A (Very) Short Introduction to R for Wet Lab Scientists

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Why use R?

RStudio

R Basics

Installing Packages

Loading in Files

Basic Statistical Tests

Basic Plots

Why use R?

Something something

RStudio

Set up a new project

Quick overview of RStudio

Working between the script and console

R Basics

Variables

Basic Data Types

-typeof

-numeric vs character

More Complex Data Types

Data frames, vectors

Installing Packages

CRAN

Bioconductor

Loading in Files

The Iris Data Set

Loading in CSV

Loading in from Excel ?

Basic Statistical Tests

Fisher's T Test

Examining the Results

Basic Plots

Scatter Plot

Box Plots

- Don't use dynamite plots!!

Beeswarm Plots

Other Plotting Packages