INTRODUCTION TO STATISTICS WITH R FOR BIOLOGICAL SCIENCES

COURSE PROGRAM

CIIMAR - 16 hours; 13-16 January 2025

- Session 1. 10:00 14:00 h (break from 11:45 to 12:15h)
 - 1.1 Descriptive statistics
 - 1.2 Probability distributions
 - 1.3 Data exploration
 - 1.4 Exercises
- Session 2. 10:00 14:00 h (break from 11:45 to 12:15h)
 - 2.1 Contrast of hypothesis: parametric and non-parametric methods
 - 2.2 Goodness of fit contrasts
 - 2.3 Homogeneity contrasts
 - 2.4 Exercises
- Session 3. 10:00 14:00 h (break from 11:45 to 12:15h)
 - 3.1 Linear regression
 - 3.2 Non-linear regression
 - 3.3 Non-parametric regression
 - 3.4 Exercises
- Session 4. 10:00 14:00 h (break from 11:45 to 12:15h)
 - 4.1 Analysis of variance: foundations
 - 4.2 Analysis of variance: worked example
 - 4.3 Analysis of variance: repeated-measures and nested designs
 - 4.4 Exercises