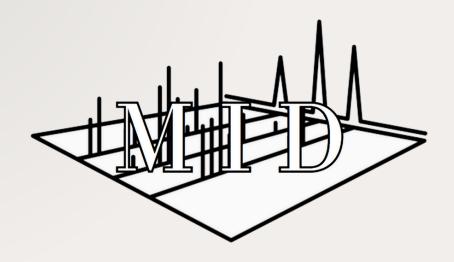
## Molecule\_ID based MSMS fingerprint Similarity



# ADD A SPECTRUM TO THE REFERENCE DATABASE.

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## TABLE OF CONTENTS

O1. EXPLANATION

O2. SPECTRUM ADDITION

#### **Explanation**

To obtain a model that is as reliable as possible, it is crucial to have a large reference database.

To achieve this, it is necessary to convert a RAW file to mzML format.

Once this conversion is completed, the spectrum must then be added to the dictionary.

This step enriches the database and improves the accuracy and reliability of the model.

### Spectrum addition

To convert raw data files to mzML format, it is necessary to open the command prompt and use the following command:

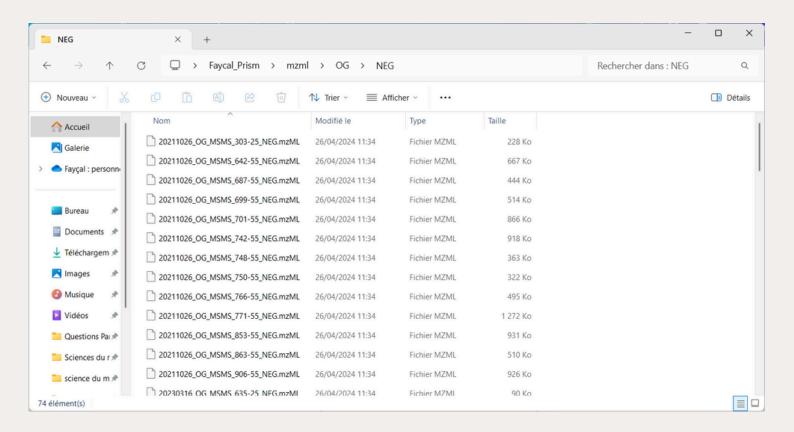
msconvert "\$raw\_file" --mzML -o "\$output\_directory".

However, before being able to execute this command, it is imperative to install ProteoWizard.

To do this, it is recommended to consult the user manual to ensure that the installation is correctly performed and that all necessary dependencies are met.

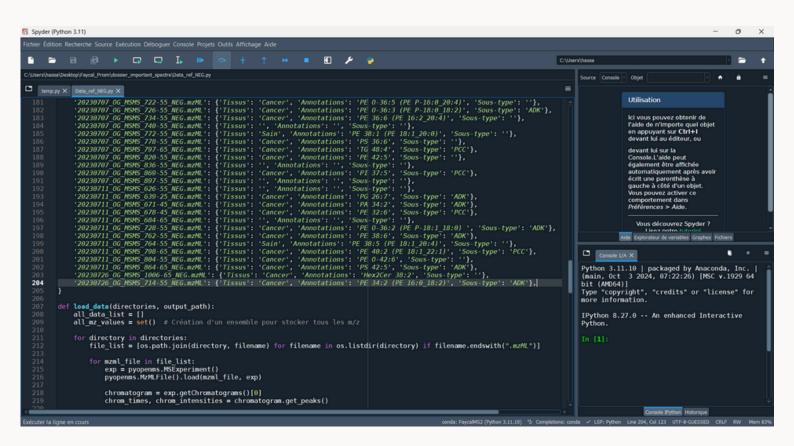
The next step is to move this newly created file to the directory where all other mzML files are stored.

This can be done by simply dragging the converted file into the appropriate folder.



This organization allows for the centralization of all mzML files in one location, thus facilitating their management and subsequent analysis. Now, you need to add an entry to the dictionary following this format:

"filename.mzML": {'Tissue': '', 'Annotations': '', 'Subtype': ''}.



Here, you can specify and provide additional information such as the type of tissue, relevant annotations, and the specific subtype of the mzML file.

Now, simply run the program to obtain the Parquet file, which will serve as the reference base for all subsequent analyses.