

# Proteome Factory

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**Founded (year)** 2000

**Type of Laboratory** Protein analytical and mass spectrometry lab

**Areas of Activity** High quality proteomics, protein analytical and high resolution mass-spectrometry-based (Orbitrap, FTMS) contract research and fee-for-service:

- Protein analysis, quality control
- Protein identification and characterization
- Mass determination
- Targeted protein quantification
- Antibody and protein sequencing
- N-terminal and C-terminal sequencing
- Proteomics protein profiling, biomarker discovery
- Host cell protein analysis
- Metabolomics
- Exact mass determination of small molecules
- Multiplex immunohistochemical detection of biomarkers/tumor markers in (cancer) tissue using laser ablation ICP-MS

**Request for  
Further Collaborations**

Proteome Factory is seeking collaborations with pharma, biotech, food and plant breeding companies and institutes for contract research projects worldwide.

## ► Company Profile

Proteome Factory AG (PFA) is a Berlin-based contract research organization providing protein analysis, quality control, proteomics, metabolomics and high resolution mass spectrometric services to all fields of biological, biomedical and chemical research and recombinant/ therapeutic protein production. PFA provides a comprehensive array of chromatographic, electrophoretic, protein chemical and mass spectrometric techniques to match customer's analysis requirements with tailored solutions for their projects. Therefore, PFA is a preferred partner of customers from pharmaceutical, biotech, food, plant breeding and cosmetic industries and research institutes for R&D projects especially in the field of proteomics and biomarker discovery, quantification of proteins in products, drugs or biological samples, full amino acid sequencing of proteins (e. g. monoclonal antibodies) and characterisation of (recombinant) proteins, biosimiliars and biobetters. Apart from contract research, PFA offers high quality fee-for-service analytical and mass spectrometric services which can be delivered as express services within 3 days or next-day service to accelerate customer's research. To guarantee highest accuracy in mass determination of small molecules, peptides or intact proteins, Proteome Factory only uses high resolution mass spectrometers, such as FT-ICR and Orbitrap systems.

## ► Analytical Services Portfolio

Accelerating your research and quality control by PFA's next-day service or express-service: protein identification, N-terminal and C-terminal sequencing, protein mass determination

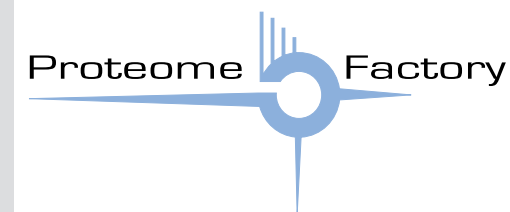
- Protein identification by highly sensitive nanoLC-ESI-MS/MS
- Protein mass determination by ESI-MS
- Protein sequence verification and characterisation (primary sequence, disulphide bridging and glycosylation pattern)
- Characterisation of biopharmaceuticals: extent of deamidation, oxidation and other critical parameters
- Characterisation of protein glycosylation
- PTM mapping and characterisation

- *De novo* sequencing for novel proteins and antibodies by classic approaches (Edman degradation) and modern MS-based methods
- Comparative proteomics, protein profiling and biomarker discovery (e. g. serum-, phospho-, immuno-, plant-proteomics by two-dimensional electrophoresis (2DE) or LCMS based techniques (label-free, SILAC, iTRAQ™, TMT™)
- Targeted quantification of single or multiple proteins in drugs, protein extracts, tissue or body fluids by stable isotope dilution LCMS analyses
- HCP Host cell protein assays by ultra-sensitive high resolution LCMS and fluorescence labelling 2DE
- Multiplex immunohistochemical detection of biomarkers/tumor markers in (cancer) tissue using metal tagged (MeCAT) antibodies and laser ablation ICP-MS
- Absolute protein quantification via MeCAT metal tagging approaches
- Exact mass determination of chemical synthesis products to elucidate their molecular formula
- Metabolomics and metabolite profiling by high resolution LCMS
- Quantification of organic compounds by isotope dilution LCMS

## ► Products

- *spotXpress* – high throughput spot picking robot for electrophoresis gels. Options for fluorescence detection and further sample processing, such as in gel proteolysis, are available
- *FireSilver* – MS-compatible protein silver staining kit for sensitive visualization and optimized results in protein identification
- *FireRuth* – MS-compatible protein fluorescent staining for highly sensitive visualization
- *MeCAT* – multiplex metal tagging kit for proteins. Lanthanide coding allows for exact and sensitive quantification of proteins from complex samples by element mass spectrometry
- *LA ink* – printing system of spiked inks for quantification and standardization in laser ablation ICP-MS-mediated approaches

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