

## Bioinformatics on-line courses during the COVID-19 emergency

### 1. Introduction to NGS bioinformatics analysis using Galaxy

**Instructor:** Carlos Torroja

**Dates:** 31/03, 01/04, 02/04

**Time:** 10:00-12:00

**What you will learn:**

How to process RNA-Seq and Chip-Seq data using galaxy workflows (<https://usegalaxy.org/>)

**Requisites:** A working PC with internet connection

### 2. Introduction to R for Data Science

**Instructor:** Fátima Sánchez-Cabo

**Dates:** 31/03, 01/04, 02/04, 07/04 and 08/04

**Time:** 15:00-17:00

**What you will learn:**

Day 1: Introduction to R and RStudio

Day 2: Data collection and import in R

Day 3: Data wrangling in R: The tidyverse ecosystem

Day 4: Data visualization in R

Day 5: Statistics with R

**Requisites:**

A working PC with internet connection and R and RStudio installed

In this course we will start from the very basics and will finish being able to produce sophisticated plots using ggplot2 from the tidyverse ecosystem.

**R:** <https://cran.rstudio.com/>

**RStudio:** <https://rstudio.com/products/rstudio/download/#download>

A maximum of one participant per group will be allowed. The same person can participate in both courses since times are not colliding.

To enrol, put a "incidencia" for the Bioinformatics Unit in the CNIC intranet with the following information:

- In the subject: Course name (1. Galaxy, 2. R)
- In the body of the message:
  - Participant's name and email address
  - Name of the PI