

# The **microseq** package vignette

Lars Snipen and Kristian Hovde Liland

## 1 External software

Some functions in this package calls upons external software that must be available on the system. Some of these are 'installed' by simply downloading a binary executable that you put somewhere proper on your computer. To make such program visible to R, you typically need to update your PATH environment variable, to specify where these executables are located. Depending on your system, you may also need to create an `.Renviron` file for making the PATH visible to R. Try it out, and use google for help!

### 1.1 Software **muscle**

The functions *msalign()* and *muscle()* uses the free software **muscle** (<https://www.drive5.com/muscle/>). From the website you download (and unzip) an executable. NB! Change its name to **muscle**, no more and no less (i.e. no version numbers etc). You need to update your PATH environment variable to make this visible to R. In the R console the command

```
> system("muscle -h")
```

should produce some sensible output.