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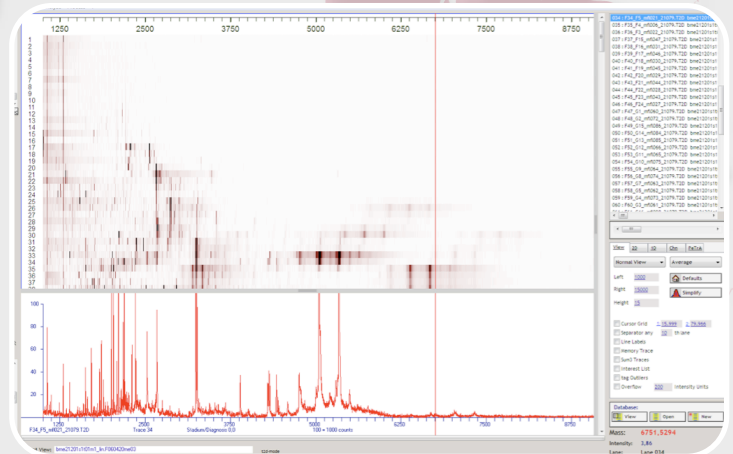
## SPECTROMANIA

**NEW  
SERVICE**

### VISUALIZATION OF MASS SPECTROMETRIC DATA

Data mining is usually defined as the process of analyzing data in a supervised or unsupervised manner to discover useful and relevant information that is hidden within complex data. After data acquisition, data analysis is possible by a plethora of data analysis tools, which are chosen depending on the purpose (e.g. detection/ comparison or identification). For the retrieval of significant mass spectrometric signals, uni- or multivariate statistics (e.g. partial least square analysis) are often employed. Additionally visualization of MALDI mass spectra is important to mine basic structures in the data.

Visual representation provides a vivid interface for the data analyst, helps to assess process related quality aspects (e.g. performance of separation, m/z de-calibration or presence of contaminants), and supports the process of knowledge extraction.



To visualize mass spectrometric data PXBioVision uses the software Spectromania. All mass spectra are combined for each individual sample to a two-dimensional display of peptides based on their molecular masses and elution characteristics. The intensity of each mass-spectrometric signal is translated into color intensity.

Availability: A demo version of Spectromania can be downloaded from our site. After registration you will receive the download link and instructions for installation.

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