

05_model_validation

Loïc Thurre

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0. Data Importation

1. DENOVO leave one out validation

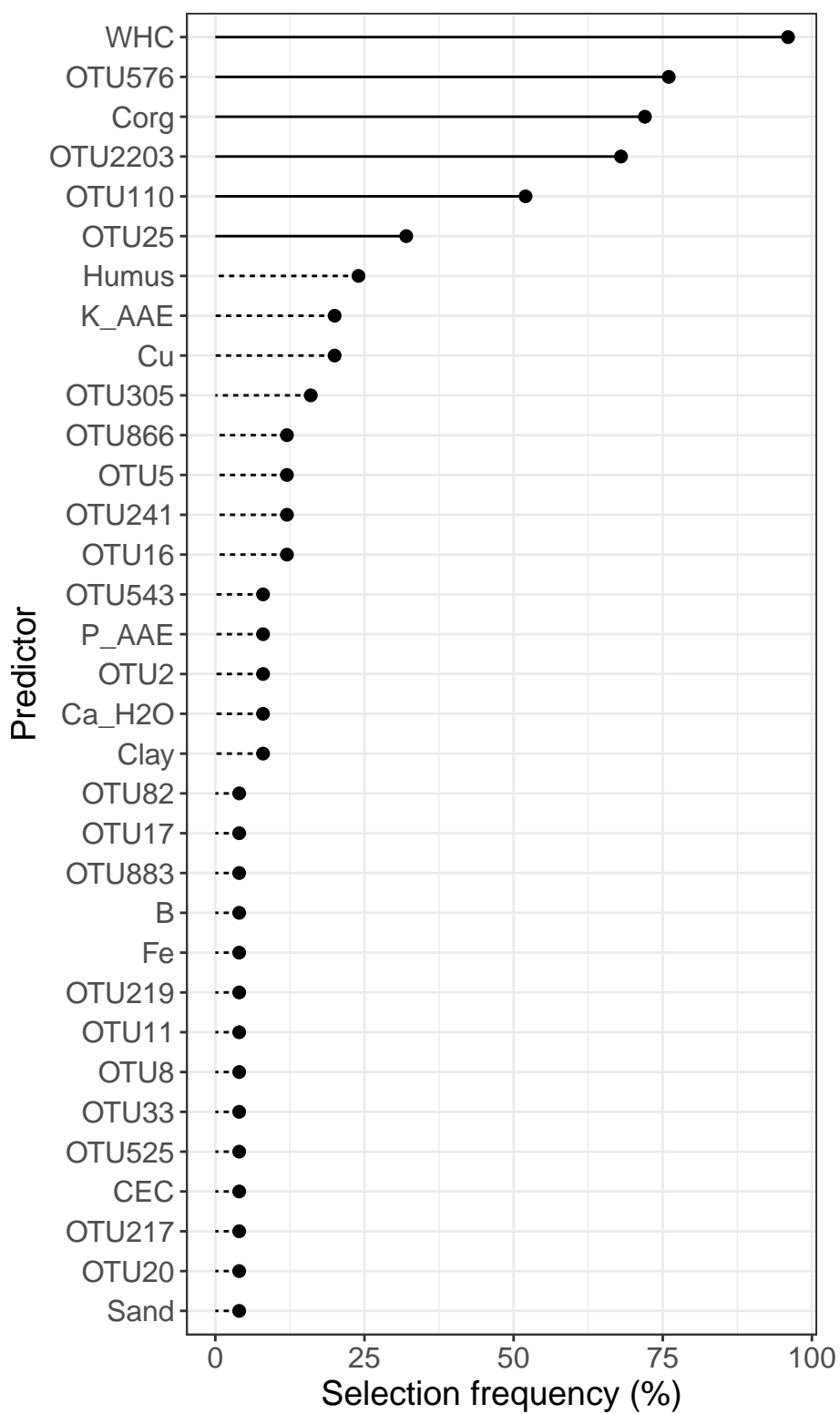
We computed the LOO validation on the whole approach, the following steps were executed on the N-1 dataset 1. Splitting between train (N-1) and test set (Nth) 2. Feature selection 3. Best physicochemical model 4. Best soil fungi model 5. Best combined model 6. Predictions and comparison with the Nth test site.

This script was executed on the sciCORE and is available in dataset S5 “loo_validation.R”. We report here the results and produce the corresponding graphs.

1.1 Predictors stability

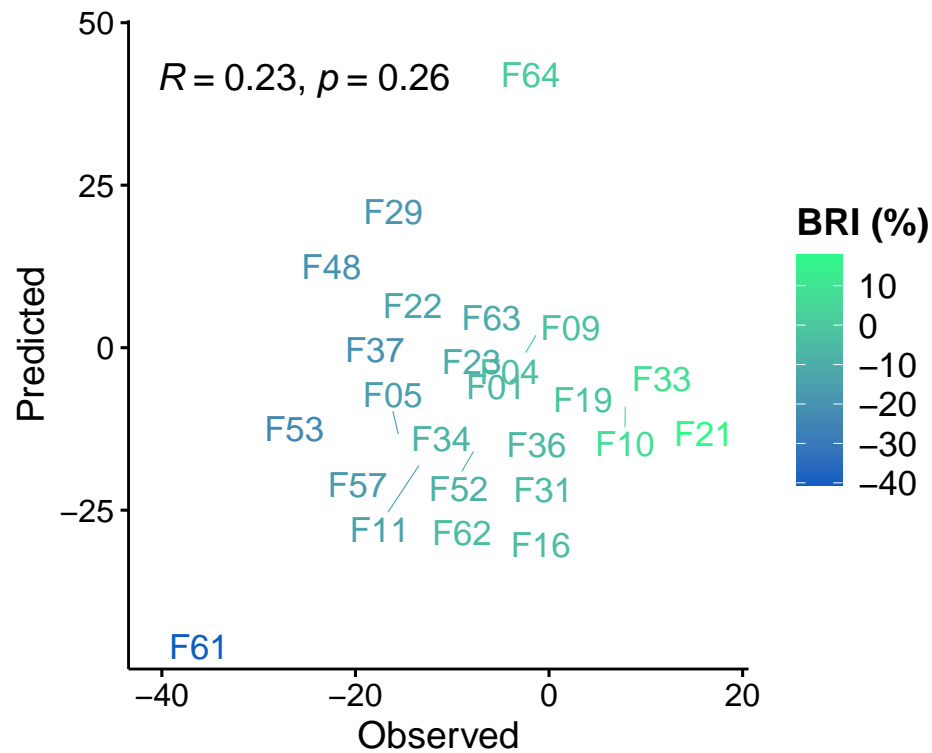
Selection frequency of predictors during DENOVO LOO selection. Counting the number of time a predictor is selected by our approach to compare with what was previously found in dataset S4.

1.1 Figure S6A



1.2 Figure S6C

Results of predictions with DENOVO parameters after leave one out validation



2. LOO with selected predictors

Leave one out validation on a model using the previously selected predictors from the combined model: WHC, Corg, OTU576, OTU2203, OTU110, OTU25

2.1 Figure S5B

Results of predictions after LOO validation with selected predictors.

