



UNIVERSITY OF AVEIRO
DEPARTMENT OF CHEMISTRY & QOPNA

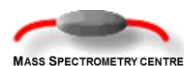
PRACTICAL COURSES ON MASS SPECTROMETRY

FROM THE BASICS TO LC-MS DATA ACQUISITION AND INTERPRETATION

4th EDITION
with invited
lecturers



2ND – 4TH OCTOBER 2017



COURSE GOALS

The course is intended for graduate students, postgraduate students and professionals who wish to learn about basic mass spectrometry and are willing to gather more information on modern analytical tools. This is a three day course that includes hands-on practical work in different mass spectrometers (MS and LC-MS), lectures, data analysis and mass spectra interpretation. Real-life practical exercises will provide fundamental skills to understand fragmentation pathways and evaluate the quality of mass spectra.

This is a valuable opportunity to learn the fundamentals and to keep up with the latest technology.

PARTICIPANTS

Graduate students and researchers interested in working with mass spectrometry in general and in the field of 'omics' (proteomics, metabolomics and lipidomics) in particular. No previous experience in mass spectrometry is required. Limited to 15 participants (minimum of 10).

TEAM

Pedro Domingues, *Professor*
Rosário Domingues, *Professor*
Eliana Alves, *Post-Doc*
Elisabete Maciel, *Post-Doc*
Ana Moreira, *Post-Doc*
Tânia Melo, *Post-Doc*
Cristina Barros, *Technician*
Daniel Ettlin, *CEO Unicam*

REGISTRATION

Fees: Professionals	430 €
RNEM Members	350 €
Graduate Students*	280 €

*PhD students and Post-docs

Deadline for payment: 22nd September 2017

Registration form: [click here](#)

MONDAY, OCTOBER 2ND

- 10:00 Opening
- 10:10 **Lecture: Basics on mass spectrometry and instrumentation**
- 12:30 Lunch
- 14:00 **Visit to mass spectrometer facilities (ion trap, orbitrap)**
- 15:00 **Lecture: Interpretation of MS spectra: what do you need to know?**
- 16:00 Coffee break
- 16:30 **Lecture: Interpretation of MS/MS spectra**

TUESDAY, OCTOBER 3RD

- 09:00 **Sample preparation for MS analysis: what do you need to know?**
- 10:00 **Hands-on practice: real-experiments in mass spectrometers**
- 11:00 **Hands-on practice: MS data acquisition**
- 12:15 Lunch
- 14:00 **Hands-on practice: MS data acquisition**
- 16:15 Coffee break
- 16:30 **Hands-on practice: interpretation of mass spectra**

WEDNESDAY, OCTOBER 4TH

- 09:00 **Hands-on practice: interpretation of mass spectra**
- 10:30 Coffee break
- 11:00 **Presentation and discussion of results**
- 12:30 Lunch
- 14:00 **Invited lecture: Dr. Daniel Ettlin (Unicam)**
- 15:00 **Invited lecture: Prof. Antonia García (CEMBIO, CEU San Pablo University, Madrid)**
- 16:30 **Concluding remarks and closing**

For further information, please contact:
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