Ordination plot- Beta diveristy

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2024-03-06

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1 Ordination analysis

This tutorial would describe how to perform a Non-metric MultiDimensional Scaling (NMDS) ordination analysis, based on the total protein groups identified in a metaproteomics experiment. NMDS is a distance-based ordination technique, which summarizes the differences or similarities between each pair of sample using any number of response variables. This technique is broadly use in Microbial ecology and metagenomic, metatrascriptomics, metaproteomics and metabolomic analysis. For more details on ordination analysis please read Multivariate analyses in microbial ecology and [NMDS](https://uw.pressbooks.pub/appliedmultivariatestatistics/chapter/nmds/#:~:text=Non%2Dmetric%20

For the following analysis we require two data frames 1) metadata describing each sample metadata_metapro.txt and 2) the intensity of the different protein groups across the samples final_proteins.tsv. The protein groups data frame was obtained running a set of metaproteomic raw files in the iMetaLab software.

1.1 Set up working space and load data