16SrRNA Intermediate Bioinformatics Online Course: Int_BT_2019

Introduction to R: importing data, data frames

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Intro to R: what is a data frame?

numeric	character	logical
1	"S"	TRUE
7	"A"	FALSE
3	"U"	TRUE

- A list of vectors of equal length
- Clinical data: sample = rows and variables of interest = columns
- Functions to examine data frames
  - str()
  - head()
  - dim()
  - rownames() colnames()

Working with data frames

- Load external data from a .csv file into a data frame
  - read.csv() read.table()
- Subsetting
  - [rows , columns] **'comma-first-for-columns' [,1]**
  - Select a range: [,1:10]
  - Exclusion: [,-1]
  - Many ways to select a column: e.g. surveys[,2] == surveys[,"month"] == surveys$month

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R factors, data types, data frames

- course material

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R data types useful links

- [R data types and structures: additional hands on](#)

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