



Cecal contents
 Isolate RNA and save
 Isolate DNA and perform shotgun metagenomics
 QC and trim reads
 Assemble contigs from $Uox^{+/+}$ or $Uox^{-/-}$ mice
 BLAST for UA genes (*ygeX* marker gene)
 Filter out contigs < 10 kb
 Annotate UA genes in contigs
 Assess metagenomic abundances of gene clusters
 Assess gene expression in RNA by RT-Q-PCR

