Visiting Professor Program
Academic Year 2023/2024

TEACHING COMMITMENT: 16 hours

COURSE TITLE
Biological Mass Spectrometry

TEACHING PERIOD
1st term

SCIENTIFIC AREA
Chemistry

LANGUAGE USED TO TEACH
English

COURSE SUMMARY
Applications of Mass Spectrometry of the analysis of biomolecules. MS determination of Biomarkers. Approach to targeted and untargeted metabolomics and adductomics. 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.

OTHER ACTIVITIES BESIDES THE COURSE
Omics and MS project development 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 biomarkers determination by MS. 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.

FURTHER INFORMATION
Lessons and seminars could be held in co-presence with UNITO Professors.

CONTACT REFERENT
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