



## Three-day course on Mass Spectrometry 2025

This three-day course will give a general introduction into mass spectrometry, with emphasis on applications in proteomics and biochemistry. The course is intended for anyone who needs or uses mass spectrometry now or in the near future, with a focus on PhD students. No previous knowledge about mass spectrometry is required.

Registration is € 80 for PhD students, technicians and scientists employed by RUG and UMCG, and for students of RUG and UMCG. Please provide a project code with your registration.

Registration by e-mail to Hjalmar Permentier at [h.p.permentier@rug.nl](mailto:h.p.permentier@rug.nl).

Deadline for registration: January 23, 2025.

Electronic handouts and links to the on-line sessions will be provided prior to the lectures to those who have registered by e-mail.

Venue: ERIBA building and building 3211, A Deusinglaan 1, Groningen.

### Monday January 27, 2025

Lectures by Hjalmar Permentier, 3226.0314 Marten Hofker zaal

9:00 – 12:00 General introduction, resolution, isotopes; Mass analyzers; Ionization techniques  
12:00 – 13:00 Lunch break

Lectures by Hjalmar Permentier, 3211.0004 Boeringzaal

13:00 – 14:30 LC-MS; Tandem mass spectrometry (MS/MS)

### Tuesday January 28, 2025

Lectures by Peter Horvatovich, 3211.0004 Boeringzaal

9:00 – 12:00 Fundamentals of peptide and protein identification & quantification by mass spectrometry; Introduction to metabolomics identification; Introduction to analysis of MS-based Omics data.  
12:00 – 13:00 Lunch break

13:00 – 13:30 Tour of the mass spectrometry facility (1<sup>st</sup> slot), start location: 3226.0 (lounge area)

13:45 – 14:30 Tour of the mass spectrometry facility (2<sup>nd</sup> slot), start location: 3226.0 (lounge area)

### Wednesday January 29, 2025

Lectures by Guinevere Lageveen-Kammeijer, 3226.0314 Marten Hofker zaal

9:00 – 12:00 Introduction to glycomics & glycoproteomics  
12:00 – 13:00 Lunch break

Lectures by Hjalmar Permentier, 3211.0004 Boeringzaal

13:00 – 14:30 Mass spectrometry in Groningen: practical aspects and guidelines for use of the Interfaculty Mass Spectrometry Center