

Tereza Mikovcova

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EDUCATION:

Imperial College London

October 2025 - June 2028 (ongoing)

- Program: BSc. Biochemistry, Horizons: Introduction to Entrepreneurship
- Involvement: BioScience Review (editor), Synthetic Biology, FemTech



1. Slavic Gymnasium and Language School, Na Příkopě 850/8, 110 00 New Town, Prague

September 2021 - June 2025

- 1st to 4th year grade average: **1.00** - top grade (12—14 subjects)
- Ranked **1st** in the grade
- Maturita (leaving exams): Czech 1, Chemistry 1, Biology 1, English 1, Maths 1
- Head of the School's Parliament

RELEVANT EXPERIENCE:

Scientific Researcher

Institute of Biotechnology of the Czech Academy of Sciences

April 2022 - September 2024

- I specialised in the study of bacterial nucleases, employing crystallization methods and advanced techniques like neutron diffraction. My work primarily involved preparing crystalline samples of nucleases S1 and Sm1 derived from parasitic organisms, specifically tailored for neutron structural analysis. This research serves to provide deeper insights into the structural characteristics and enzymatic mechanisms of these nucleases, contributing significantly to the advancement of biotechnological and biomedical fields.

Scientific Intern

Biozentrum University of Basel

September 2023

- Contributed to a research project investigating the function and impact of the bacterial Type VI secretion system (T6SS) of *Burkholderia thailandensis* in the infection process of human eukaryotic cells. Conducted experiments utilizing advanced molecular biology techniques to elucidate the mechanisms underlying bacterial-host interactions. Analyzed experimental data and documented findings in a comprehensive report. This research enhanced understanding of bacterial virulence strategies and potential therapeutic targets for combating infectious diseases.

Scientific Intern

Institut Laue-Langevin, France

April 2024

- Utilizing my demonstrated expertise, a successful grant acquisition was facilitated to collaborate with the esteemed Institute Laue-Langevin. The scientific review committee validated the quality of my crystals for neutron measurements, and my findings underpinned the successful approval of a neutron measurement application by an international panel. Through on-site involvement in diffraction experiments, I gained deep insights into neutron structural analysis methodologies.

LANGUAGES AND PROFICIENCY:

Czech - native | English - C2 Advanced Cambridge English, C2 EFSET certificate | German - B2 | French - A2

INVOLVEMENT:

Innovations United Festival 2025

- International conference at the Prague Castle. I was honoured to speak on two panel discussions: Digital Health & AI and Female Leaders: Health & Wellbeing.

Czechoslovak Crystallography Conference

April 2024

- As the youngest attendee in the conference's history, my research was presented, just as my findings on preparing optimal crystals for neutron crystallography.

Attending Lectures Institute of Organic Chemistry and Biochemistry of the CAS

2022 - Present

HONORS AND AWARDS:

Commendation from the school principal for outstanding academic performance (2022 - 2025)

Commendation from the school principal for exceptional performance in the SOČ competition (2024)

COMPETITION:

Středoškolská odborná činnost (SOČ) - National Vocational Competition (2024)

- Individually designed and executed original research experiments, performed rigorous data analysis, and authored a comprehensive thesis. Successfully defended the thesis before a panel of experts, earning qualification for the national round of the competition.