

DESeq exercise



use
drugs

get
clean



have
pups



pups eat high fat
and sugar diet



controls

controls eat high fat
and sugar diet



DESeq exercise

Load the data set `ratcounts.txt` and `ratSampleAnnot.csv`.

In your groups, follow the example in Ch 8.5 (<https://web.stanford.edu/class/bios221/book/>) to analyze differential expression between the MF samples (morphine plus high fat diet) and SF samples (saline control on high fat diet).

Questions to consider:

1. Are there any samples that appear to be outliers in PCA?
2. Does the variance change with mean expression (MAplot)?
3. Are any genes “significantly” differentially expressed? (and what does “significantly” mean?)
4. Do the p-values follow the expected distribution?