Supplement: Beyond compositionally in high throughput sequencing; estimating the importance of scale in data analysis with ALDEx2

Greg Gloor, Michelle Pistner Nixon, Justin Silverman [*1]

[1]Dep't of Biochemistry, University of Western Ontario, Penn State

[*]ggloor@uwo.ca

21 August 2023

Abstract

Introduction to scale simulation and FDR correction with ALDEx2.

Package

ALDEx2 1.33.1

Contents

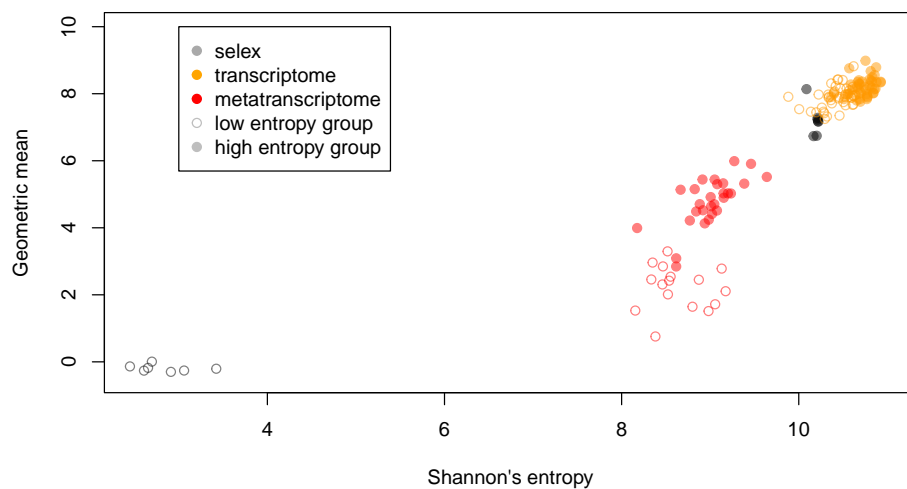# 1 GM is correlated with Shannon's entropy and includes

Figure 1: Plot of Shannon's entropy (I) vs geometric mean (G) for each sample in three different datasets
The groups that each sample belong to are highlighted as filled or open circles. Each group in each dataset has different entropy with the groups in the selex and metatranscriptome datasets being highly distinct.

```
load('analysis/x.s.mu.all.Rda')
load('analysis/x.all.Rda')

par(mfrow=c(1,2))
aldex.plot(x.s.mu.all)
aldex.plot(x.all)
```