ Students' Section of Serbian Society for Molecular Biology 'MolBioS'

- **Led and coordinated a team of 20 students**, organizing workshops, seminars, and outreach activities to **promote molecular biology** concepts to **both academic and public audiences**.
- **Strengthened leadership**, project management, and organizational skills, **building a sustainable student community** around molecular biology.

10 / 2023

Member of the Scientific Committee @ Second Congress of Molecular Biologists of Serbia 'CoMBoS2'

- **Served and contributed** to the planning and organization of the student program.
- Coordinated poster sessions and oral presentations, **facilitating knowledge exchange among young researchers** and ensuring the professional execution of the congress.

2022 - 2023

Student mentor @ University of Belgrade

- **Mentored first-year biology students**, providing guidance in navigating **academic challenges** and mastering **complex biological concepts**.
- Developed and **delivered study strategies** and **peer-support frameworks**, enhancing student integration and **academic success**.

2021 - 2022

Attendee @ Biology student's congress 'Simplast'

- **Collaborated in interdisciplinary** student teams to design and present scientific projects.
- **Contributed innovative ideas** to experimental design and **data interpretation**, strengthening teamwork and **research presentation skills**.

WORKSHOPS & SPECIALIZED TRAINING

2022 - 2024

- **Construction of Bacterial Mutants** – Practical training in primer design, cloning, and mutant validation for microbial genetics.
- **Nanopore Sequencing** – Hands-on experience with third-generation sequencing workflows and data analysis.
- **Protein-Protein Interaction Analysis** – Applied databases and computational tools for network and functional analysis.
- **CRISPR Applications** – Gained theoretical knowledge of CRISPR-Cas genome editing techniques in research contexts.