

# Installing R and the Bioconductor

1. Firstly install R. This is available on the CD in the directory `bioconductor/rw1062.exe` or available online from <http://www.r-project.org/>.
2. Install Tcl8.3. Although tcl8.4 is the current release of tcl, it is important to install tcl8.3 as R requires this specific version of tcl. This is available on the CD `bioconductor/ActiveTcl8.3.5.0-2-win32-ix86.exe` or from <http://www.activestate.com/Products/Download/Download.plex?id=ActiveTcl>. In the install, ensure you select "all users" if your PC is a multi user PC.

You will need to set a `TCL_LIBRARY` environmental variable to do this, right mouse click on the icon for my computer, and select properties. YOU WILL NEED TO BE LOGGED ON AS ADMINISTRATOR ON YOUR PC. Click on the advanced tab. Click on the environmental variables and in the bottom panel, system variables, click on New. The variable name is `TCL_LIBRARY` and the variable value is `c:\tcl\lib\tcl8.3`. The latter will be different if you choose to install tcl in a directory other than the default one.

To check tcl installed correctly, open up R, and type `library(tcltk)`. If this just returns a prompt and returns no errors, the install has probably worked ok.

3. Open up R. On the top menu, select `Packages->Install package from Cran`. Scroll to the bottom of the list, select XML.
4. Install the bioconductor package, by sourcing the script called `getBioC.R` on the CD (this is also available from <http://www.bioconductor.org>). To do this open R, click on `File->source R code`, and browse to select the script `getBioC.R`. Next type `getBioC(libName="all")`. Type yes to the questions answered if you wish to install all of bioconductor (recommended).
5. In R, Install the zip files `EMBO03.zip`, `GO`, `GolubEssets`, `hu6800` and `hgu95a`. These files are on the CD in `bioconductor/zipfiles`. To install this use `Packages ->Install from local zip file`, and select the zip file. To use these, load package `EMBO03` from the pulldown menu or by `library(EMBO03)`.

6. Good Luck!  
Aedin Culhane, [aedin@ebi.ac.uk](mailto:aedin@ebi.ac.uk)