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Data Analysis for Life Sciences Series

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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 needed
library(leukemiasEset)<
## Loading required package: Biobase
## Loading required package: BiocGenerics
## Loading required package: parallel
## Attaching package: 'BiocGenerics'
## The following objects are masked from 'package:parallel':
##
       clusterApply, clusterApplyLB, clusterCall, clusterEvalQ,
       clusterExport, clusterMap, parApply, parCapply, parLapply,
##
       parLapplyLB, parRapply, 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, cbind, colnames,
       dirname, do.call, duplicated, eval, evalq, Filter, Find, get, grep,
##
       grepl, intersect, is.unsorted, lapply, Map, mapply, match, mget,
##
       order, paste, pmax, pmax.int, pmin, pmin.int, Position, rank,
       rbind, Reduce, rownames, sapply, setdiff, sort, table, tapply,
       union, unique, unsplit, which, which.max, which.min
## Welcome to Bioconductor
##
       Vignettes contain introductory material; view with
##
       'browseVignettes()'. To cite Bioconductor, see
##
       'citation("Biobase")', and for packages 'citation("pkgname")'.
data(leukemiasEset)
```

These data are stored in a container called an *ExpressionSet*. In future courses, we will learn how to work with *ExpressionSets* directly, but for now we can extract gene expression data as a matrix dat (features are rows, columns are samples):

```
dat = exprs(leukemiasEset)
```

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

```
leuk = leukemiasEset$LeukemiaType
```

For all questions related to this assignment, make sure that you are using the correct random number generator (RNG) settings by calling the following command:





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