

Statistics with GraphPad Prism, seminar contents for 2-day seminar

Day 1:

PRISM Basics

- PRISM user interface
- Project types
- Objects in projects
- Data handling in PRISM
- Data table formats
- Data input and import
- Theoretical introduction: Descriptive statistics
- Creation and interpretation of descriptive statistics
- Creation and design of graphs in PRISM
- Design guidelines for graphs
- Which graph belongs to which project type?
- Theoretical introduction: Simple and multiple mean comparisons
- Carrying out "Column" projects
- T-test
- One-way ANOVA for independent and paired samples
- Post-tests
- Optional: Non-parametric tests for independent and paired samples

Day 2:

- Recap: Simple and multiple mean comparisons
- Recap: Carrying out "Column" projects
- Performing "Grouped" projects
- Two-Way ANOVA for independent and paired samples
- Post-tests
- Safe handling of graph types and design of graphs for mean value comparisons
- Non-parametric tests for independent and paired samples
- Theoretical introduction: Regression:
- Performing and interpreting a linear regression
- Carrying out and interpreting non-linear regressions
- Carrying out and interpreting a Cox regression
- Safe handling of graph types and design of graphs in regression projects
- Documenting and exporting results
- Summarising graphs and tables in the form of layouts
- Exporting graphs and layouts as a file and to MS PowerPoint and MS Word