UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

An introduction to MALDI-MSI

2627-121R-013

Aims

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) An overview of the theoretical aspects which underpin the various aspects of MSI. 2) A theoretical overview of the biostatistical approaches for the management of MALDI-MSI data.

Contents

Detailed program

Prerequisites

Teaching form

Lectures

Textbook and teaching resource

Course materials provided by the instructor

Semester

Assessment method

Office hours

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING