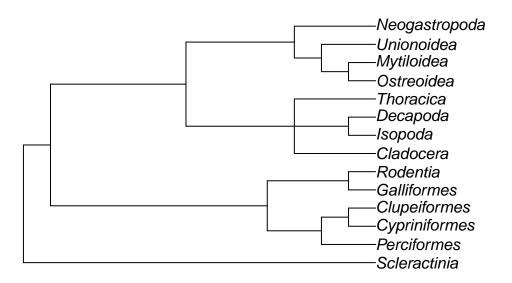
## Wares Lab - University of Georgia

## Metazoan Diversity

## 2005-2015

```
# download packages rncl and rotl
#library(devtools)
#install_github("fmichonneau/rncl") # R interface to the Nexus Class Library
#install_github("fmichonneau/rotl") # Interface to Open Tree of Life API
# load libraries
library(rncl)
library(rotl)
# make string of metazoan taxa lab has worked on - microbes, fungi, plants, parasites excluded
# biogeography and multi-taxon studies have representative taxa
lab10orders <- c("Thoracica", "Decapoda", "Isopoda", "Cladocera", "Neogastropoda", "Unionoidea",
                 "Mytiloidea", "Ostreoidea", "Galliformes", "Rodentia", "Clupeiformes", "Cypriniformes",
                 "Perciformes", "Forcipulatida", "Scleractinia")
# match names of string with OTOL names
resolved_names <- tnrs_match_names(lab10orders)</pre>
# make tree
response <- tol_induced_subtree(ott_ids=as.numeric(resolved_names$ott_id), parser="phytools")
#nb if rgl package not installed correctly will not work, update X11 to XQuartz all good!
# simplify tip labels
v=strsplit(response$tip.label,split="_",fixed=TRUE)
for(i in 1:length(response$tip.label)){
  response$tip.label[i]<-v[[i]][1]
# plot tree
plot(response)
```



@wareslab