

Repeat regularly

GenBank query:
polypodiopsida
plastomes



- 500 sequences
- 400 spp.
- 70 genes

Extract
sequences

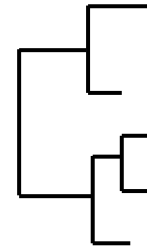
Resolve
taxonomy



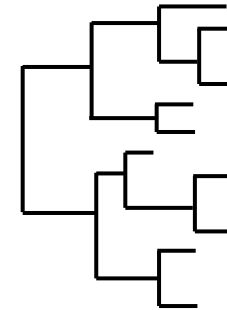
Align sequences
and concatenate



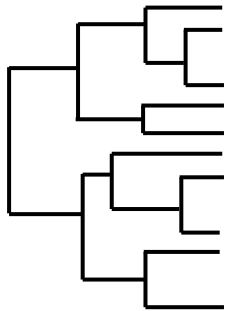
Backbone tree



Full tree



Dated tree



Inspect
tree,
remove
mis-IDs



polypodiopsida
rbcl, *atpB* ...



Extract
sequences

Resolve
taxonomy



Identify and
remove
rogues by all-
by-all BLAST



Align sequences
and concatenate



- 14,000 sequences
- 5,500 spp.
- 7 genes

- fernphy.github.io
- “ftolr” R package

