



Introduction To Bioinformatics

Exercise 3

Familiarizing with R

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Analysis

A priori setup

Linux availability: Windows Subsystem for Linux (WSL) Ubuntu.

Note: For the solution to the problems a file that can be executed with R will be made (Familiarization.r). This script is executed with "Rscript.exe Familiarization.r"

Note: The process to make the importation of the file work properly was as follows:

Search the slides and online on how to install packages with R.



```
5 > install.packages("readxl")
6 Warning in install.packages("readxl") :
7   'lib = "C:/Program Files/R/R-4.4.1/library"' is not writable
8 Would you like to use a personal library instead? (yes/No/cancel) no
9 Error in install.packages("readxl") : unable to install packages
```

Figure 1: Initial output when installing packages.

Upon attempting to install the way that was recommended, this error was encountered. A quick google search later found that this is because the R session was initialized without admin privileges. Thus, an administrator session was used to run the command again, which worked.

Note: Since questions include countries that are not in the EU and calculations for countries within the EU the countries considered as being within the EU are the following:

Austria, Belgium, Bulgaria, Croatia, Republic of Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain and Sweden.

Results

For the contents of Familiarization.r, look within the respective file (provided with the report). Some of the requirements are provided in the printing within the file. The graphs are written to the Familiarization.pdf file