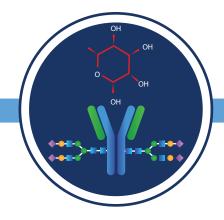
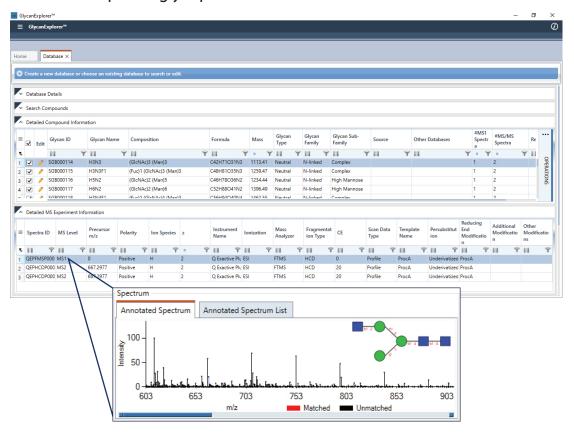


- High-Resolution Accurate-Mass Spectral Library of N-glycans from Therapeutic Glycoproteins
- Glycan Identification using Spectral Pattern Matching
- Glycan Identification using in-silico Fragment Matching
- Glycan Mapping



### **High-Resolution Accurate-Mass Spectral library**

The built-in reference mass spectral library contains mass spectra (MS1 and MS2) of glycans from various therapeutic glycoproteins.



### **The Glycoproteins**

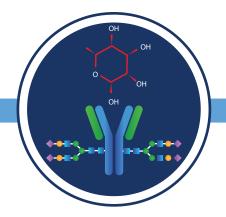
- Built-in spectral libraries for glycoproteins labeled with various fluorescent tags such as 2-AB, RapiFluor-MS, Procainamide
- Glycoproteins included:
  - mAb variants: Cetuximab, Ipilimumab, Infliximab, Pertuzumab, Golilumab, Nivolumab, and NIST mAb
  - Others: Apotransferrin, Orosomucoid, Ovalbumin, RNaseB etc.

#### **Database Statistics**

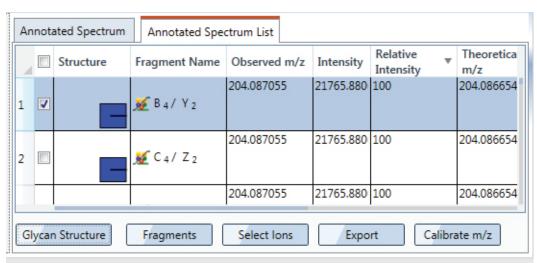
- 14 glycoproteins
- 10000+ MS/MS Spectra
- 200+ MS1 Spectra

#### Scalable Database

- 1. Store glycan structures along with retention times, and other experimental and chromatographic details as LC-MS templates
- 2. Store multiple spectra of a glycan belonging to different ion species acquired using different instrumental and experimental conditions
- 3. Create multiple custom database or LC-MS templates

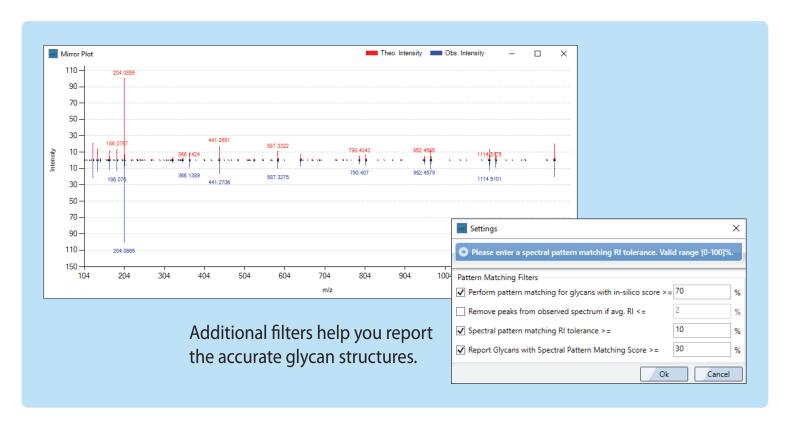


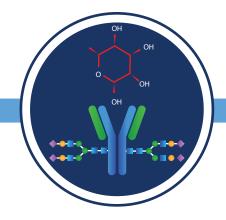
An efficient fragment m/z calibration facility allows you to create a High-Resolution Glycan Mass Spectral Library



#### **Spectral Pattern Matching**

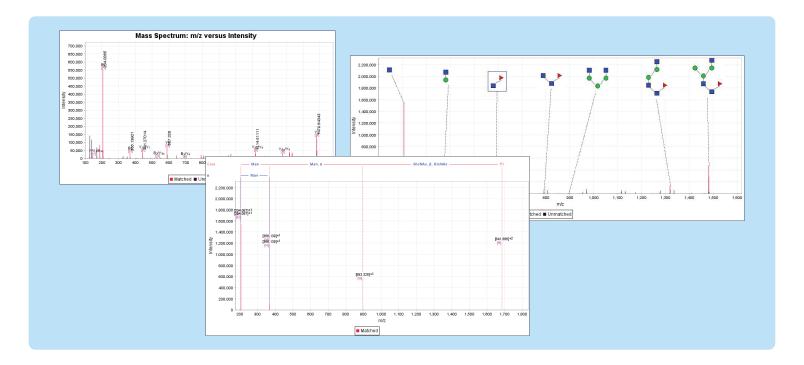
Accurate Identification of glycans using robust and reliable spectral pattern matching algorithm.





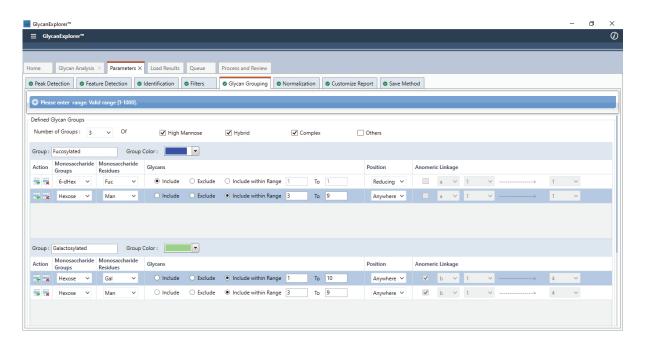
### in-silico Fragment Matching

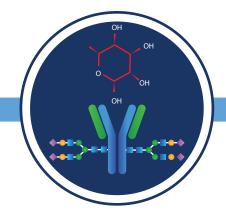
Identify glycans by matching the experimental fragment ions with in-silico fragment ions.



### **Glycan Grouping**

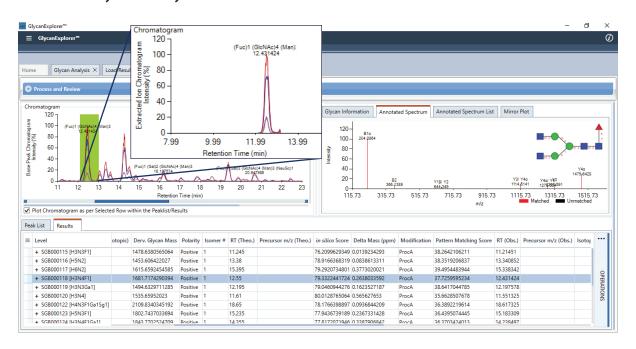
Classify the identified glycans in groups such as Fucosylated, Galactosylated, or Sialylated.

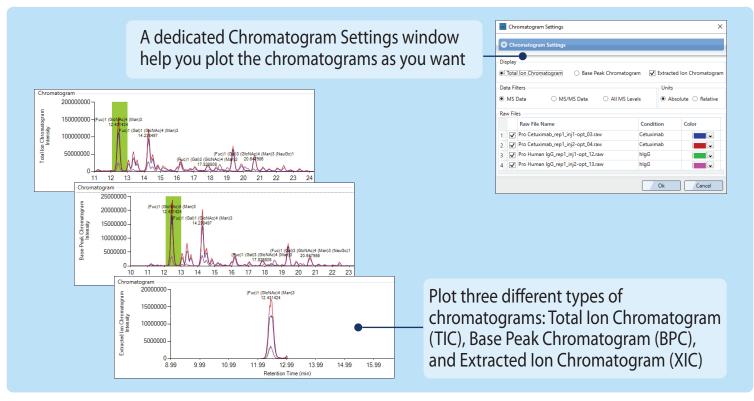


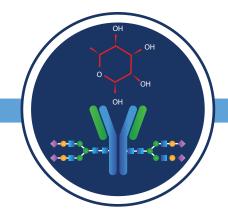


#### **Visualize Your Data**

A single workbench view of glycan IDs, associated chromatograms, and Spectra helps you easily review the result of your analysis.







#### **Glycan Mapping**

Interactive charts and plots tell you more about your data, help you reach a meaningful biological conclusion.

