Module 215: "Minor B Introduction to R: computing, graphics for statistics and epidemiology "Coordinator: Nolwenn Le Meur

Room 409, EHESP 20 Avenue George Sand 93210 LA PLAINE ST DENIS

R is a language and environment for statistical computing and graphics. R is highly extensible and is free software. It compiles and runs on a wide variety of UNIX platforms, Windows and MacOS. The course assumes no prior knowledge of R and covers the following topics.

Prerequisite: you are assumed to be familiar with elementary statistical methodology such as hypothesis testing, analysis of variance, regression models etc.

Monday November 18	Tuesday November 19	Wednesday November 20	Thursday November 21	Friday November 22
9:00	9:00 Quizz	9:00 Quizz	9:00 Quizz	9:00
R & RStudio  - R packages  - R command and script  - Rmarkdown  Nolwenn Le Meur	Descriptive statistics - summary - univarite tests - intro to grammar- oriented programming  Nolwenn Le Meur	Graphical functions  - Basic plots  - ggplot2 library  Nolwenn Le Meur	Regression modelling - Linear regression - Logistic regression - Poisson regression Nolwenn Le Meur	Project: Dataset analysis  Nolwenn Le Meur
12:00 -1:00 Lunch	12:00-1:00 Lunch	12:00-1:00 Lunch	12:00-1:00 Lunch	12:00-1:00 Lunch
Data management - Importing (reading) - Data types and structure - Recoding variable - Exporting (saving)	Practice	Practice	Practice	Project: Dataset analysis
Nolwenn Le Meur	Nolwenn Le Meur	Nolwenn Le Meur	Nolwenn Le Meur	Nolwenn Le Meur
4 pm	4 pm	4 pm	4 pm	4 pm