Phylogeny tree

Sett Aung

2024-05-08

```
library(tidyverse)
library(openintro)
library(agtree)
library(ape)

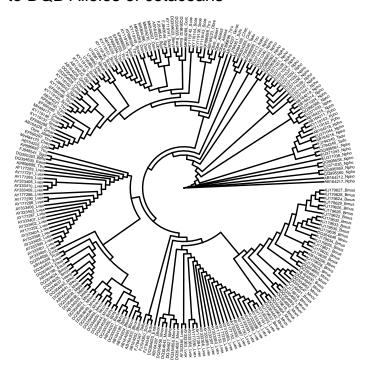
tree <- read.tree("../Data/output.bionj")

# Ladderizing the tree (Neighborjoining tree)
tree <- ladderize(tree, right = F)

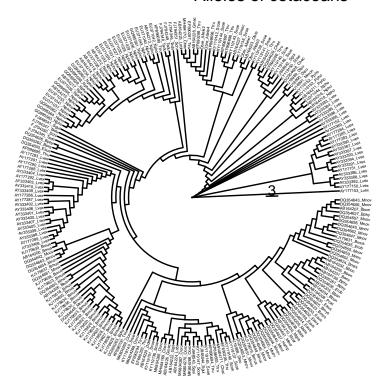
# Importing NJ tree from CIPRES using IQ Tool
tree_1 <- ggtree(tree, branch.length='none', layout='circular') +
geom_tiplab(size = 1) +
ggtitle(
    "Neighbor-joining tree -
Comparing DQB Alleles of Irrawaddy dolphins
to DQB Alleles of cetaceans ")

tree_1</pre>
```

Neighbor-joining tree – Comparing DQB Alleles of Irrawaddy dolphins to DQB Alleles of cetaceans



Bootstrap tree – Comparing DQB Alleles of Irrawaddy dolphins to Alleles of cetaceans



```
# reading treefile output from CIPRES
tree4 <- read.tree("../Data/output.treefile")

# Ladderizing
tree4 <- ladderize(tree4, right = F)

# Importing contree from CIPRES using IQ Tool
tree_5 <- ggtree(tree4, branch.length='none', layout='circular') +
geom_tiplab(size = 1)</pre>
tree_5
```

