Open PhD Position
Department of Food Chemistry and Toxicology

Investigating the Exposome, Metabolome and Microbiome by LC-MS

This position in the field of bioanalytical chemistry and metabolomics/exposomics is dedicated to the development of innovative mass spectrometry-based workflows and data evaluation tools. The developed methods will be applied to address pressing interdisciplinary research questions focusing on the interactions between environmental/food contaminants and the microbiome and their impact on human health. Besides research, this position includes teaching according to the collective agreement.

The working group ‘Global Exposomics and Biomonitoring’ represents a motivated interdisciplinary team acting in a network of national and international cooperations. We apply a multi-disciplinary approach to better understand the impact of food-related molecules on human health and use innovative mass spectrometric methods to investigate exposure, metabolism, and toxicity.

Requirements:

✓ Appropriate training in analytical, biological, food, or computational chemistry, biotechnology or related field (MSc level)
✓ Experience with mass spectrometry or metabolomics technology and scientific publishing are beneficial but no prerequisite
✓ Basic programming skills (e.g. R) and statistics knowledge would be additional assets
✓ High level of self-motivation, commitment, and work ethics; willingness to travel and cooperate within the framework of this thesis at a national and international level
✓ Application documents: Letter of motivation, academic curriculum vitae incl. research interests, references, degree certificates and transcripts

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