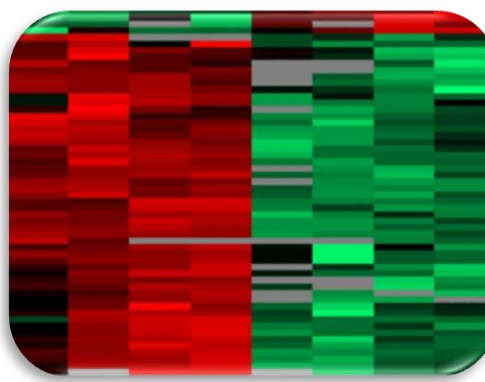
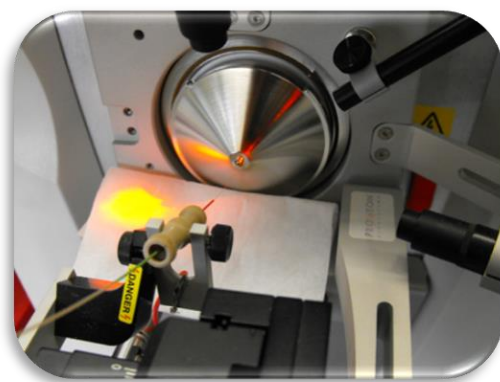


Advanced Proteomics

7-10 February 2023

Wageningen Campus, The Netherlands

organized by the Graduate School VLAG,
in co-operation with the Laboratory of Biochemistry,
Wageningen University & Research, the Netherlands



BACKGROUND

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 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.

AIM OF THE COURSE

Participants will learn;

- how to make a proteomics sample
- perform proteomic data analysis using MaxQuant
- integrate results into biological research.

PROGRAMME TOPICS & COURSE FORMAT

Topics;

- Sample preparation protocols
- Proteomics instrumentation
- Quantitative techniques
- MaxQuant and Perseus
- Integration of -omics data
- New mass spectrometric tools in proteomics

Course format;

We will schedule lectures on mass spectrometry and proteomics applications in the morning sessions and in the afternoon sessions practical work is scheduled. Each participant can bring their own sample as one slice or spot of a SDS protein 1 or 2D gel. Samples will be prepared by the participants and measured using splitless nano-LC Orbitrap FTMSMS.

COURSE LECTURERS & ORGANIZERS

Organization:

Dr Elwira Smakowska-Luzan, laboratory of Biochemistry, WUR
Sjef Boeren, laboratory of Biochemistry, WUR

Guest lecturers:

Prof. Maarten Altelaar - Netherlands Proteomics Centre, NL
Dr Carlo De Nart - Max Planck Institute of Biochemistry, GER
Dr Juan Luis Restrepo - Max Planck Institute of Biochemistry, GER
Dr Maria Suarez Diez - Systems and Synthetic Biology, WUR, NL
Dr Mark Roosjen - Laboratory of Biochemistry, WUR, NL

COURSE FEES¹

| | Fee |
|---|--------|
| WUR PhD candidates affiliated with graduate school: VLAG/EPS/WIAS/WIMEK/WASS/PE&RC | € 275 |
| All other PhD candidates/ postdocs WUR | € 500 |
| other academics/non profit organisations | € 725 |
| Professionals/Non academics | € 1600 |

¹ includes materials, lunches/tea/coffee and one course dinner

REGISTRATION & COURSE WEBSITE

For more information or to register:

www.vlaggraduateschool.nl/en/courses/course/PRO23.htm

For information contact:

Cornelia van Bree-Evers: cornelia.vanbree-evers@wur.nl



SCAN ME