**PGR Training-session 3**

**Exercise**

1. Upload the “iris” dataset into R
2. Generate a new table that contains only the species “setosa” and “versicolor”
3. Compare the length of the petals (variable name: “Petal.Length”) between the two species:
   * which test do you need to run?
   * What assumptions do you need to assess?
   * Are the assumptions met?
   * Is the difference in petal length between the two species significant?
4. Calculate effect size and confidence intervals
5. Calculate mean, median and standard deviation of petal length for the two species

* How would you report the results?

1. Plot the results with the most appropriate plot

* Is it going to be a bar plot or a box plot? Why?
* You can choose whatever format you need appropriate but make sure you add a title and axis labels.