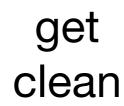
DESeq exercise



use drugs





have pups



pups eat high fat and sugar diet



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?