

A DualBrothers Demo

October 16, 2012

This is a demo for using the java program, DualBrothers, in R. To get started, install the dualbrothers R package from the directory that contains the dualbrothers_0.0-1.tar.gz file. The rJava package will need to be installed.

R CMD INSTALL dualbrothers

Start R and load the dualbrothers library.

```
> library(dualbrothers)
```

Copy the KAL153.phy file from the rbrothers package to your current working directory.

```
> my.align = read.dna(file=system.file("extdata/KAL153/KAL153.phy",package="rbrothers"))
> write.dna(my.align,"KAL153.phy")
```

Now you can run dualbrothers with a single command.

```
> db<-dualbrothers(123,"KAL153",format="interleaved")
```

Plots can be created with the following commands.

```
> plot(db,TRUE)
```

```
> plottree.db(db,12,TRUE)
```

