## NRSG 741 Homework 3

## Tommy Flynn\*,1

## Abstract

```
## Loading required package: Rcpp
## 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, parSapply, parSapplyLB
## 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, cbind, colMeans,
##
##
       colnames, colSums, do.call, duplicated, eval, evalq, Filter,
       Find, get, grep, grepl, intersect, is.unsorted, lapply,
##
##
       lengths, Map, mapply, match, mget, order, paste, pmax,
##
       pmax.int, pmin, pmin.int, Position, rank, rbind, Reduce,
##
       rowMeans, rownames, rowSums, sapply, setdiff, sort, table,
       tapply, union, unique, unsplit, which, which.max, which.min
## Loading required package: BiocParallel
## Loading required package: Biostrings
## Loading required package: S4Vectors
## Loading required package: stats4
```

<sup>&</sup>lt;sup>a</sup>Repository available at (https://github.com/tommyflynn/N741\_Homework) [https://github.com/tommyflynn/N741\_Homework]

<sup>\*</sup>Corresponding Author

Email address: tjflynn@emory.edu (Tommy Flynn)

```
##
## Attaching package: 'S4Vectors'
## The following object is masked from 'package:base':
##
##
       expand.grid
## Loading required package: IRanges
##
## Attaching package: 'IRanges'
## The following object is masked from 'package:phyloseq':
##
       distance
## Loading required package: XVector
##
## Attaching package: 'Biostrings'
## The following object is masked from 'package:base':
##
##
       strsplit
## Loading required package: Rsamtools
## Loading required package: GenomeInfoDb
## Loading required package: GenomicRanges
## Loading required package: GenomicAlignments
## Loading required package: SummarizedExperiment
## Loading required package: Biobase
## Welcome to Bioconductor
##
       Vignettes contain introductory material; view with
##
       'browseVignettes()'. To cite Bioconductor, see
##
##
       'citation("Biobase")', and for packages 'citation("pkgname")'.
## Attaching package: 'Biobase'
## The following object is masked from 'package:phyloseq':
##
       sampleNames
```

```
## Loading required package: DelayedArray
## Loading required package: matrixStats
##
## Attaching package: 'matrixStats'
## The following objects are masked from 'package:Biobase':
##
##
       anyMissing, rowMedians
##
## Attaching package: 'DelayedArray'
## The following objects are masked from 'package:matrixStats':
##
##
       colMaxs, colMins, colRanges, rowMaxs, rowMins, rowRanges
## The following object is masked from 'package:Biostrings':
##
##
       type
## The following object is masked from 'package:base':
##
##
       apply
(packageVersion("dada2"))
```