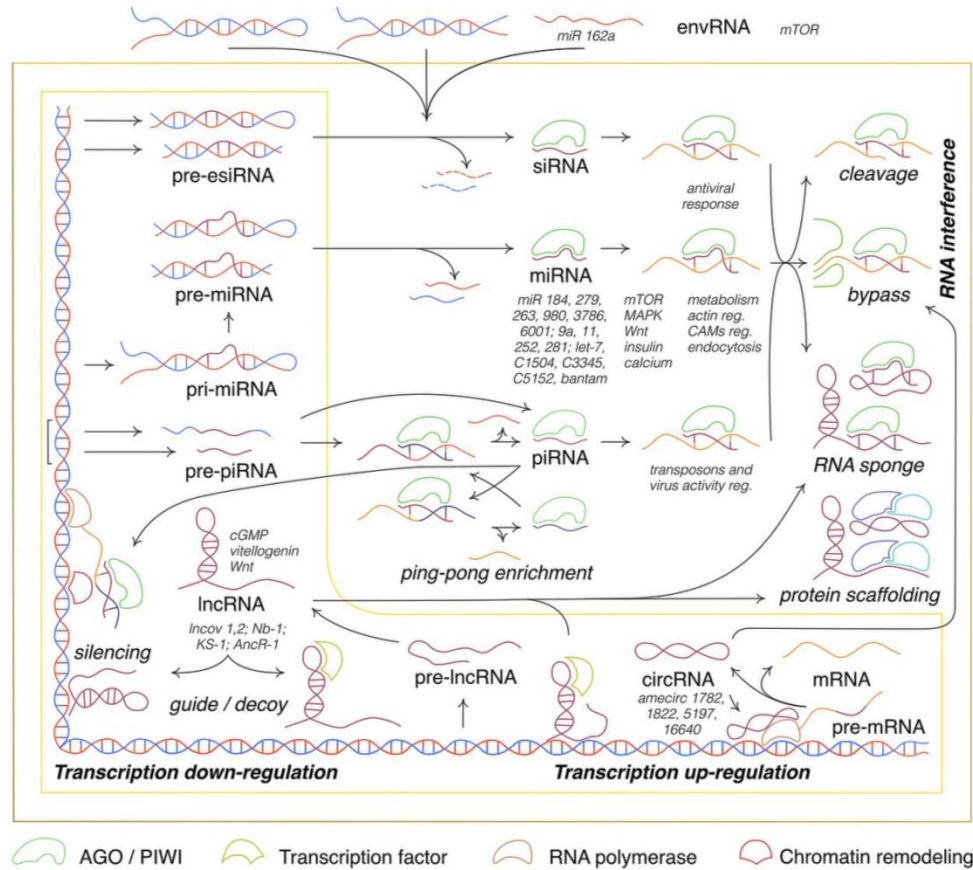


Hymenoptera eusociality

Smutin Daniil

Idea



Link between

eusociality

repeats

ncRNAs



Smutin et al., 2024

Pipeline

Organisms

Hymenoptera

Data

16S

coxI

repeats

Alignment

MAFFT

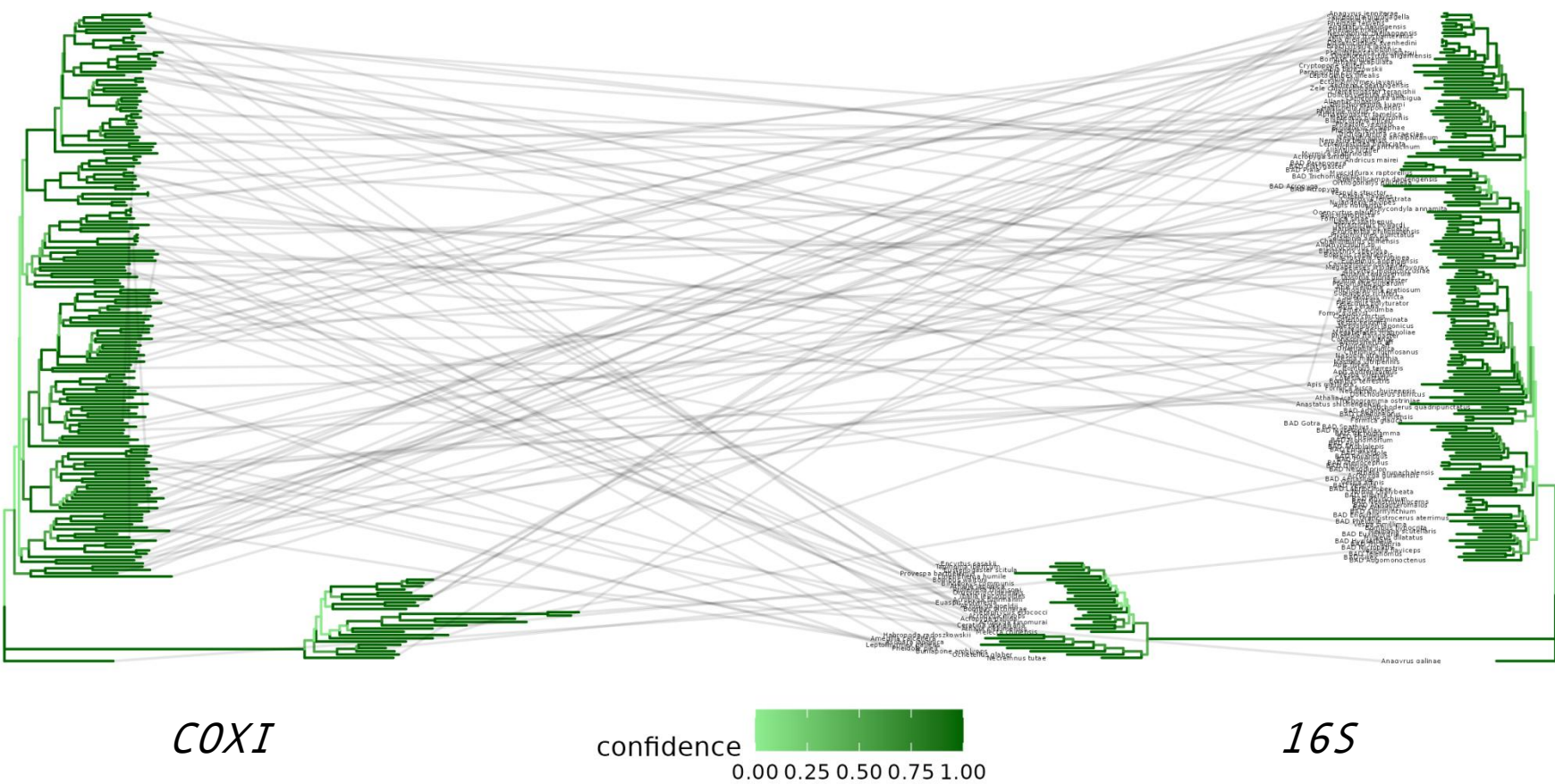
Phylogeny

BEAST

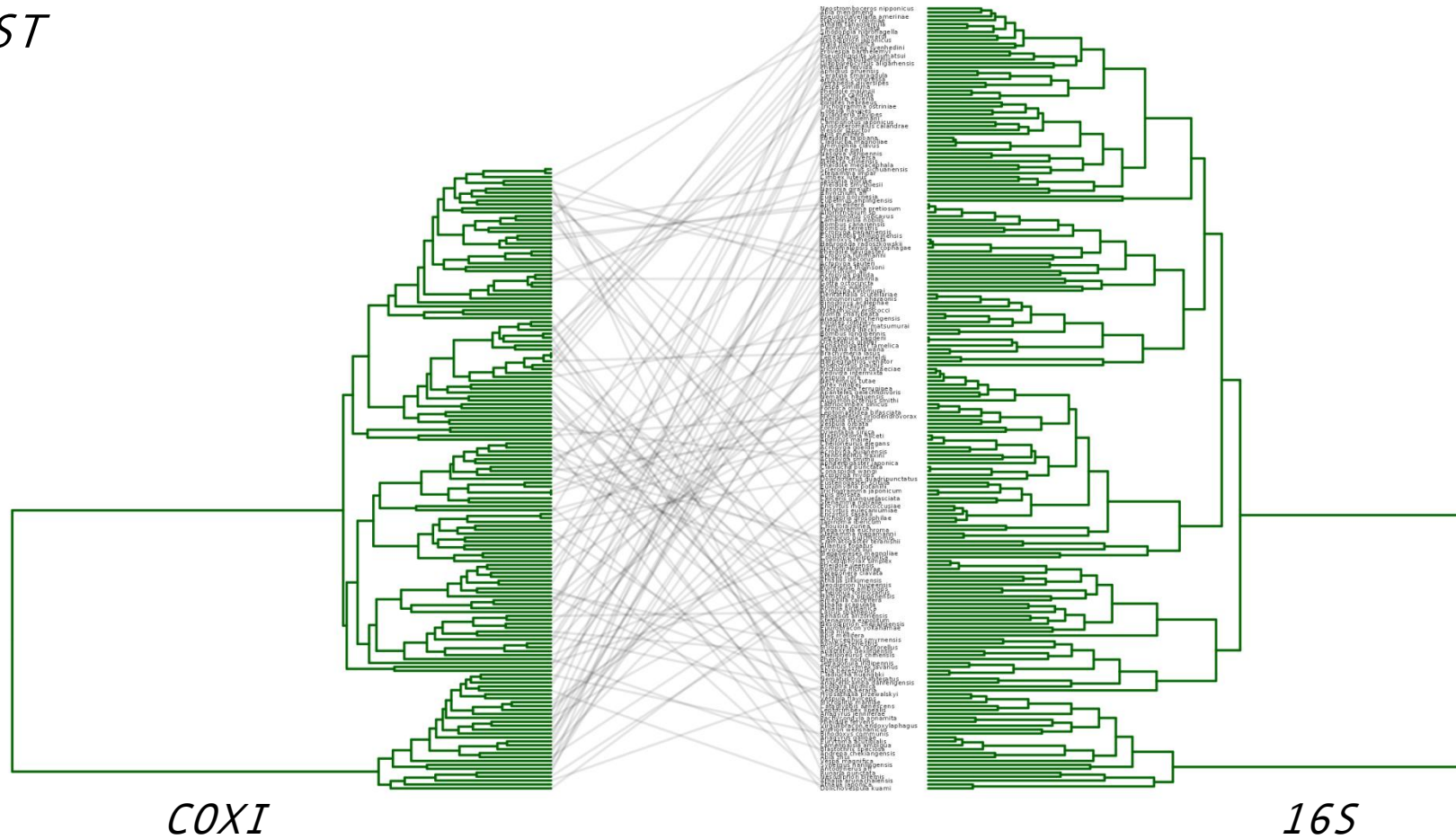
NJ



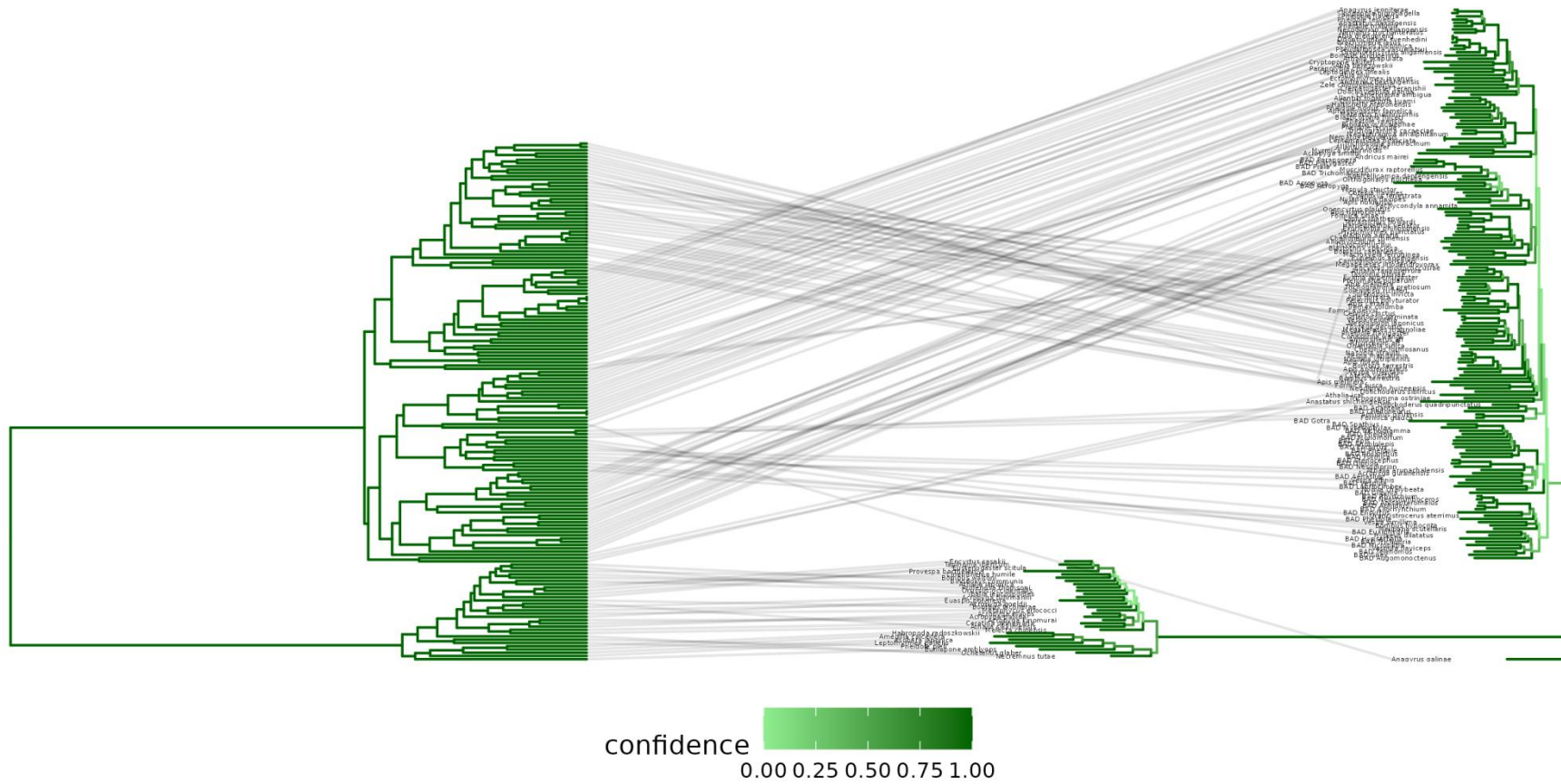
Results: tree topology
NJ



Results: tree topology *BEAST*

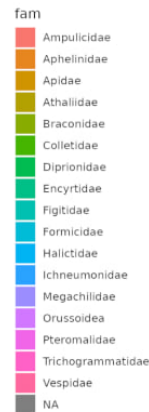
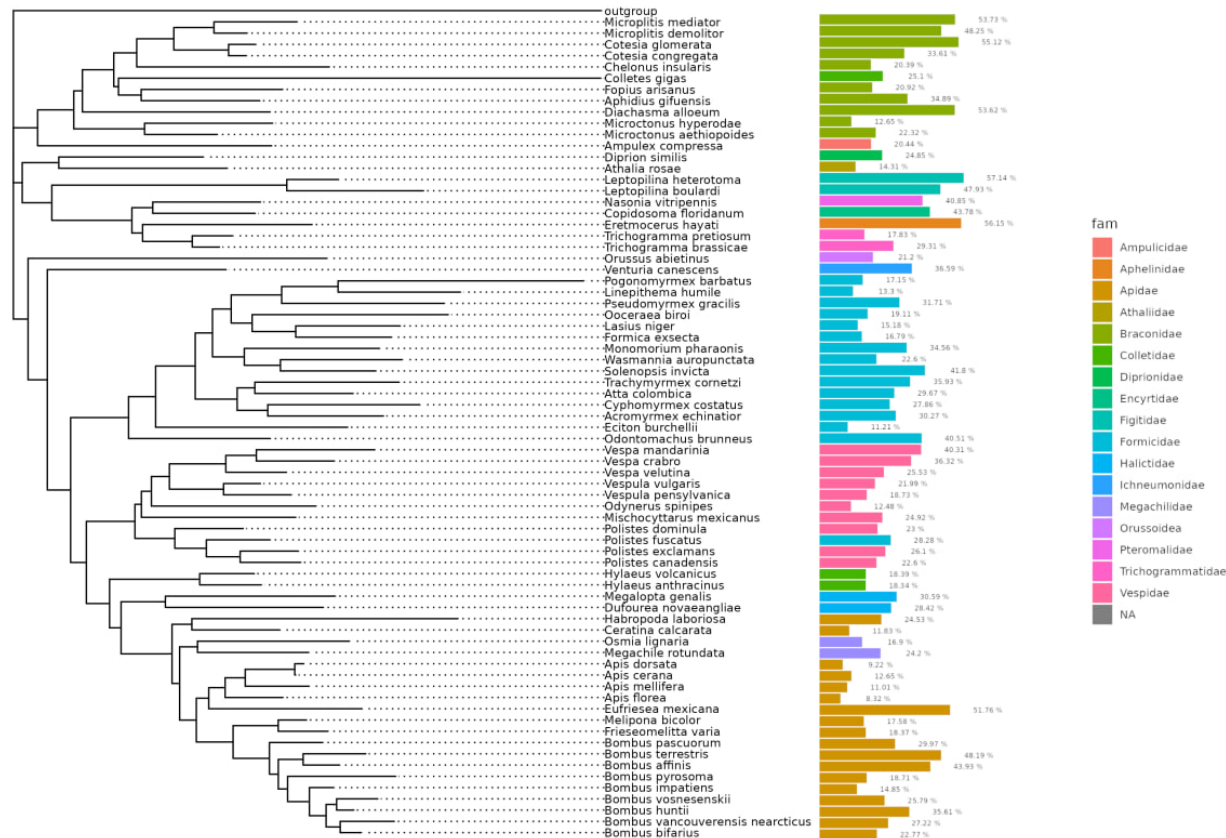


Results: tree topology
BEAST vs NJ: COXI



Results: tree with data

Eusociality with non-coding





that's all folks

Results: tree with data
Eusociality

Results: tree with data
Eusociality