Visiting Professor Program
Academic year 2022/2023

TEACHING COMMITMENT: 24 hours

COURSE TITLE
MASS SPECTROMETRY

TEACHING PERIOD
1st term

SCIENTIFIC AREA
Analytical Chemistry

LANGUAGE USED TO TEACH
English

COURSE SUMMARY
Applications of mass spectrometry to the analysis of biomolecules. approach to targeted and untargeted metabolomics. mass spectrometry imaging. application of ms to clinical studies and multi-omics.

LEARNING OBJECTIVES
Acquisition of competences in the field of mass spectrometry analyses. The objective of the course is to provide students with the principles for the development and application of methods based on mass spectrometry in the biochemical and biopharmaceutical fields.

TUTORSHIP ACTIVITIES
Graduate students tutorship with possibility of international exchange

LAB ACTIVITIES
Practical laboratory activities on orbitrap and triple quadrupole MS analyzers.
ADDITIONAL COURSE

COURSE TITLE
Advanced Mass Spectrometry

TEACHING PERIOD
2nd term

SCIENTIFIC AREA
analytical chemistry

LANGUAGE USED TO TEACH
English

COURSE SUMMARY

LEARNING OBJECTIVES
Acquisition of competences in the field of mass spectrometry analyses.

The objective of the course is to provide students with the principles for the development and application of metabolomics and MSI methods based on mass spectrometry in the biochemical and biopharmaceutical fields.

TUTORSHIP ACTIVITIES
Possible tutorship on international exchange students

LAB ACTIVITIES
Practical analysis and database searching activities

OTHER ACTIVITIES BESIDES THE COURSE
Metabolomics and MSImaging seminars
VISITING PROFESSOR PROFILE
The visiting professor should have a solid background and experience on biochemical mass spectrometry and a broad background in the field of -omics applications. He/she should have a solid experience in English teaching and be a well-known recognized scientist at international level. The Visiting Professorship will be a great opportunity for the students as they will be able to explore possibilities of training abroad and discuss scientific projects that they are currently working on.

CONTACT PERSON AT THE DEPARTMENT
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