# Core Facility Proteomic Mass Spectrometry MARTIN-LUTHER-UNIVERSITÄT HALLE-WITTENBERG



# Service Capability and Standard Costing

## Instrumentation

### Peptide work

ThermoFisher Exploris 480 with Ultimat3000 LC

#### **Intact Proteins**

Waters Synapt G2s Q-TOF with M-Class Acquity UPLC

#### **MRMs**

 Waters Xevo TQD with nanoAcquity LC (in cooperation with Department of Enzymology Mike Schutkowski's Lab)

# Simple peptide/ small molecule

- Bruker ultrafleXtreme TOF/TOF

#### Further equipment

- Gel electrophoresis
- BioDrop
- Opentrons 2

#### Software

#### Mascot Server

- ProteomeDiscoverer (with OpenMS nodes)
- Byonic Search Engine
- PEAKS studio
- PLGS and ISOQuant
- Intact MassTM
- Scaffold Q+S
- MaxQuant
- Perseus
- Skyline (with MSStats)
- R for Proteomics

# Typical Project Workflows

- In-Gel digestion and protein identification
- Intact protein mass measurement
- Protein characterisation (mutants/ domains/ recombinants/ termini etc.)
- Full gel lane analyses
- Small molecule MALDI measurements
- (Post) Affinity purification analyses
- (Post) Co-Immunoprecipitation
- Label and label-free quantitation (TMT tags, Label-free DDA & DIA)
- Single and multiple reaction monitoring (SRM, MRM)
- Large-scale discovery proteomics & validation
- PTM characterisation and localisation

The core facility has the capability to provide a full spectrum analysis from sample clean-ups through to statistical analyses and to contribute sections/materials & methods/figures for publications. It is essential that every user fully discusses their project or analytical aim with a facility representative. A project agreement sheet must be completed and signed before analyses can be performed.

#### Price List

Task Performed	Unit €
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In Gel Digest	7
USP3	10
C18	10
TiO <sub>2</sub> spin columns	10
High pH Fraction columns	10
SCX column	10
MALDI spot (legacy)	12
nanoESI (per hour)	25
Protein ID	15
Intact Mass Decovolution	15