

Course announcement

Practical biostatistics

Prof. Massimiliano Tognolini (University of Parma)

February 15, 2021 - 8:30 - 10:30

February 19, 2021 - 8:30 – 10:30

February 23, 2021 – 10:30 – 12:30

Pharmacy building

1 ECTS (CFU)

Practical lessons on biomedical data analysis and interpretation. The course will include a prominent amount of exercise by means of Excel and Prism – GraphPad. The following topics are expected to be addressed

Descriptive statistics:

- distributions, measures of central tendency, measures of dispersion, skewness

Data representation: bar plot, whisker plot, scatter plot, low-to-high

Inferential statistics

- population and sample
- comparing a sample with a population, a sample with a sample: t-test, p significance, type I and type II error.
- comparing 2 or more groups: One-way ANOVA, Two-way ANOVA
- simple regression and correlation

Non parametric inferential statistics: Chi squared test

Good statistical practices in experimental design and their reporting
Practical course.

The course is limited to 15 students

**Please register before February 10, 2021 by sending a mail to
Massimiliano.tognolini@unipr.it**