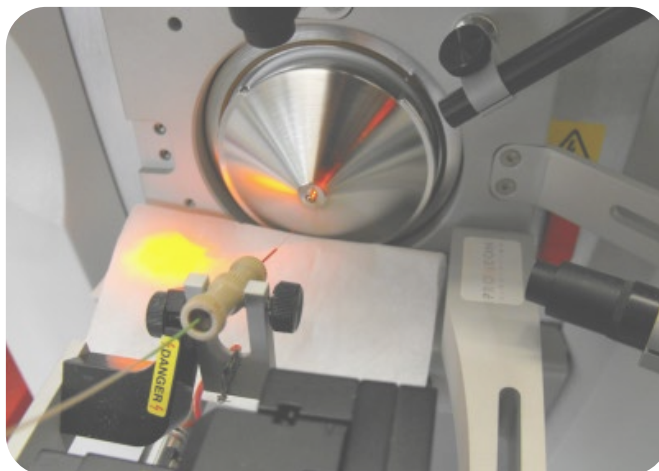


## COURSE

# Advanced Proteomics

1 – 4 July 2025

Wageningen Campus, the Netherlands



### BACKGROUND COURSE

Mass spectrometry (MS)-based proteomics is the most comprehensive approach for the quantitative profiling of proteins, their interactions, and modifications. Proteomics is the study of the proteome, the set of proteins expressed in an organism. The proteome can change dramatically depending on the developmental stage, biological conditions, and subcellular localisation. Proteomics is able to capture detailed snapshots of the proteome using mass spectrometry. The rapid development in technical advances of instrumentation has led to new bioinformatics approaches. In this course the focus will be on sample preparation, data analysis, and new methods in MS-based proteomics approaches.

### AIM

Participants will acquire the knowledge necessary to analyse proteomic data and effectively integrate the results into biological context research.

### TARGET GROUP

PhD candidates or Postdocs interested in this course should work on proteomics projects or plan to use proteomics in the near future and have a strong background in nutrition, biochemistry, physiology, molecular biology or a comparable discipline.

### PROGRAMME TOPICS

The course is a 4-day long hands-on course and a combination of lectures and hands-on practicals on sample preparation, mass spectrometry and computational proteomics;

- Sample preparation protocols
- Proteomics instrumentation
- Quantitative techniques
- Computational proteomics
- New mass spectrometric tools in proteomics

### COURSE LECTURERS

- Dr Elwira Smakowska-Luzan, Laboratory of Biochemistry, WUR
- Dr Mark Roosjen, Laboratory of Biochemistry, WUR
- Sjeff Boeren, Laboratory of Biochemistry, WUR

### GUEST SPEAKERS

- Dr Tim Lambers, FrieslandCampina
- Dr Geert de Jaeger, VIB-UGent Center for Plant Systems Biology

### COURSE FEE

Affiliation	Early Bird Fee**	Regular fee**
WU PhD candidates*	€ 275	€ 325
Other PhD candidates / Postdocs & staff VLAG	€ 500	€ 550
other academic staff / Non-profit	€ 725	€ 775
Industry / For-profit	€ 1600	€ 1650

\* Affiliated with one of the Wageningen Graduate Schools, with an approved TSP



[www.vlaggraduateschool.nl/en/courses/course/pro25.htm](http://www.vlaggraduateschool.nl/en/courses/course/pro25.htm)