

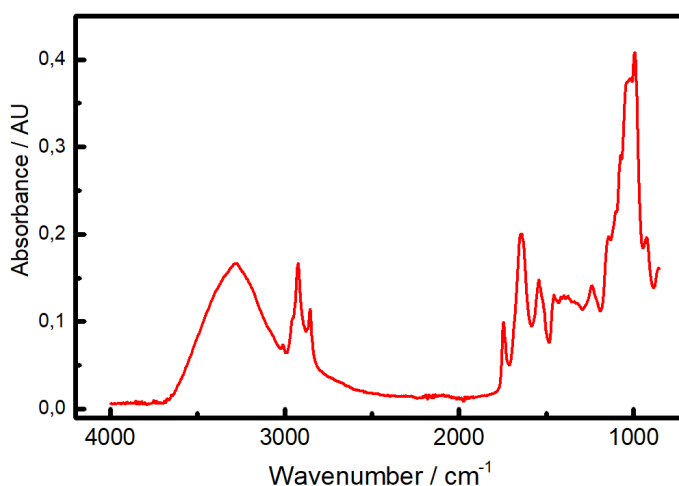
Development of Infrared Spectroscopic Methods for Rapid Mycotoxin Determination in Agricultural Samples

Humanity is plagued by mycotoxins since the usage of agriculture. To ensure food and feed safety, scientists have developed a multitude of analytical techniques for the determination of mycotoxin contamination. However, there is still a need for simple, cheap and rapid methods for mycotoxin screening in agricultural samples.

The aim of the thesis is to explore the potential of infrared spectroscopy for the rapid determination of mycotoxin contamination.

We are looking for a motivated individual which is keen on performing research focusing on infrared spectroscopy for the analysis of agricultural samples.

The research carried out during the thesis will include the development of sample handling protocols, operation of near- and mid-infrared spectrometers, performing reference analysis as well as the implementation of chemometric methods.



Start: January 2022

Requirements

- Master in chemistry, biotechnology or equivalent
- Interest in instrumental analysis & data analysis

Contact

Dr. Stephan Freitag
Stephan.Freitag@boku.ac.at

Prof. Rudolf Krska
Rudolf.Krska@boku.ac.at