

PAGés Training Course

Title: To know how to interpret MS profiles and MS/MS spectra of oligosaccharides (bilingual)

As part of its mission, the PAGés platform is offering training in the interpretation of glycomic MS and MSMS data (for up to ten people, 2 times a morning).

Please register by contacting PAGés (plateforme-pages@univ-lille.fr) by July 5 at the latest.

Objectives : Acquire the theoretical and practical skills necessary to assign the glycan structures from mass spectrometry-based analysis

Period and number of participants : 2 half days (from 9:30 am to 1 pm), 8 persons maximum

Date : July 9 and 10, 2024

Place : C9 Cité scientifique, room Jean-Montreuil

Public : Bac +5 (Academic User of Lille University)

Prerequisites : Basic knowledge in glycosylation and glycan structural analysis

Program

Understanding how to read MS data and how to decipher the glycan structures by analyzing MS/MS spectrum through understanding the MS/MS fragmentation pattern and biosynthesis pathway

General

- General reminder of the principle of mass spectrometry and its data (key components of different sources, analyzers, isotopic distribution, monoisotopic mass, m/z, and glycan fragmentation, ...)

Applications to sugars

- Understand the difference of ESI-MS and MALDI-MS data of native oligosaccharides, methylated derivatives, and chromophore or fluorophore coupling
- Analysis of MS/MS spectrum of permethylated oligosaccharides by knowing the fragmentation pattern

Data extraction

How to use the web tools or software

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Villeneuve d'Ascq le 11/06/2024