UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

MALDI-MSI for biomedical applications

2627-121R-012

Title

MALDI-MSI for biomedical applications

Teacher(s)

Prof. Andrew Smith

Language

English

Short description

Matrix-assisted laser desorption/ionisation (MALDI) is one of the most widely applied Mass Spectrometry Imaging (MSI) techniques owing to its capability to analyse a wide range of bioanalyte classes (xenobiotics, metabolites, lipids, glycans and proteins). As such, the technique is a highly valuable tool in the field of biomedicine given that it is able to visualise cells within their native spatial context, mapping molecular alterations within heterogeneous and complex pathological environments.
In this course, the participants will receive: 1) Hands-on training regarding tissue preparation for biomedical MALDI-MSI studies. 2) Hands-on training with various software packages for the elaboration of real MALDI-MSI datasets of pathological tissue.

CFU / Hours

1 CFU / 8 hours

Teaching period

April or may 2027

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING