Tamara Veres

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Experience

Research Assistant

National Research and Development Institute for Isotope and Molecular Technologies
Jun 2022 - Sep 2022 (4 months)
In this internship I took a peek into processes of quality control in the meat, honey and beverages subsections of the food industry. During this period I was part of a project that analyzed:
- honey adulteration with high fructose corn syrup
- apple and orange-based beverage adulteration with high fructose corn syrup
- reassurance and research of corn-fed poultry and pork meat
In the processes that gave us the desired results we were using Isotope-ratio mass spectrometry (IRMS).

During my internship, I conducted in-depth investigations on honey, orange and apple samples to detect potential adulteration with high fructose corn syrup. Employing Isotope-ratio mass spectrometry (IRMS), I analyzed $\delta13C$ values in honey and its protein, utilizing combustion to convert organic matter to CO_2 and measuring the results with IRMS. In beverage analysis, aside from assessing $\delta13C$ values in juices, I also examined $\delta18O$ to identify tap water presence. The comparison extended to $\delta13C$ values between pulped and regular beverages. Shifting focus to meat, I explored the variations in corn-fed poultry and pork from store-bought and farm-sourced meats. Comparisons included $\delta13C$ values in muscle and fat parts.

Throughout the internship, I honed skills in aseptic working conditions, collaborated on diverse projects with colleagues, operated various equipment like the isotope ratio mass spectrometer and combustion engine. Additionally, I mastered the art of statistical reporting and data interpretation. It was an enriching experience that not only expanded my technical expertise but also enhanced my collaborative and analytical skills.

Education

upf. Universitat Pompeu Fabra

Master's degree, Bioinformatics for Health Sciences
Sep 2023 - Jun 2025
In my current pursuit of a Master's degree, I am immersed in the fascinating field of bioinformatics for health sciences. Although the academic year has just started, I've already acquired a multitude of valuable skills:
• Acquired skills in R and Perl programming languages
• Proficiency in utilizing the Linux terminal
• Explored comparative genomics, including methods like Blast
• Learned how to use RNA-seq and ChIP-seq as genomics research tools
• Hands-on experience with software version management tools like Git
• Engaged in collaborative coding practices using GitHub

• Applied statistical analysis using R for efficient data computation

Babes-Bolyai University
Bachelor's degree, Biotechnology
Oct 2019 - Jul 2023
As a student pursuing the Industrial Biotechnology specialization, I am immersed in a cutting-edge program that delves into the practical application of biological processes for industrial purposes. Through a diverse curriculum that covers bioengineering, bioprocessing, genetic engineering, and informatics, I am gaining a comprehensive understanding of the field. The program places a strong emphasis on sustainability and environmental consciousness, training me to develop innovative solutions that align with global demands. I am gaining hands-on experience in laboratories, where I am mastering bioprocess optimization, bioreactor design, and downstream processing techniques. The knowledge and skills I am acquiring will enable me to make meaningful contributions to various industries, such as pharmaceuticals, food and beverages, biofuels, and beyond. I am excited to learn about the field of industrial biotechnology and to create positive impact through biotechnological advancements.

Mihai Eminescu High School
Baccalaureate, Biochemistry intensive English
2015 - 2019

Licenses & Certifications

First Certificate In English - Cambridge Language School

ECDL - ECDL Romania

Skills

R (Programming Language) • Perl • Linux • BLAST • Statistical Data Analysis • GitHub • Time Management • Resource Management • Problem Solving • Self-Management