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<u>Help</u>





Data Analysis for Life Sciences Series Discussion FAQ <u>Course</u> <u>Progress</u> **Dates**





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Assignment Setup

The leukemiasEset contains 60 sets of bone marrow gene expression data from patients with one of the 4 main types of leukemia (ALL, AML, CLL, CML) as well as control patients without leukemia (NoL).

Install and load the leukemiasEset data from the leukemiasEset Bioconductor package:

```
# BiocManager::install("leukemiasEset")
                                           # install if
library(leukemiasEset)<
## Loading required package: Biobase
## Loading required package: BiocGenerics
## Loading required package: parallel
##
## Attaching package: 'BiocGenerics'
## The following objects are masked from 'package:parall
##
##
       clusterApply, clusterApplyLB, clusterCall, cluste
       clusterExport, clusterMap, parApply, parCapply, p
##
       parLapplyLB, parRapply, parSapply, parSapplyLB
##
## The following objects are masked from 'package:dplyr'
##
##
       combine, intersect, setdiff, union
## The following objects are masked from 'package:stats'
##
##
       IQR, mad, sd, var, xtabs
## The following objects are masked from 'package:base':
##
##
       anyDuplicated, append, as.data.frame, basename, d
##
       dirname, do.call, duplicated, eval, evalq, Filter
       grepl, intersect, is.unsorted, lapply, Map, mappl
       order, paste, pmax, pmax.int, pmin, pmin.int, Pos
       rbind, Reduce, rownames, sapply, setdiff, sort, t
       union, unique, unsplit, which, which.max, which.m
##
## Welcome to Bioconductor
##
##
       Vignettes contain introductory material; view wit
       'browseVignettes()'. To cite Bioconductor, see
##
       'citation("Biobase")', and for packages 'citation
##
data(leukemiasEset)
```

These data are stored in a container called an *ExpressionSet*. In future courses, we will learn how to work with *ExpressionSets*

We can also create a vector noting which type of leukemia is present in each sample:

leuk = leukemiasEset\$LeukemiaType

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