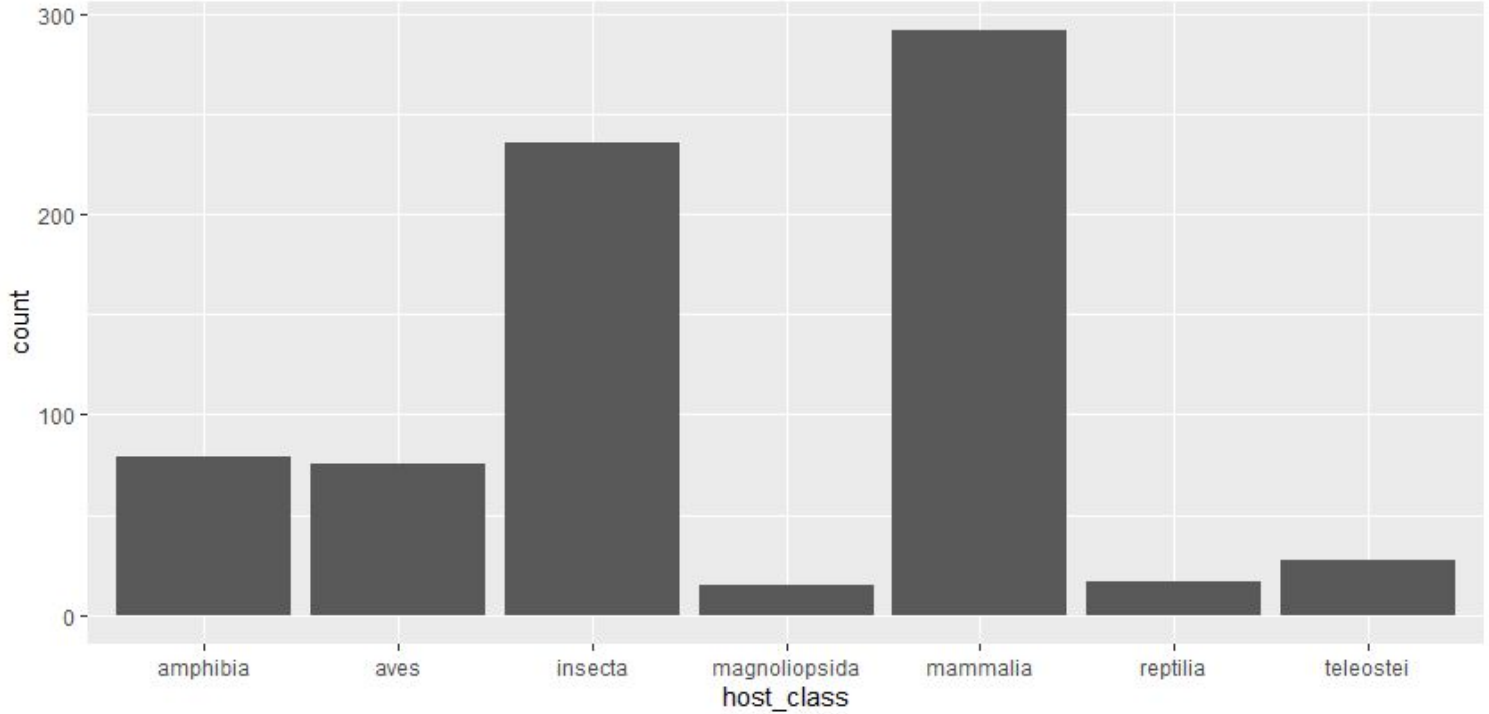
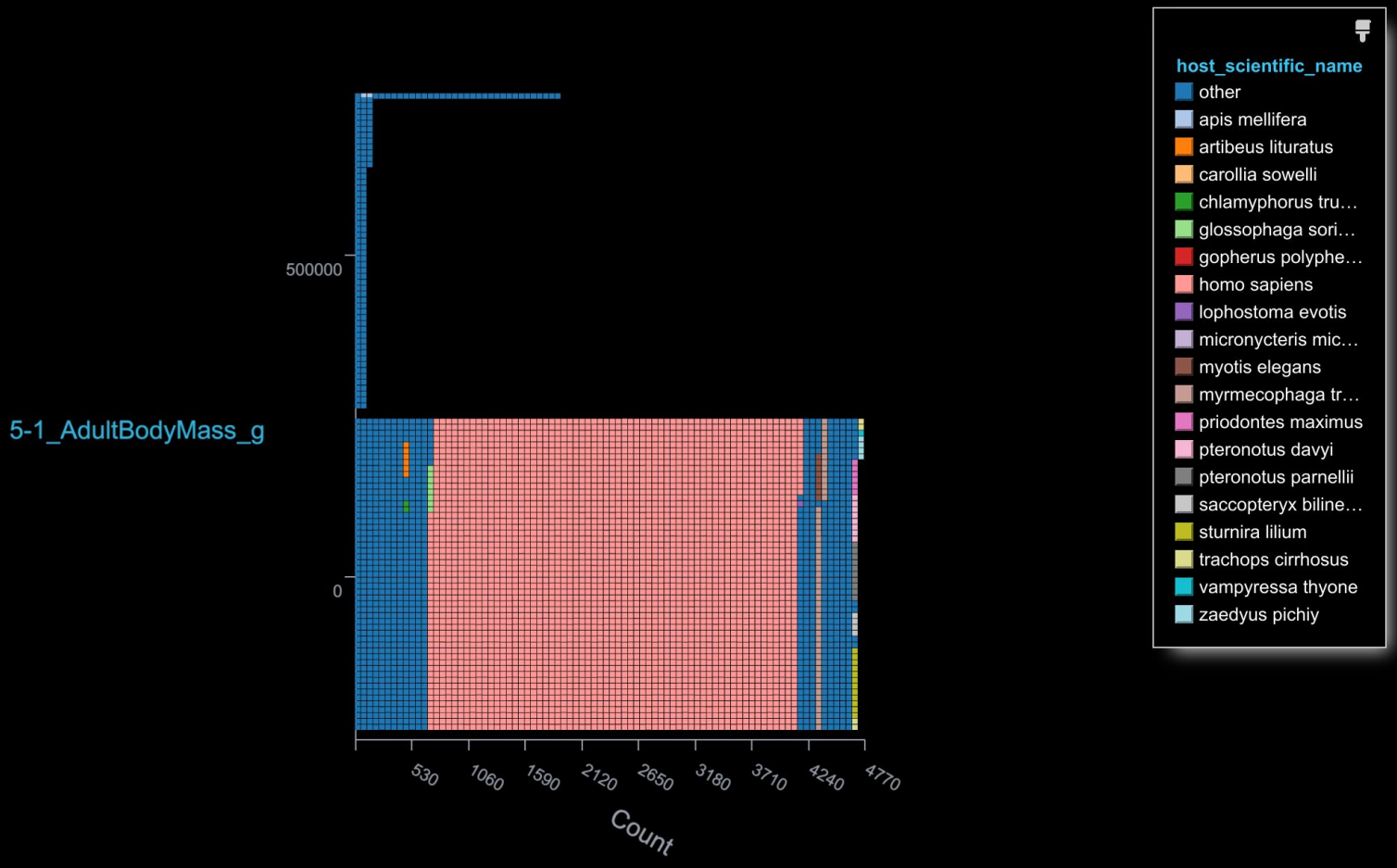
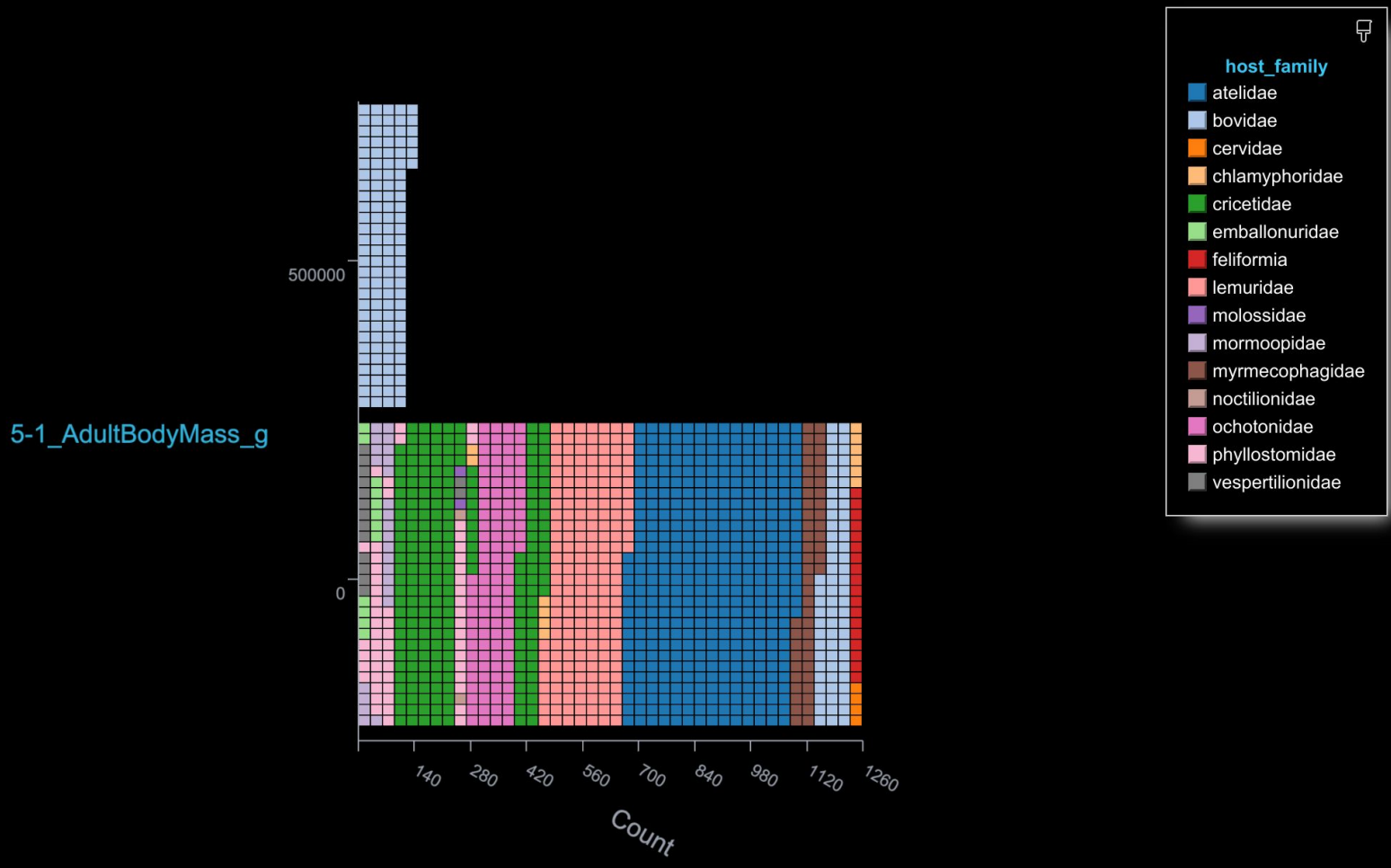
First day progress (Team 6)

- Downloaded metadata and OTU table for animal internal microbiomes (n=741 from 204 species)
- Unsupervised clustering, based on OTU counts, using multiple approaches




5-1_AdultBodyMass_g
500000
0
530
1060
1590
2120
2650
3180
3710
4240
4770
Count
host_scientific_name
other
apis mellifera
artibeus lituratus
carollia sowelli
chlamyphorus tru…
glossophaga sori…
gopherus polyphe…
homo sapiens
lophostoma evotis
micronycteris mic…
myotis elegans
myrmecophaga tr…
priodontes maximus
pteronotus davyi
pteronotus parnellii
saccopteryx biline…
sturnira lilium
trachops cirrhosus
vampyressa thyone
zaedyus pichiy


host_family
atelidae
bovidae
cervidae
chlamyphoridae
cricetidae
emballonuridae
feliformia
lemuridae
molossidae
mormoopidae
myrmecophagidae
noctilionidae
ochotonidae
phyllostomidae
vespertilionidae
5-1_AdultBodyMass_g
500000
0
140
280
420
560
700
840
980
1120
1260
Count

Goals for tomorrow

- Finish clustering by tomorrow
- Analyze clusters in the context of metadata
  - Host taxonomy/phylogeny
  - Diet
  - Gut length
  - Absorption potential
  - Life stage
  - Metabolic rate
  - Mass/weight

- Conduct some supervised ML experiments (informed by clustering) to attempt to predict morphology attributes from microbiota