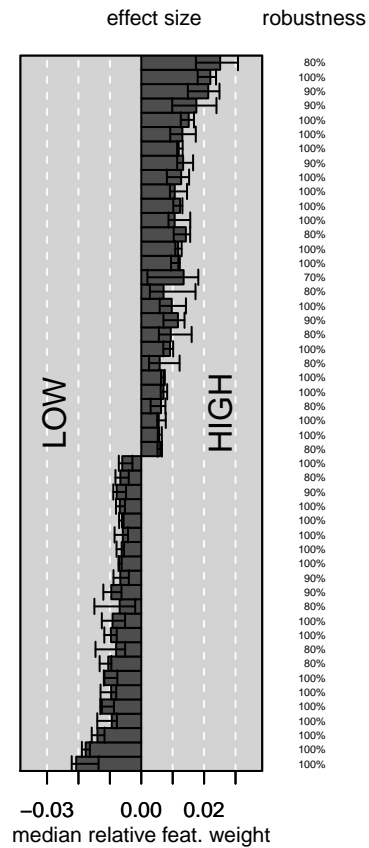


## Feature Weights

## Metagenomic Features

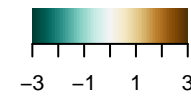
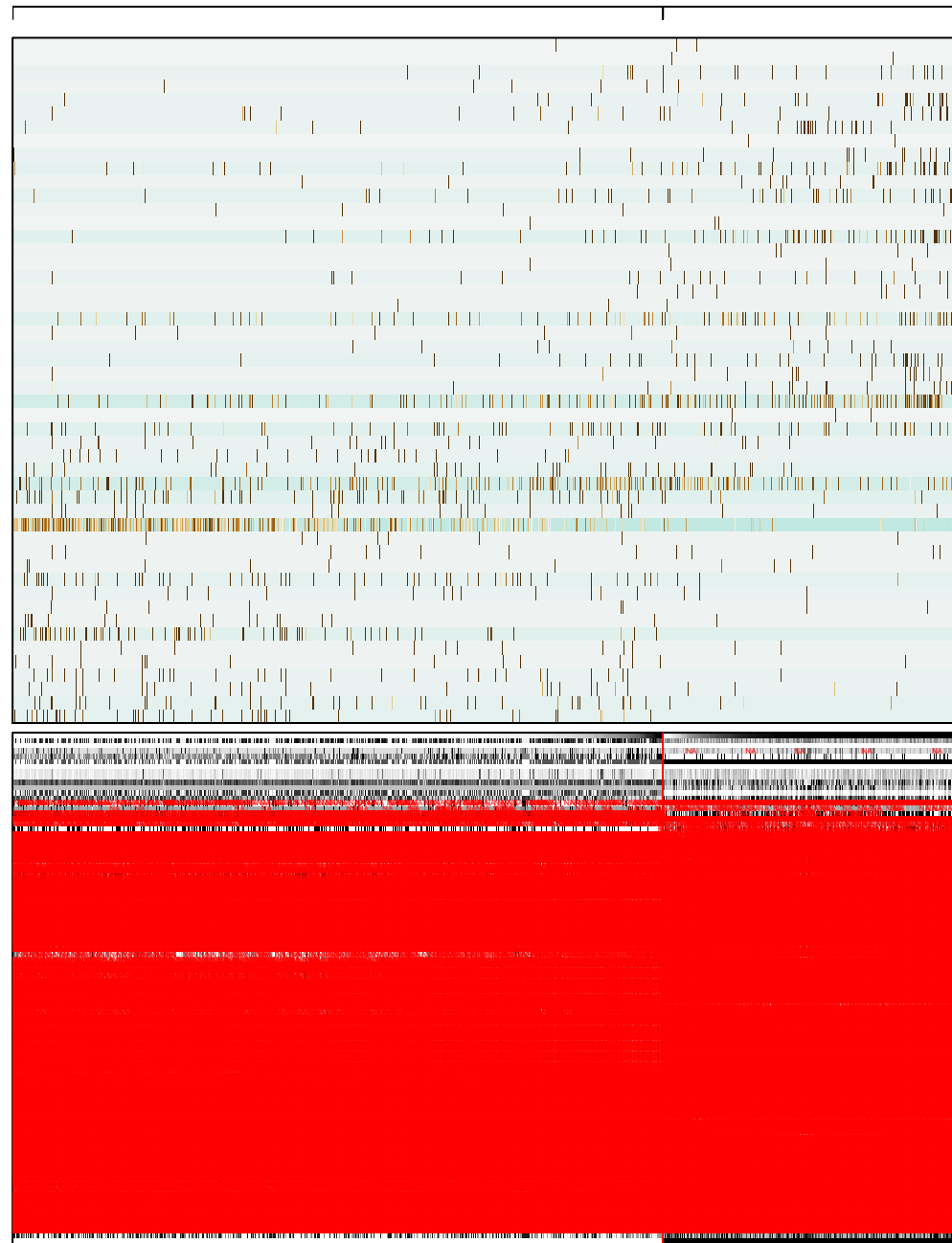
Feature z-score

lasso model  
( $|W| = 50$ )



LOW (n=963)

HIGH (n=456)



s\_Proteus\_penneri  
s\_Fusobacterium\_necrophorum  
s\_candidate\_division\_TMD7\_single\_cell\_isolate\_TM7c  
s\_Lactobacterium\_pseudolongum  
s\_Eubacterium\_infirmum  
s\_Lactobacillus\_fermentum  
s\_Citrobacter\_koseri  
s\_Alistipes\_sp\_IC136  
s\_Fusocentrum\_ulcerans  
s\_Lachnospiraceae\_bacterium\_6\_1\_63FAA  
s\_Serratia\_marcescens  
s\_Acidaminococcus\_intestini  
s\_Lactococcus\_garvieae  
s\_Parabacteroides\_sp\_20\_3  
s\_Eubacterium\_dolichum  
s\_Weissella\_confusa  
s\_Bacteroides\_fluxus  
s\_Streptococcus\_cristatus  
s\_Abiotrophia\_defectiva  
s\_Anaerostipes\_sp\_3\_2\_56FAA  
s\_Porphyrionas\_asacharolytica  
s\_Lactobacillus\_crispatus  
s\_Pseudomonas\_aeruginosa  
s\_Clostridium\_sporiforme  
s\_Parvimonas\_micra  
s\_Peptostreptococcus\_stomatis  
s\_Eubacterium\_sp\_3\_1\_31  
s\_Ureaplasma\_parvum  
s\_Streptococcus\_mutans  
s\_Porphyrionas\_somerae  
s\_Propionococcus\_lugdunensis  
s\_Staphylococcus\_freudenreichii  
s\_Coproacter, fastidiosus  
s\_Lactobacillus\_delbrueckii  
s\_Dialister\_succiniphilus  
s\_Bifidobacterium\_breve  
s\_Shigella\_sonnei  
s\_Acidaminococcus\_fermentans  
s\_Lactobacillus\_iners  
s\_Leuconostoc\_mesenteroides  
s\_Lactobacillus\_sakei  
s\_Leuconostoc\_lactis  
s\_Neisseria\_sulfitava  
s\_Streptococcus\_pertosis  
s\_Pedococcus\_pentosaeus  
s\_Coprobaillus\_sp\_D6  
s\_Leuconostoc\_pseudomesenteroides  
s\_Marvinbryantia\_fortmexigens  
s\_Lactobacillus\_plantarum  
s\_Lactococcus\_raffinolactis

[illegible]