

# BayCEER Kolloquium

Lectures in Ecology and  
Environmental Research

WS 2018/19



UNIVERSITÄT  
BAYREUTH

Thursday

**13.12.2018**

**12:00 in H6, GEO**

**Prof. Dr. Andreas Römpp**

Bioanalytical Sciences and Food Analysis,  
University of Bayreuth

## High resolution mass spectrometry in environmental sciences and beyond

High resolution mass spectrometry provides highly specific information about analytes in complex mixtures. Applications presented in this talk range from fog samples and atmospheric aerosol to food products and human biopsy tissue. In addition to (routine) chromatography-based approaches, the talk will include mass spectrometry imaging. This technique provides spatial and molecular information for a wide range of compounds. In contrast to most histochemical techniques, mass spectrometry imaging can differentiate (amino acid) modifications and does not require labelling of compounds. Another focus of this presentation will be data analysis and handling, including new computational approaches and standardization efforts by the mass spectrometry community.