



## Course in Biostatistics

4 CFU (Organized by Roberta Siciliano and Dario Antonini)

Lecturers: Roberta Siciliano, Carmela Iorio, Giuseppe Pandolfo

- March 1<sup>st</sup> - 14:00 – 18:00 – Introduction to Methodological Statistics and Experimental Design. The Use of Statistical Tests in Research and Choosing an Appropriate Statistical Test: Parametric *versus* Non Parametric Testing Procedures  
*Roberta Siciliano*
- March 29<sup>th</sup> - 14:00 – 18:00 – Two Independent Samples Design: Parametric vs Non Parametric Testing Procedures  
*Roberta Siciliano*
- April 5<sup>th</sup> - 14:00 – 18:00 – Two Paired Samples Design: Parametric vs Non Parametric Testing Procedures  
*Giuseppe Pandolfo*
- April 12<sup>th</sup> - 14:00 – 18:00 – Three or More Independent Samples Design: ANOVA vs Distribution Free Procedures  
*Carmela Iorio*
- May 10<sup>th</sup> - 14:00 – 18:00 – Repeated Measurements Design: ANOVA vs Distribution Free Procedures  
*Giuseppe Pandolfo*
- May 17<sup>th</sup> - 14:00 – 18:00 – Bivariate Analysis: Regression, Correlation and Association Testing Procedures  
*Roberta Siciliano*
- May 24<sup>th</sup> - 14:00 – 18:00 – Logistic Regression and Survival Analysis  
*Carmela Iorio*

### References:

- S. Siegel, N.J. Castellan, Non Parametric Statistics, Mc Graw Hill, 2002  
D. Wayne, Biostatistics, Wiley, 2013  
M.C. Whitlock, D. Schluter, The Analysis of Biological Data, 2014  
L. Winner, Introduction to Biostatistics, 2004  
G. van Belle, L.D. Fisher, P.J. Heagerty, T. Lumley, A Methodology for the Health Sciences, 2004