#Differential abundance testing (ANCOM)

qiime composition add-pseudocount \

--i-table ~/FL103/DADA2\_350\_unfiltered/table\_filtered.qza \

--o-composition-table ~/FL103/DADA2\_350\_unfiltered/table\_filt\_pseudocount.qza

qiime composition ancom \

--i-table ~/FL103/DADA2\_350\_unfiltered/table\_filt\_pseudocount.qza \

--m-metadata-file ~/FL103/FL103\_MapFile.txt \

--m-metadata-column Trt \

--o-visualization ~/FL103/DADA2\_350\_unfiltered/diversity\_DADA2\_nomock/ANCOM\_table\_treatment.qzv

qiime composition ancom \

--i-table ~/FL103/DADA2\_350\_unfiltered/table\_filt\_pseudocount.qza \

--m-metadata-file ~/FL103/FL103\_MapFile.txt \

--m-metadata-column Trt2 \

--o-visualization ~/FL103/DADA2\_350\_unfiltered/diversity\_DADA2\_nomock/ANCOM\_table\_treatment2.qzv

qiime composition ancom \

--i-table ~/FL103/DADA2\_350\_unfiltered/table\_filt\_pseudocount.qza \

--m-metadata-file ~/FL103/FL103\_MapFile.txt \

--m-metadata-column Trt3 \

--o-visualization ~/FL103/DADA2\_350\_unfiltered/diversity\_DADA2\_nomock/ANCOM\_table\_treatment3.qzv

#Collapse at genus level and re-run

qiime taxa collapse \

--i-table ~/FL103/DADA2\_350\_unfiltered/table\_filtered.qza \

--i-taxonomy ~/FL103/DADA2\_350\_unfiltered/taxonomy.qza \

--p-level 6 \

--o-collapsed-table ~/FL103/DADA2\_350\_unfiltered/table\_filtered-L6.qza

qiime composition add-pseudocount \

--i-table ~/FL103/DADA2\_350\_unfiltered/table\_filtered-L6.qza \

--o-composition-table ~/FL103/DADA2\_350\_unfiltered/table\_filtered-L6\_pseudocount.qza

qiime composition ancom \

--i-table ~/FL103/DADA2\_350\_unfiltered/table\_filtered-L6\_pseudocount.qza \

--m-metadata-file ~/FL103/FL103\_MapFile.txt \

--m-metadata-column Trt \

--o-visualization ~/FL103/DADA2\_350\_unfiltered/diversity\_DADA2\_nomock/ANCOM\_L6-table\_treatment.qzv

qiime composition ancom \

--i-table ~/FL103/DADA2\_350\_unfiltered/table\_filtered-L6\_pseudocount.qza \

--m-metadata-file ~/FL103/FL103\_MapFile.txt \

--m-metadata-column Trt2 \

--o-visualization ~/FL103/DADA2\_350\_unfiltered/diversity\_DADA2\_nomock/ANCOM\_L6-table\_treatment2.qzv

qiime composition ancom \

--i-table ~/FL103/DADA2\_350\_unfiltered/table\_filtered-L6\_pseudocount.qza \

--m-metadata-file ~/FL103/FL103\_MapFile.txt \

--m-metadata-column Trt3 \

--o-visualization ~/FL103/DADA2\_350\_unfiltered/diversity\_DADA2\_nomock/ANCOM\_L6-table\_treatment3.qzv

#Collapse at family level and re-run

qiime taxa collapse \

--i-table ~/FL103/DADA2\_350\_unfiltered/table\_filtered.qza \

--i-taxonomy ~/FL103/DADA2\_350\_unfiltered/taxonomy.qza \

--p-level 5 \

--o-collapsed-table ~/FL103/DADA2\_350\_unfiltered/table\_filtered-L5.qza

qiime composition add-pseudocount \

--i-table ~/FL103/DADA2\_350\_unfiltered/table\_filtered-L5.qza \

--o-composition-table ~/FL103/DADA2\_350\_unfiltered/table\_filtered-L5\_pseudocount.qza

qiime composition ancom \

--i-table ~/FL103/DADA2\_350\_unfiltered/table\_filtered-L5\_pseudocount.qza \

--m-metadata-file ~/FL103/FL103\_MapFile.txt \

--m-metadata-column Trt3 \

--o-visualization ~/FL103/DADA2\_350\_unfiltered/diversity\_DADA2\_nomock/ANCOM\_L5-table\_treatment3.qzv