

# Course for Ph.D. students 38<sup>th</sup> cycle (TBD)

**Mass-spectrometry based lipidomics in pre-clinical and clinical research (2 ECTS)**

**Prof. Francesca Ferlenghi**  
*University of Parma*

*Course language: English.*

*Scheduling*  
**June 2023**

To attend the course please contact **Francesca Ferlenghi** [francesca.ferlenghi@unipr.it](mailto:francesca.ferlenghi@unipr.it) sending an e-mail from 15/4/2023 to 30/4/2023.

## **Course description**

The course will show the potential of mass-spectrometry based lipidomic analysis in both pre-clinical and clinical studies. PhD students will be given a general overview of the lipidomic workflow, including introduction to main lipid classes and their biological roles, experimental protocols for sample preparation and analysis, and techniques for data treatment. The second part of the course will focus on the analysis of a lipidomic dataset, with exercises in the computer laboratory to apply knowledge taken from the lessons.