% of functional variance explained

Order of interaction, K

Weaker high-order interactions

Stronger high-order interactions

σ_β

$\overline{\beta}$

R^2 predictions vs. observations

0.0   0.5   1.0

R^2 predictions vs. observations

Ruggedness (r/s)

R^2

Prediction method:

1st order regression
2nd order regression
FEE concatenation

Empirical data sets:

Above−ground plant biomass
Phytoplankton biomass
Bacterial xylose oxidation
Bacterial starch hydrolysis
Bacterial butyrate secretion
Bacterial pyoverdine secretion