



UNIVERSITY OF AVEIRO  
DEPARTMENT OF CHEMISTRY & QOPNA

# PRACTICAL COURSES ON MASS SPECTROMETRY

## FROM THE BASICS TO LC-MS DATA ACQUISITION AND INTERPRETATION

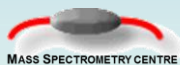


**2<sup>nd</sup> edition**

**Includes attending to  
5<sup>th</sup> Workshop in  
Lipidomics on June 1<sup>st</sup>**



**30 MAY – 1 JUNE 2016**



**Thermo**  
SCIENTIFIC

**UNICAM**  
Sistemas Analíticos, Lda.



Portuguese Mass  
Spectrometry Network

**FCT**

Fundação para a Ciência e a Tecnologia

## MAY 30<sup>TH</sup>

- 10:00 Registration
- 10:30 **Lecture: Basics on mass spectrometry and instrumentation**
- 12:30 Lunch break
- 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**

## MAY 31<sup>ST</sup>

- 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 Coffee break
- 11:30 **MS data analysis**
- 13:00 Lunch break
- 14:30 **Hands-on practice: real experiments in mass spectrometers**
- 16:00 Coffee break
- 16:30 **Hands-on practice: interpretation of mass spectra**

## JUNE 1<sup>ST</sup>

- 09:00 Seminars
- 10:30 Coffee break
- 11:00 Seminars
- 12:30 Lunch break
- 14:00 **5<sup>th</sup> Workshop in Lipidomics (more information will be released soon)**

**For further information, contact us:**  
[cbarros@ua.pt](mailto:cbarros@ua.pt) or +351 234 370692

## COURSE DESCRIPTION

The course is intended for graduate and 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 last 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*  
Ana Reis, *Post-Doc*  
Eliana Alves, *Post-Doc*  
Elisabete Maciel, *Post-Doc*  
Cristina Barros, *Technician*  
Daniel Ettlin, *CEO Unicam*

## REGISTRATION

|                     |       |
|---------------------|-------|
| Fees: Professionals | 400 € |
| RNEM Members        | 350 € |
| Graduate Students*  | 250 € |

\*PhD students and Post-docs

Deadline for payment: **30 April**

Registration form: [click here](#)