

### 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

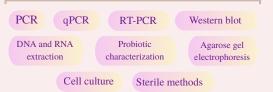
Granted by Serbian Ministry of Education, Science & Technological Development

2019

### Scholarship for High School Students

Granted by Serbian Ministry of Education, Science & Technological Development

#### LABORATORY SKILLS



#### 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	Biological Databa	ase Technologies	Operating Systems
Python R	GenBank	UniProt	Windows
Sequence Analysis Tools	PDB	Ensembl	XOS
BLAST	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**

- Wirtual 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.