



# Your Partner for Customised Bioanalytical Solutions

Our mission is to provide bioanalytical data at the highest standards to support preclinical and clinical drug development.

**Institute Krems Bioanalytics – Part of IMC Krems University of Applied Sciences**  
Magnesitstraße 1, 3500 Krems an der Donau, Austria  
[www.krems-bioanalytics.com](http://www.krems-bioanalytics.com)

# Biomedical mass spectrometry

Biomedical mass spectrometry is a powerful tool for the development of targeted therapeutics, with applications in many areas of drug discovery and development. At Krems Bioanalytics, we specialise in several areas of biomedical proteomics, including the characterisation of the human immune response, plasma proteomics, protein conformation and interactions, and pharmacokinetic (PK) testing of large molecules.

## Active research focus and proteomic applications

- Protein interaction and conformation studies using chemical crosslinking combined with mass spectrometry
- Protein network analysis by affinity-purification / mass spectrometry
- Epitope-mapping of recombinant and native antibodies using chemical crosslinking combined with mass spectrometry
- De novo sequencing workflow for antibodies
- Immunopeptidomics – sensitive detection of MHC-I/II presented peptides in clinical and preclinical samples
- Selective low-abundant protein enrichment for in-depth plasma profiling
- In-depth plasma proteome profiling with selective depletion methods of abundant proteins
- High-throughput quantitative protein profiling of clinical and preclinical samples

