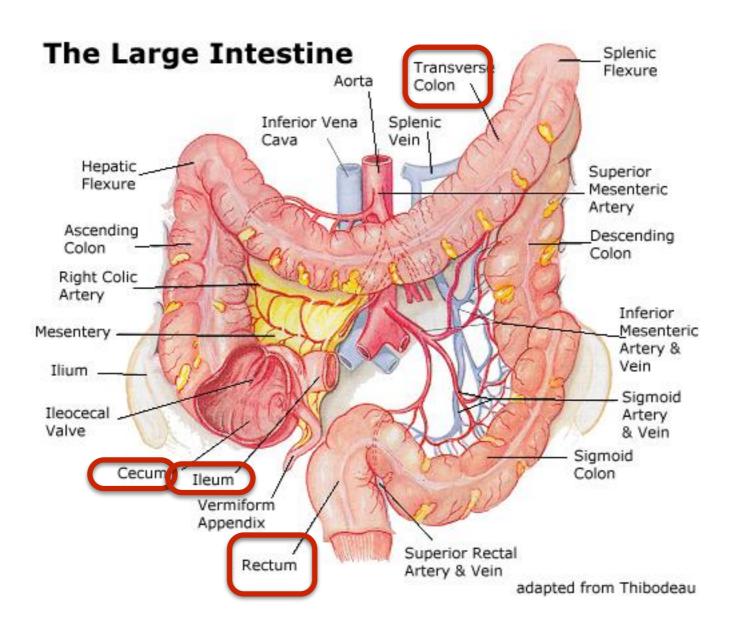
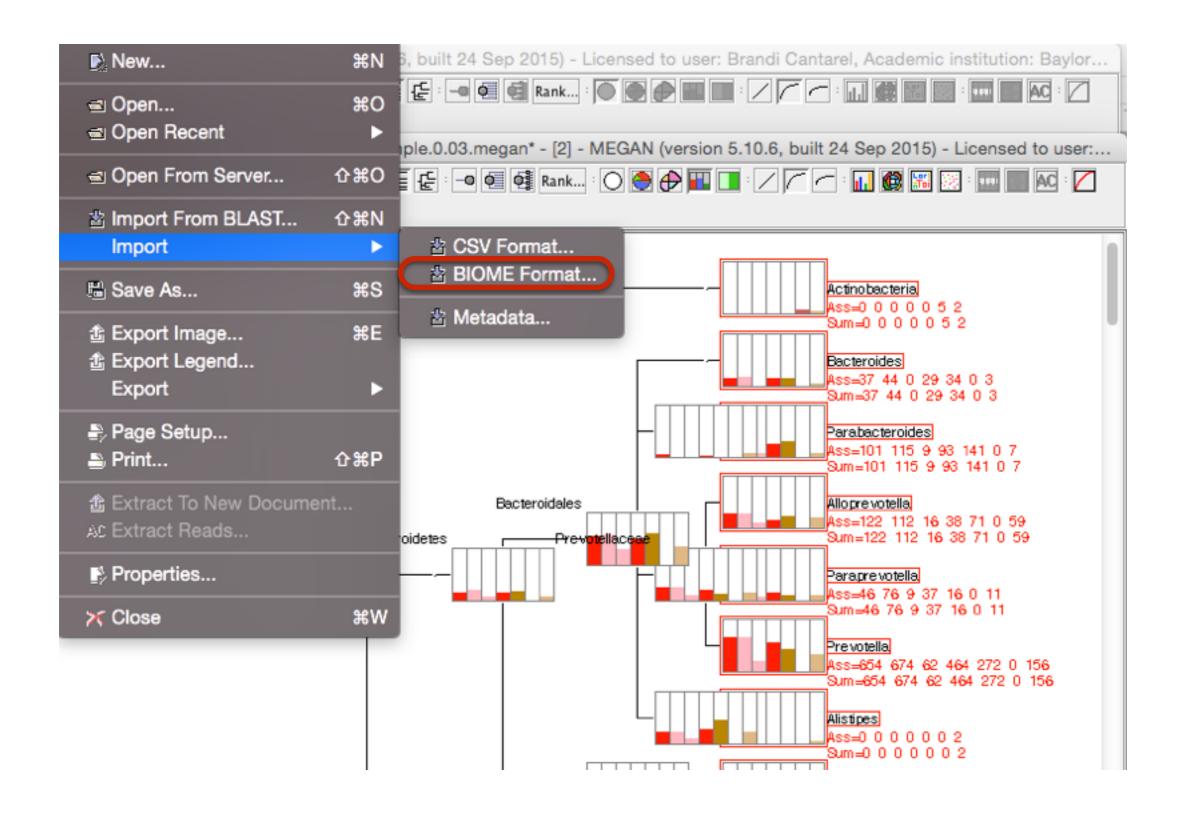
Metagenomic Visualization

Using MEGAN

http://ab.inf.uni-tuebingen.de/data/software/megan6/download/manual.pdf



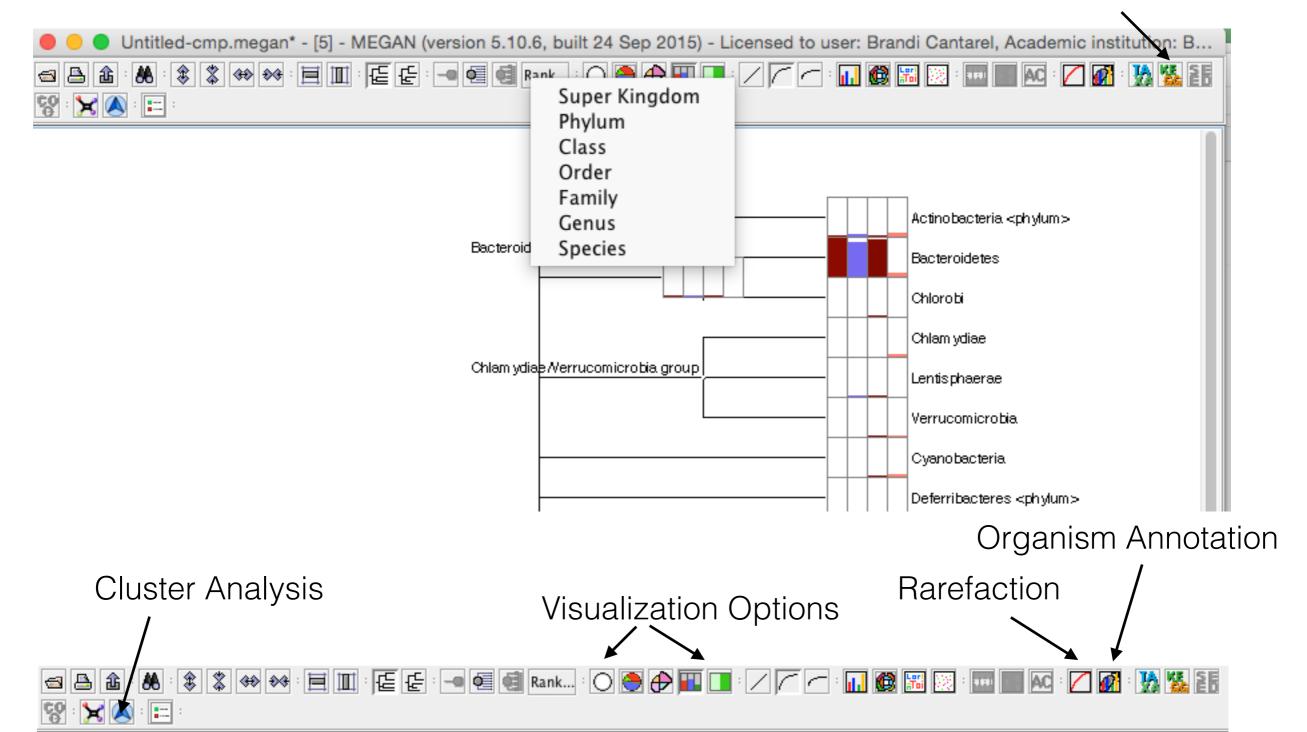


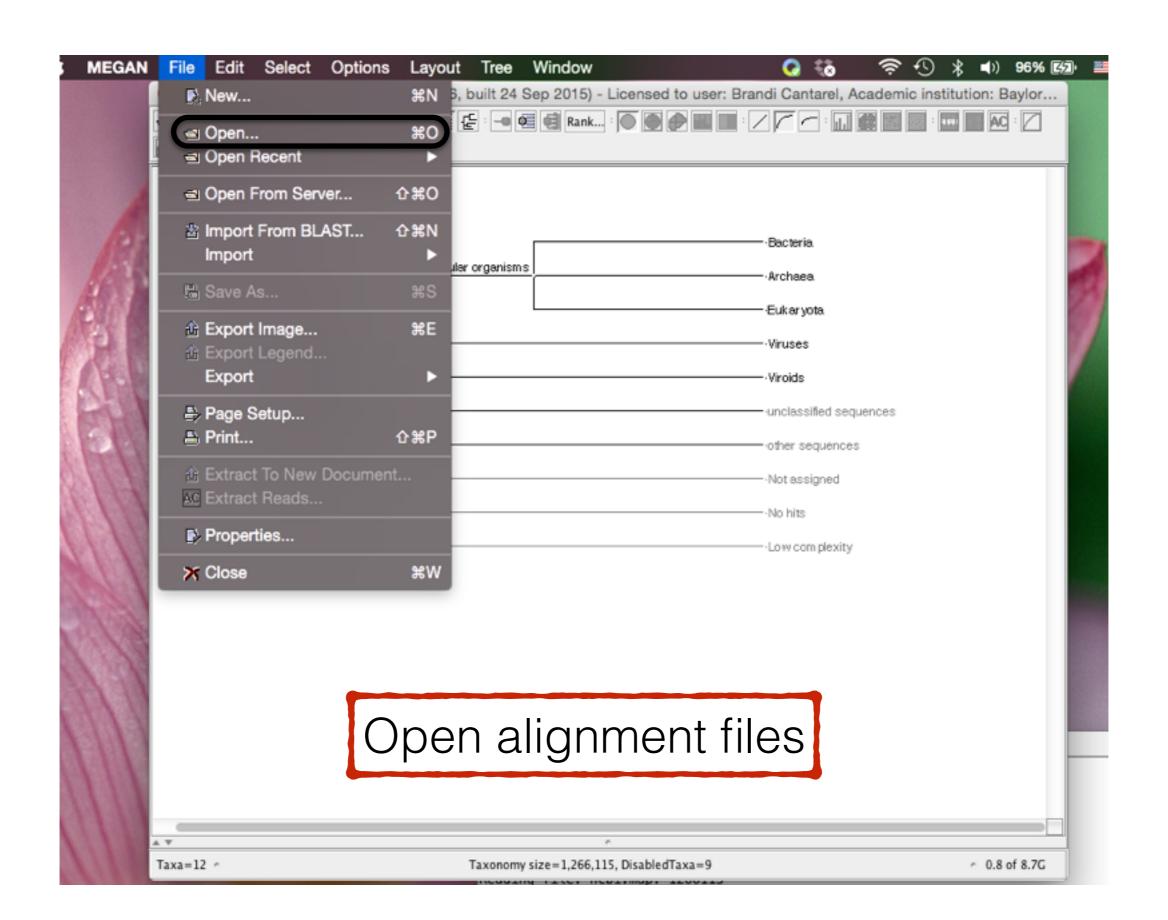
16S Taxonomic Comparison

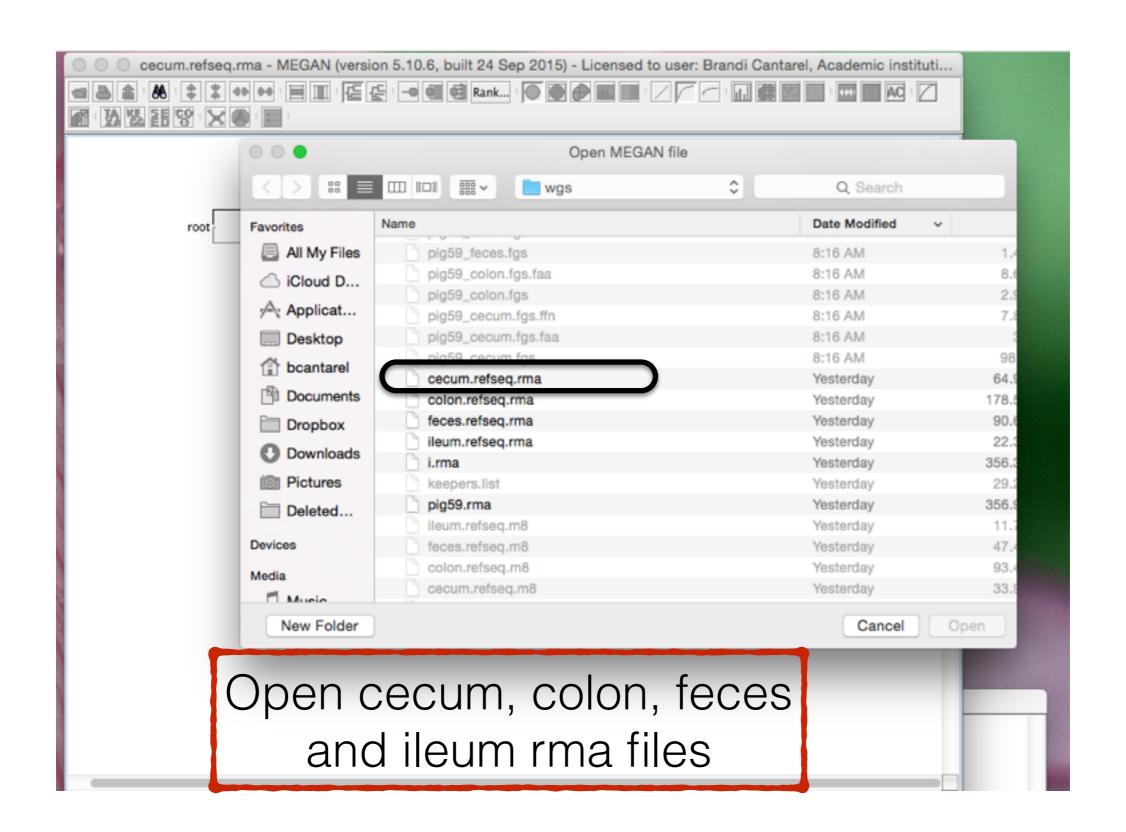
- What are the dominate phyla, family and genera for each sample?
- Are sites that are closer (spatially) also closer taxonomically (use cluster analysis)?
- What fraction of each samples is "unclassifed" taxonomically?

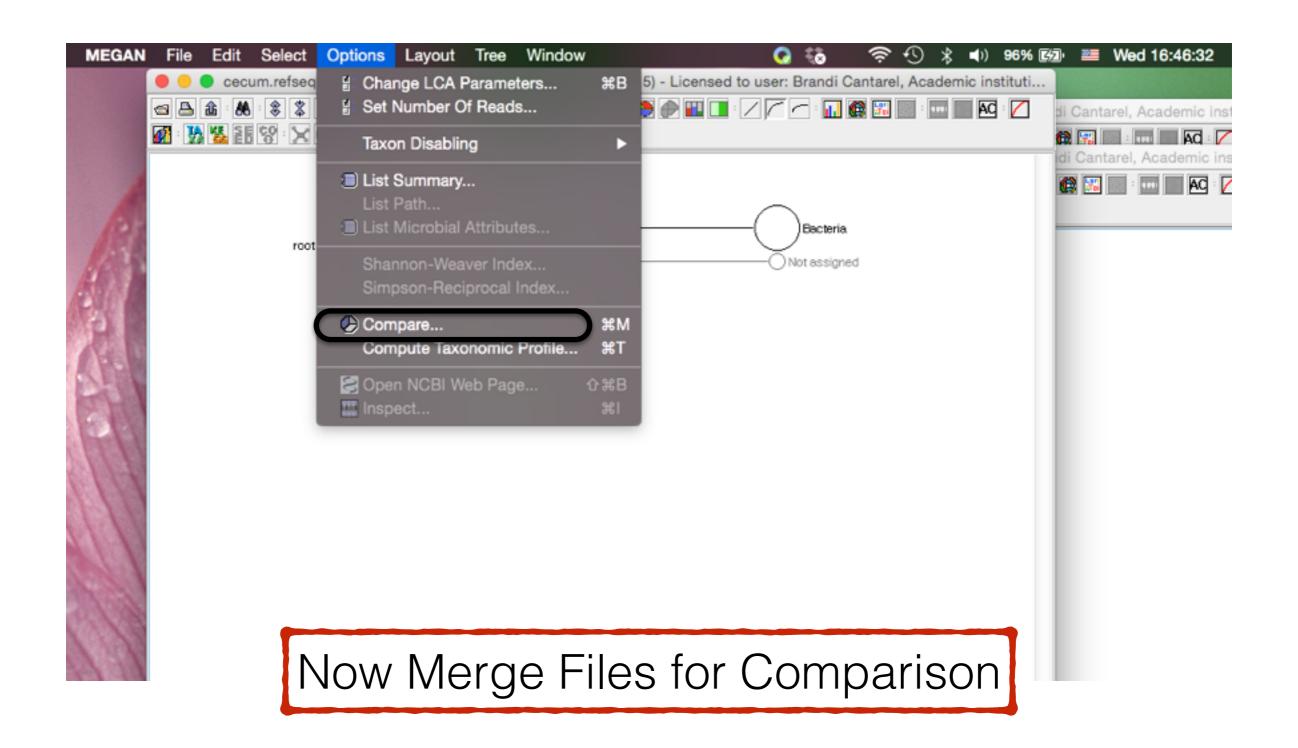
Some Tool Options

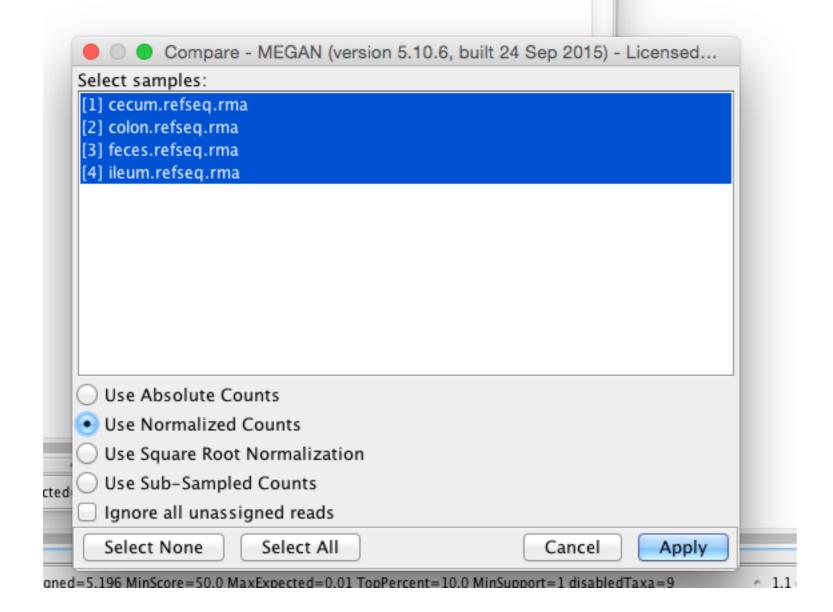
Gene Annotation









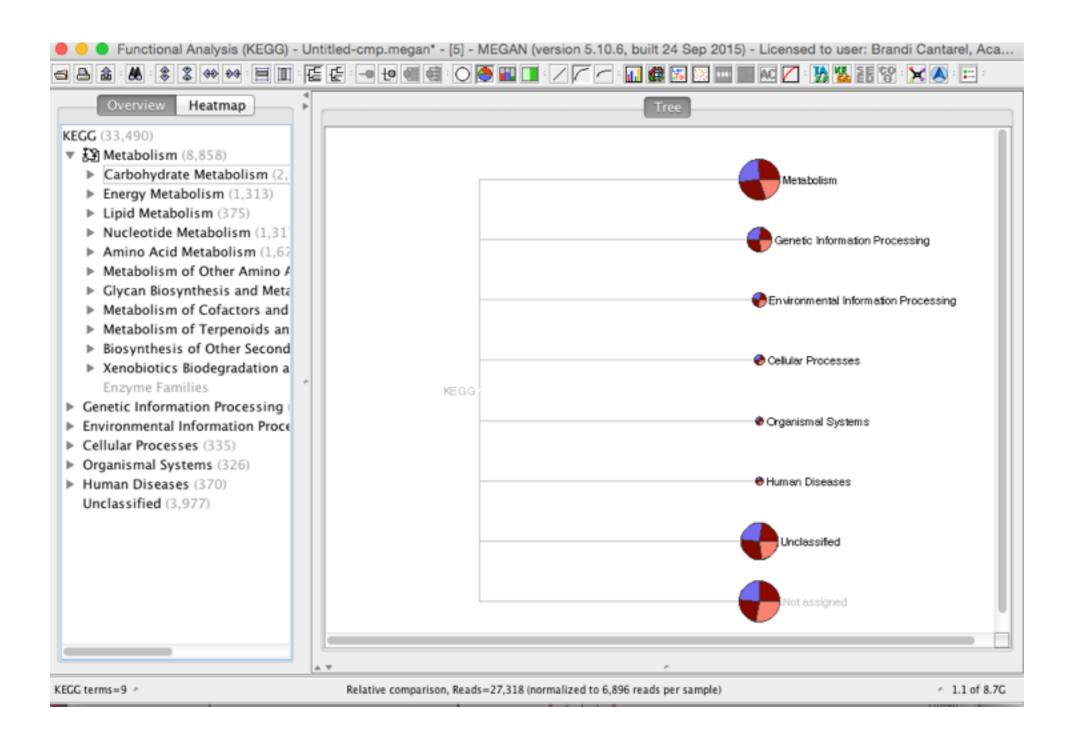


Select all files and select normalized counts

WGS Taxonomic Comparison

- What are the dominate phyla, family and genera for each sample?
- Are these dominate taxa consistent with 16S results?
- Are sites that are closer (spatially) also closer taxonomically (use cluster analysis)?
- What fraction of each samples is "unclassifed" taxonomically?

Functional Exploration



Functional Exploration

- Pick a pathway from Carbohydrate Metabolism or Glycan Biosynthesis and Metabolism.
- How does the abundances of the genes in your pathway compare between the 4 body sites?
- Now pick a pathway from Genetic Information Processing
- Are the abundances more or less similar between body sites in your chosen sugar metabolism pathway compared to Genetic Information Processing?
- Run KEGG Cluster analysis, how does functional clustering compare to clustering by Taxa?
- What fraction of each samples is "unclassifed" functionally?