



Course Title: Fundamentals of R for Data Analysis

Course Objective: Develop practical skills in R for data management, data visualization, and statistical analysis. The focus is on applications widely used in scientific research, particularly within the health sciences.

Language: English

Certification Issued by: Centro de Consultoría Científica y Meta-Investigación en Ciencias Biomédicas

Course Format and Duration:

- **Total duration:** 10 hours
- **Structure:** 6 sessions (2 sessions per week)
- **Delivery:** Online via Google Meet

Teaching Methodology: Each session combines theoretical concepts with hands-on practice using pre-prepared datasets. Participants will actively apply methods and tools as they learn, ensuring immediate reinforcement of key ideas.

All course materials and resources are available at:

https://github.com/Davidtdep/Fundamentals_of_R_for_Data_Analysis

Table 1. Course plan.

Week	Session	Topics
1	1	- Introduction to the course. - Understanding the RStudio interface and basic commands. - Introduction to data visualization.
	2	- Normality and hypothesis testing
	3	- Correlation analyses
2	4	- Linear regression models - Logistic regression models
	5	- ROC Analysis
3	6	- Just in case