Course for Ph.D. students
37th cycle (Nov 2021 – Oct 2024)

MULTIVARIATE ANALYSIS WITH R
(2 ECTS)

Dr. Laura Scalvini
University of Parma

Course language: English

Approximative scheduling: January 19th-20th, 2022; 10:00-13:00, 14:30-17:30

To attend the course please contact:
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Course description
The course provides basic knowledge on multivariate analysis applied to medicinal chemistry and pharmaceutical analysis. Principal component analysis (PCA) and partial least squares analysis (PLS) are introduced and discussed. The students are trained on the use of the open-source program R for the treatment and analysis of data. Basic elements of statistics are a prerequisite.
The course includes lessons and exercises in the computer laboratory, for a total of 12 hours in two days.
Slides and a tutorial will be provided by the teacher. Manuals are available online.
At the end of the course the students have to complete exercises similar to the case studies examined during the lessons.