library(microeco)

library(ggplot2)

library(readxl)

library(openxlsx)

library(tibble)

####加载数据，包括OTU特征表、样本信息以及物种分类表

otu <- read\_excel("OTU-MPs.xlsx", sheet = "otu")

tax <- read\_excel("OTU-MPs.xlsx", sheet = "tax")

sample <- read\_excel("OTU-MPs.xlsx", sheet = "sample")

sample <- column\_to\_rownames(sample, var = colnames(sample)[1])

##构造microtable

df<-microtable$new(sample\_table=sample,

otu\_table=otu,

tax\_table=tax,

auto\_tidy=F)

df

alpha<-trans\_alpha$new(dataset=df,group="group")

alpha<-trans\_alpha$new(dataset=df)

alpha$data\_alpha

openxlsx::write.xlsx(alpha$data\_alpha, file = "a1.xlsx")