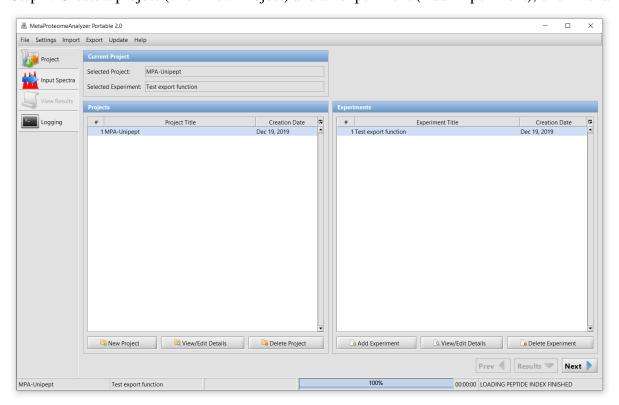
## <u>Supplementary</u> "Connecting MetaProteomeAnalyzer and PeptideShaker to Unipept for seamless end-to-end metaproteomics data analysis"

For experienced MPA users: steps 1 - 4 are identical for any MPA workflow. The added functionality is described in step 5.

Step 1: Create a project (click New Project) and an experiment (Add Experiment), click Next.



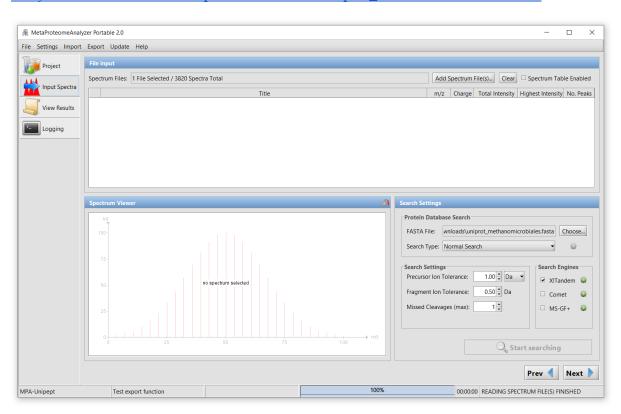
Step 2: Add a Spectrum file (dataset), a FASTA database of protein sequences, and fill in the search parameters. In this mini tutorial we used the Ebendorf data set on the GitHub page, performed a normal search and used X!Tandem as search engine. We allowed one missed cleavage.

## Dataset:

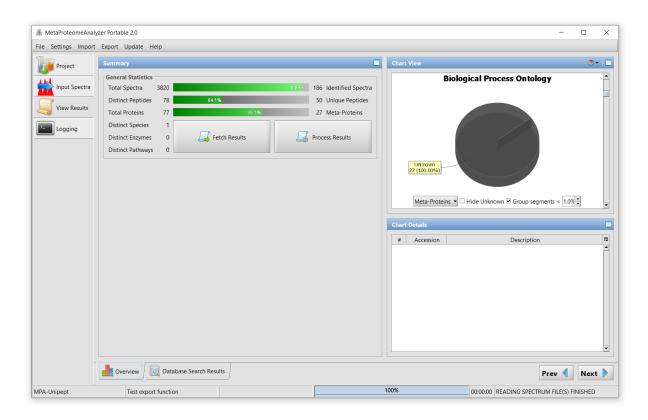
https://github.com/compomics/meta-proteomeanalyzer/raw/master/test/de/mpa/resources/Ebendorf1.zip

## FASTA database:

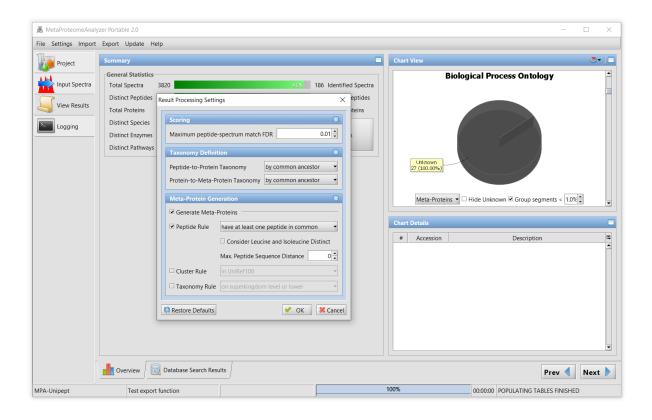
https://github.com/compomics/meta-proteomeanalyzer/raw/master/test/de/mpa/resources/fasta/uniprot\_methanomicrobiales.fasta



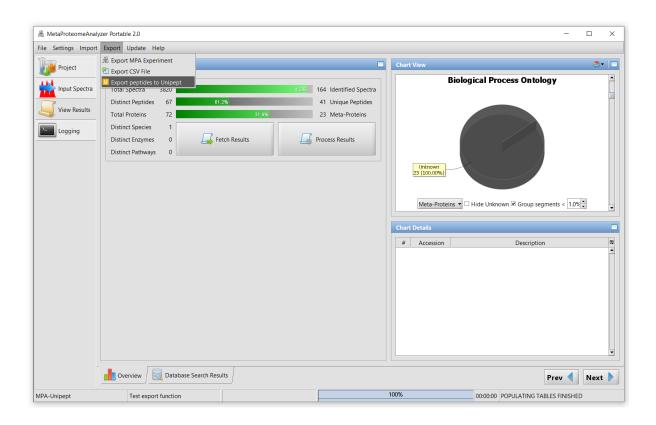
## Step 3: Click on Fetch results.



Step 4: Click on Process results. Check the maximum PSM FDR and adapt if necessary. In this tutorial, we change the FDR to 0.01.



Step 5: the peptides on 1% FDR are fetched and ready to be exported to Unipept. Click Export > Export peptides to Unipept.



Step 6: Unipept is opened in the browser with the identified peptides. Choose the preferred search settings for Unipept and click on Update. The taxonomic and functional results can now be viewed in the browser or exported to a .csv file.

