

Master of Public Health - Semester 3

Week 46: from 14th to 18th of November 2011

Module 215: Minor B “Using R in epidemiology”

Coordinator: Arnaud Le Menach

Location: Reid Hall 4 rue de Chevreuse – 75006 PARIS

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 regression models, analysis of variance, hypothesis testing, etc.

Monday November 14th	Tuesday November 15th	Wednesday November 16th	Thursday November 17th	Friday November 18th
9H30 R Introduction Data management <ul style="list-style-type: none"> - Data types and structure - Manipulating the data - Importing and exporting - R packages Arnaud Le Menach	9H00 Basic statistical functions <ul style="list-style-type: none"> - Statistical summaries - Probability distributions - Statistical tests - Exercises Arnaud Le Menach	9H00 Graphical procedure <ul style="list-style-type: none"> - The plot function - Graphic parameters - Other plot functions - Exercises Arnaud Le Menach	9H00 More statistics with R <ul style="list-style-type: none"> - Linear & logistic regression model - ANOVA - Exercises Arnaud Le Menach	9H00 Project <ul style="list-style-type: none"> - Dataset analysis Arnaud Le Menach
12h30 : Lunch	12h30 : Lunch	12h30 : Lunch	12h30 : Lunch	12h30 : Lunch
14H00 Practice Arnaud Le Menach 17H30	14H00 Practice Arnaud Le Menach 17H00	14H00 Practice Arnaud Le Menach 17H00	14H00 Practice Arnaud Le Menach 17H00	14H00 Project Arnaud Le Menach 17H00