

Lubomira Papikova

Auckland

papikovalubomira@gmail.com

www.linkedin.com/in/lubomira-papikova

tel. number: 02040269249

OBJECTIVE

Recent college graduate looking for a job in chemistry.

(Working holiday visa in New Zealand)

PERSONAL STATEMENT

I am a recent graduate from a chemical technology college and my expertise is mainly in biochemistry, microbiology, genetic engineering, biotechnology and analytical chemistry. My undergraduate and graduate work has broadly expanded my skills in enzymology and protein engineering. I like to keep developing and learning new things and from previous labs where I have worked whether in research as part of my final year thesis, on a practical internship abroad or even in a clinical lab in a hospital I can say that I have been a good part of teams. I am a fast learner with an eye for detail and would like to make the most of and continue to develop my knowledge in the field.

TECHNICAL SKILLS

- Driver's license
- Microsoft office skills
- Food licence

PERSONAL SKILLS

- **teamwork**
 - Competing in biathlon for 10 years taught me mainly "fair play"
 - **self-management**
 - I plan everything carefully so that I can keep things in order and keep up with everything
 - **willingness to learn**
 - I hope I never stop learning and developing my knowledge
 - communication
 - thinking skills and resilience
 - positive attitude
 - self-motivation
 - flexibility
 - curiosity
 - sense of responsibility
 - adaptability
-

EDUCATION

University of Chemistry and Technology

Prague, Czech Republic
2020 – 2022

Master's degree

Biochemistry and Cell biology

Diploma thesis: The non-specific phospholipases C from *Arabidopsis thaliana*: structure-function relationship, Protein biochemistry laboratory with technological potential

- In order to clarify the relationship between the structure and catalytic activity of NPC4 in *A. thaliana* were made mutations near the active site of the enzyme. So this work obtained mutagenesis followed by production of recombinant proteins in *E. Coli*. Then the recombinant proteins were isolated and purified and activity of the enzyme was measured. The most interesting results were obtained in the H264A NPC4 mutant where PLC activity was preserved. And subsequently its temporal stability was also determined. It turned out that this mutation could increase the stability of the NPC4 enzyme and this represents a potential application in biotechnology.

University of Chemistry and Technology

Prague, Czech Republic
2017 – 2020

Bachelor's degree

Biochemistry and Biotechnology

Bachelor thesis: The influence of reaction condition on the transglucosylase activity of α -L-fucosylase

- The goal of this bachelor thesis was to trace the impact of pH and Deep Eutectic Solvents (DES) on the transglucosylation activity of enzyme α -L-fucosylase iso1 and its mutant S237V isolated from *Peanibacillus thiaminolyticus*. The first part was focused on the course of hydrolyses and transglucosylation in different pH (6,5 – 10). Results of transglucosylation were detected with HPLC using Supelcogel Ca column. In the second part, the influence of DES (cholin chloride in the combination with lactose) on the transglucosylation activity was tested. Results were detected with TLC using the silica gel plate. Outcome of the reaction in different pH confirmed the

useful mutation of S237V for transfucosylation with three times higher amount of fucosylated lactose than the non-mutated enzyme. The transfucosylation activity was also detected with the using of 10% and 20% DES in reaction mixture.

WORK HISTORY

Institute of Clinical Microbiology in Thomayer's Hospital

Prague, Czech Republic
2020-2022

Laboratory asistent

- extraction and isolation of RNA followed by PCR

WORK AND VOLUNTEER EXPERIENCE

University of Regensburg, Institute of Analytical Chemistry

Regensburg, Germany
June – September 2021

Traineeship

- cell cytotoxicity assays
- cell tissue culturing
- impedance based measuring
- ➔ To my CV I attach a document that describes and evaluates my work on this internship

ACHIEVEMENTS

- 3 th place place at the Student Scientific Conference in Prague in the category Production and Study of Proteins - scientific paper entitled The non-specific phospholipases C from Arabidopsis thaliana: structure-function relationship
-

INTERESTS

- Biathlon, sports in general, painting, handmade work, books, nature
-

REFEREES

Petra Lipovova
Academic scientist
University of Chemistry and Technology,
Prague

Petra.Lipovova@vscht.cz