

UNIVERSITY OF NAPLES FEDERICO II POLYTECHNIC AND SCIENCE SCHOOL Dept. of Chemical Sciences PhD School in Biotechnology Coordinatore Prof. Giovanni Sannia



PhD course in Biotechnology

Practical course in

"Introduction to Data Analysis"

Course content:

The course is meant for graduate students who are carrying out a PhD project in Biotechnology and aims at facilitating statistical analysis by Microsoft Excel. In particular, the course will describe how to use the Analysis ToolPack, statistical functions and how to perform basic statistical procedures.

Aggregating Data in Excel

Statistical Functions, Outlines, Subtotals, Pivot Tables

Data Relation Analysis

Normal Distribution, Descriptive Statistics, Linear Correlation, Regression Analysis, Covariance Extrapolation

Comparing Populations

Confidence Interval for the Mean, Test of Hypothesis Concerning the Population Mean, Difference Between Mean of Two Populations, ANOVA: Analysis of Variances, Goodness-of-Fit Test for Discrete Random Variables, Test of Independence: Contingency Tables

Requirements

Participants are expected to have the basics of Excel.

Held by Prof. Raffaele Velotta

Timetable: 25th to 28th September (four days), 2.00 pm - 5.00 pm Room: computer room of the Department of Chemical Sciences

Enrollment is mandatory: send an e-mail to rvelotta@unina.it

Number of available places: 20