Assessment_4_R_Data_Analysis

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Part 1

Gene Expression Data

The file "gene_expression.tsv" contains RNA-seq count data for three samples of interest.

Download Data files

```
URL_P1="https://raw.githubusercontent.com/ghazkha/Assessment4/refs/heads/main/gene_expression.tsv"
download.file(URL_P1,destfile="Gene_Expression.csv")
```

Gene expression file was downloaded using the download.file() command

Q1

Gene Expression file read in as table.

Gene_Expression <- read.table("https://raw.githubusercontent.com/ghazkha/Assessment4/refs/heads/main/genead(Gene_Expression)</pre>

##		GTEX.1117F.0226.SM.5GZZ7	GTEX.1117F.0426.SM.5EGHI
##	ENSG00000223972.5_DDX11L1	0	0
##	ENSG00000227232.5_WASH7P	187	109
##	ENSG00000278267.1_MIR6859-1	0	0
##	ENSG00000243485.5_MIR1302-2HG	1	0
##	ENSG00000237613.2_FAM138A	0	0
##	ENSG00000268020.3_OR4G4P	0	1
##		GTEX.1117F.0526.SM.5EGHJ	
##	ENSG00000223972.5_DDX11L1	0	
##	ENSG00000227232.5_WASH7P	143	
##	ENSG00000278267.1_MIR6859-1	1	
##	ENSG00000243485.5_MIR1302-2HG	0	
##	ENSG00000237613.2_FAM138A	0	
##	ENSG00000268020.3_OR4G4P	0	

Required package, "readr" installed and loaded using install.packages() and library() command. Data read in as table with the read.table command, the row.names=1 argument creates rows with the gene identifiers as the names. The head() function displays the first 6 lines of the table.

$\mathbf{Q2}$

Mean data of Gene expression added to table as new column

```
Gene_Expression$Mean_value <- rowMeans(Gene_Expression, na.rm = TRUE)</pre>
head(Gene_Expression)
                                  GTEX.1117F.0226.SM.5GZZ7 GTEX.1117F.0426.SM.5EGHI
##
## ENSG00000223972.5 DDX11L1
                                                          0
                                                                                  109
## ENSG00000227232.5_WASH7P
                                                        187
## ENSG00000278267.1 MIR6859-1
                                                          0
                                                                                    0
## ENSG00000243485.5_MIR1302-2HG
                                                          1
                                                                                    0
## ENSG00000237613.2_FAM138A
                                                                                    0
## ENSG00000268020.3_OR4G4P
                                                          0
##
                                  GTEX.1117F.0526.SM.5EGHJ
                                                             Mean value
## ENSG00000223972.5 DDX11L1
                                                              0.0000000
## ENSG00000227232.5_WASH7P
                                                        143 146.3333333
## ENSG00000278267.1 MIR6859-1
                                                              0.3333333
## ENSG00000243485.5_MIR1302-2HG
                                                          0
                                                              0.3333333
## ENSG00000237613.2_FAM138A
                                                          0
                                                              0.000000
## ENSG00000268020.3_OR4G4P
                                                          0
                                                              0.3333333
```

rowMeans() is used to calculate the mean value of each row in the data file, those values are then subset using Gene Expression\$Mean value <- into the file. The head() function displays the first 6 lines of the table.

$\mathbf{Q3}$

10 genes with the highest mean expression

```
Sorted Genes <- Gene Expression[order(-Gene Expression$Mean value), ]
Top10_Mean <- head(Sorted_Genes, 10)</pre>
print(Top10 Mean)
                              GTEX.1117F.0226.SM.5GZZ7 GTEX.1117F.0426.SM.5EGHI
##
## ENSG00000198804.2_MT-C01
                                                267250
                                                                         1101779
## ENSG00000198886.2_MT-ND4
                                                273188
                                                                          991891
## ENSG00000198938.2_MT-CO3
                                                250277
                                                                         1041376
## ENSG00000198888.2_MT-ND1
                                                243853
                                                                          772966
## ENSG00000198899.2_MT-ATP6
                                                141374
                                                                          696715
## ENSG00000198727.2_MT-CYB
                                                127194
                                                                          638209
## ENSG00000198763.3_MT-ND2
                                                159303
                                                                          543786
## ENSG00000211445.11 GPX3
                                                464959
                                                                           39396
## ENSG00000198712.1_MT-CO2
                                                128858
                                                                          545360
## ENSG00000156508.17 EEF1A1
                                                317642
                                                                           39573
##
                              GTEX.1117F.0526.SM.5EGHJ Mean_value
## ENSG00000198804.2 MT-C01
                                                218923
                                                         529317.3
## ENSG00000198886.2_MT-ND4
                                                277628
                                                         514235.7
## ENSG00000198938.2 MT-CO3
                                                223178
                                                         504943.7
## ENSG00000198888.2_MT-ND1
                                                194032
                                                         403617.0
## ENSG00000198899.2_MT-ATP6
                                                151166
                                                          329751.7
## ENSG00000198727.2_MT-CYB
                                                141359
                                                          302254.0
## ENSG00000198763.3_MT-ND2
                                                149564
                                                          284217.7
## ENSG00000211445.11_GPX3
                                                306070
                                                         270141.7
## ENSG00000198712.1_MT-CO2
                                                122816
                                                          265678.0
## ENSG00000156508.17_EEF1A1
                                                339347
                                                          232187.3
```

The order() function sorts the data based on the mean values, the - argument must be used to sort in descending order. head(sorted) subsets the top 10 rows into Top10_Mean which can be displayed using print().

$\mathbf{Q4}$

Number of genes with a mean <10

```
Low_Mean <- subset(Gene_Expression, Mean_value < 10)
nrow(Low_Mean)</pre>
```

[1] 35988

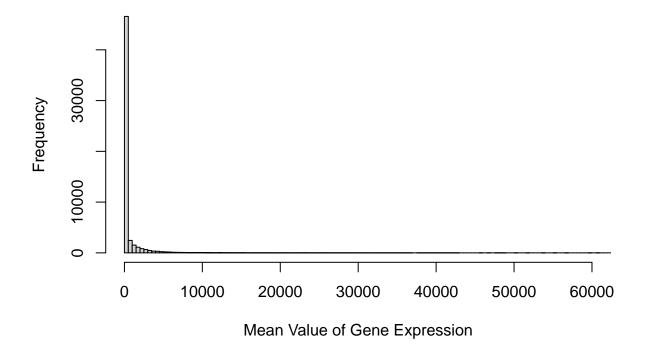
Subset taken of gene expression data with a mean value of less than 10. The rows in the resulting data are counted to get the amount of genes with a mean under 10.

Q_5

Histogram of Mean Values

hist(Gene_Expression\$Mean_value,breaks=1000, xlim = c(0,60000), xlab = "Mean Value of Gene Expression",

Histogram of Mean values of Gene Expression



The Histogram shown in the above figure displays the mean values of the gene expression data. The histogram was created with the hist() command, which produces a histogram plot.

Q6

Growth Data

The file "growth_data.csv" contains tree circumference measurements for trees growing at both a control site and a treatment site. The trees were planted 20 years ago.

Importing growth data csv file into R

```
growth_data_URL <- "https://raw.githubusercontent.com/ghazkha/Assessment4/refs/heads/main/growth_data.c</pre>
download.file(growth data URL,destfile="growth data")
growth_data <- read.csv("growth_data")</pre>
head(growth_data)
##
          Site TreeID Circumf_2005_cm Circumf_2010_cm Circumf_2015_cm
## 1 northeast
                  A012
                                    5.2
                                                    10.1
## 2 southwest
                  A039
                                    4.9
                                                     9.6
                                                                     18.9
## 3 southwest
                  A010
                                    3.7
                                                     7.3
                                                                     14.3
## 4 northeast
                 A087
                                    3.8
                                                     6.5
                                                                     10.9
## 5 southwest
                  A074
                                    3.8
                                                     6.4
                                                                     10.9
                                    5.9
                                                    10.0
                                                                     16.8
## 6 northeast
                 800A
##
     Circumf_2020_cm
## 1
                 38.9
## 2
                 37.0
## 3
                 28.1
## 4
                 18.5
## 5
                 18.4
## 6
                 28.4
```

The growth data csv file was converted into a R object, via the download.file command, the first six outputs are shown via the head() command.

Column names of Growth Data

To determine the column names of the growth data file, the command colnames() was used, and the column names of "Site", "TreeID", "Circumf_2005_cm", "Circumf_2010_cm", "Circumf_2015_cm" and "Circumf_2020_cm" can be seen in the output above.

Q7

Mean and standard deviation at notheast and southwest sites at 2005 and 2020

```
growth_northeast_2005 <- subset(growth_data, Site == "northeast", select = c("Circumf_2005_cm"))
head(growth_northeast_2005)</pre>
```

Mean and standard deviation of northeast site at 2005

```
## Circumf_2005_cm
## 1 5.2
## 4 3.8
```

[1] 0.9140267

To determine the mean of 5.292 cm and standard deviation of 0.914 cm at the northeast site at 2005, the complete growth data was subsetted into northeast 2005 and mean() and SD() commands were used.

```
growth_northeast_2020 <- subset(growth_data, Site == "northeast", select = c("Circumf_2020_cm"))
head(growth_northeast_2020)</pre>
```

Mean and standard deviation of northeast site at 2020

```
Circumf_2020_cm
##
## 1
                 38.9
                 18.5
## 4
## 6
                 28.4
## 7
                 50.0
## 8
                 25.8
                 26.0
## 12
mean_growth_northeast_2020 <- mean(growth_northeast_2020$Circumf_2020_cm)
mean_growth_northeast_2020
```

```
mean_growth_northeast_2020
```

```
## [1] 54.228

SD_growth_northeast_2020 <- sd(growth_northeast_2020$Circumf_2020_cm)

SD_growth_northeast_2020</pre>
```

```
## [1] 25.22795
```

To determine the mean of 54.228 cm and standard deviation of 25.22795 cm at the northeast site at 2020, the complete growth data was subsetted into northeast 2020 and mean() and SD() commands were used.

```
growth_southwest_2005 <- subset(growth_data, Site == "southwest", select = c("Circumf_2005_cm"))
head(growth_southwest_2005)</pre>
```

Mean and standard deviation of southwest site at 2005

```
mean_growth_southwest_2005 <- mean(growth_southwest_2005$Circumf_2005_cm)
mean_growth_southwest_2005
## [1] 4.862
SD_growth_southwest_2005 <- sd(growth_southwest_2005$Circumf_2005_cm)
SD_growth_southwest_2005</pre>
```

[1] 1.147471

To determine the mean of 4.862 cm and standard deviation of 1.147471 cm at the southwest site at 2005, the complete growth data was subsetted into southwest 2005 and mean() and SD() commands were used.

```
growth_southwest_2020 <- subset(growth_data, Site == "southwest", select = c("Circumf_2020_cm"))
head(growth_southwest_2020)</pre>
```

Mean and standard deviation of southwest site at 2020

```
Circumf_2020_cm
##
## 2
                 37.0
## 3
                 28.1
## 5
                 18.4
## 9
                 34.2
## 10
                 28.4
## 11
                 40.5
mean_growth_southwest_2020 <- mean(growth_southwest_2020$Circumf_2020_cm)
mean growth southwest 2020
## [1] 45.596
SD growth southwest 2020 <- sd(growth southwest 2020$Circumf 2020 cm)
```

```
## [1] 17.87345
```

SD growth southwest 2020

To determine the mean of 45.596 cm and standard deviation of 17.87345 cm at the southwest site at 2020, the complete growth data was subsetted into southwest 2020 and mean() and SD() commands were used.

Table summary of mean and standard deviation

```
mean_SD_table <- data.frame(col1 = c((mean_growth_northeast_2005),(SD_growth_northeast_2005)),</pre>
                      col2 = c((mean_growth_northeast_2020),(SD_growth_northeast_2020)),
                      col3 = c((mean growth southwest 2005), (SD growth southwest 2005)),
                       col4 = c((mean_growth_southwest_2020),(SD_growth_southwest_2020)))
colnames(mean_SD_table) <- c("Northeast 2005", "Northeast 2020", "Southwest 2005", "Southwest 2020")
rownames(mean_SD_table) <- c("Mean", "Standard Deviation")</pre>
mean_SD_table
##
                      Northeast 2005 Northeast 2020 Southwest 2005 Southwest 2020
## Mean
                            5.2920000
                                            54.22800
                                                            4.862000
                                                                            45.59600
## Standard Deviation
                            0.9140267
                                                                            17.87345
                                            25.22795
                                                            1.147471
```

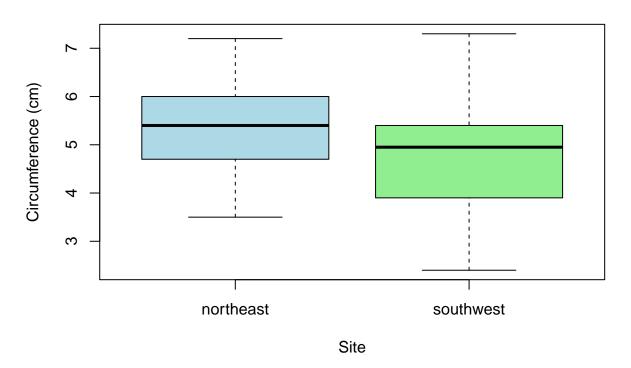
To provide the table above, a data frame was created with the mean and standard deviation results from the northeast and southwest sites and 2005 and 2020.

$\mathbf{Q8}$

Box plot for tree circumference in 2005 (start of the study)

```
boxplot(growth_data$Circumf_2005_cm ~ growth_data$Site,
    main = "Tree Circumference in 2005 by Site",
    xlab = "Site", ylab = "Circumference (cm)",
    col = c("lightblue", "lightgreen"))
```

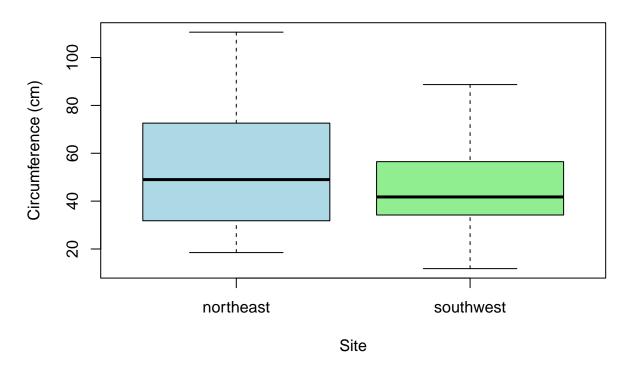
Tree Circumference in 2005 by Site



Box plot for tree circumference in 2020 (end of the study)

```
boxplot(growth_data$Circumf_2020_cm ~ growth_data$Site,
    main = "Tree Circumference in 2020 by Site",
    xlab = "Site", ylab = "Circumference (cm)",
    col = c("lightblue", "lightgreen"))
```

Tree Circumference in 2020 by Site



Shown above are two separate box plots. The first box will show how the tree circumference is distributed across both sites in 2005, and the second box will show the distribution in 2020. This gives us an understanding of growth over time and how it differs between the two sites. The plots above were created with the boxplot() command.

Q9

Calculating the growth between 2010 and 2020 for both sites

```
growth_data$Growth_10yr <- growth_data$Circumf_2020_cm - growth_data$Circumf_2010_cm
```

Subsetting the data for northeast and southwest sites

```
growth_northeast_10yr <- subset(growth_data, Site == "northeast", select = c("Growth_10yr"))
growth_southwest_10yr <- subset(growth_data, Site == "southwest", select = c("Growth_10yr"))</pre>
```

Calculating the mean growth over the last 10 years for each site

```
mean_growth_northeast_10yr <- mean(growth_northeast_10yr$Growth_10yr)
mean_growth_southwest_10yr <- mean(growth_southwest_10yr$Growth_10yr)</pre>
```

Outputting the mean growth values

```
mean_growth_northeast_10yr
```

```
## [1] 42.94
```

```
mean_growth_southwest_10yr
```

```
## [1] 35.49
```

This will give two numeric values:

Mean growth at the northeast site over the last 10 years is 42.94 cm Mean growth at the southwest site over the last 10 years is 35.49 cm

These values tell us how much the tree circumference increased on average at each site between 2010 and 2020.

Q10

Performing t-test to compare the 10-year growth between the two sites

```
t_test_result <- t.test(growth_data$Growth_10yr ~ growth_data$Site)
```

Outputting the p-value from the t-test

```
t_test_result$p.value
```

```
## [1] 0.06229256
```

The p-value will be a number between 0 and 1:

If the p-value < 0.05, we conclude that the 10-year growth is significantly different between the two sites. If the p-value >= 0.05, we conclude that there is no significant difference in growth between the two sites. As the p-value had a result of 0.062, we can conclude there is no significant difference in growth between the 2 sites.

Part 2

$\mathbf{Q}\mathbf{1}$

Downloading Coding DNA of Salmonella

```
salmonella_URL <- "https://ftp.ensemblgenomes.ebi.ac.uk/pub/bacteria/release-59/fasta/bacteria_50_colle
download.file(salmonella_URL,destfile = "Salmonella.fa.gz")
gunzip("Salmonella.fa.gz")
salmonella <- seqinr::read.fasta("Salmonella.fa")</pre>
```

To download the *Salmonella enterica* subsp. enterica serovar Weltevreden (GCA_005518735), (*Salmonella*) file, the download file command was used, along with the gunzip command to remove the zip format from the FASTA file.

Downloading Coding DNA of E.coli

```
ecoli_URL <- "http://ftp.ensemblgenomes.org/pub/bacteria/release-53/fasta/bacteria_0_collection/escheri
download.file(ecoli_URL,destfile = "ecoli.fa.gz")
gunzip("ecoli.fa.gz")
e_coli <- seqinr::read.fasta("ecoli.fa")</pre>
```

To download the *Escherichia coli* str. K-12 substr. MG1655 str. K12 (GCA_000005845) (*E.coli*) file, the download file command was used, along with the gunzip command to remove the zip format from the FASTA file.

Table displaying Coding DNA sequence legath of Salmonella and E-coli

```
Salmonella_E.coli <- as.table(rbind(c(length(salmonella),length(e_coli))))
colnames(Salmonella_E.coli) <- c("Salmonella","E-coli")
rownames(Salmonella_E.coli) <- "Coding DNA sequences"
Salmonella_E.coli</pre>
```

```
## Coding DNA sequences 4585 4239
```

The table shown above displays the amount of Coding DNA sequences, we can see a difference in length between *Salmonella* and *E.coli*, with *Salmonella* having 4585 coding DNA sequences and *E.coli* having 4239 coding DNA sequences.

$\mathbf{Q2}$

Coding DNA in Salmonella and E-coli

```
salmonella_length <-as.numeric(summary(salmonella)[,1])
sum(salmonella_length)

## [1] 4294851
e_coli_length <- as.numeric(summary(e_coli)[,1])

sum(e_coli_length)

## [1] 3978528</pre>
```

Table presenting total coding DNA in Salmonella and E-coli

```
CodingDNA <- as.table(rbind(c(sum(salmonella_length),sum(e_coli_length))))
colnames(CodingDNA) <- c("Salmonella","E-coli")
rownames(CodingDNA) <- "Total Coding DNA"
CodingDNA</pre>
```

```
## Salmonella E-coli
## Total Coding DNA 4294851 3978528
```

The table shown above displays the amount of Coding DNA in total in both *Salmonella* and *E.coli*, we can see a difference in total amount of DNA between *Salmonella* and *E.coli*, with *Salmonella* having 4294851 coding DNA base pairs and *E.coli* having 3978528 coding DNA base pairs.

Q3

Length of all coding sequences in Salmonella

```
salmonella_csl <- sapply(salmonella, length)
head(salmonella_csl,25)

## ENSB:rzMRPrOXj2f6n3A ENSB:x3MzlaR1iM6Op6v ENSB:btfdQZt4_vWjqOV
## 417 402 2613</pre>
```

```
ENSB:IZ641diL3-oOAYf ENSB:9CMZH1Fso1POuRQ ENSB:WDGo7WHsQXy-ZVK
                    1314
                                           165
                                                                 918
##
##
   ENSB:nxZOXcqpENLAhq- ENSB:Pdq_njih_D4z76t ENSB:doMeXiedV9pXccR
##
                    879
                                          2799
                                                                1080
   ENSB:kQ3Q9ymg3iP1FNt ENSB:HIcMhKuQYYbSiCI ENSB:kMzQPuEK1M6h21v
##
##
                    1335
                                          1545
                                                                1563
  ENSB:PybEbgTbnAhpxJ4 ENSB:g7VWNp8A7dOsFEs ENSB:CqxksGF2_zG4Fwf
##
##
                    852
                                           201
                                                                 627
##
   ENSB:qcIxBcPJXPy3xCH ENSB:2fftfGVWMOg5gVb ENSB:asHCFULnp2Cpguy
##
                     438
                                          1593
                                                                1419
##
   ENSB:Szs8QJYwEVWVtvU
                        ENSB:RwOLhdcFy6IGZRX ENSB:Pa_nz_ONaNE4x4I
                    996
##
                                           189
                                                                1428
##
   ENSB:OK5ccUl1Vz1MFBH ENSB:_-Kn39gDsVlrpn5 ENSB:iK0yimEqOtEzOG1
##
                    1017
                                          1326
                                                                 324
   ENSB:821CJ4HgDYyKI6H
##
##
                     159
```

sapply() works as a loop function when calculating the length of each sequence in the *Salmonella* data. the head() function is utilised to show the first 25 sequences lengths in an effort to minimise the size of the rmd file. print can be used in it's place for a more complete view.

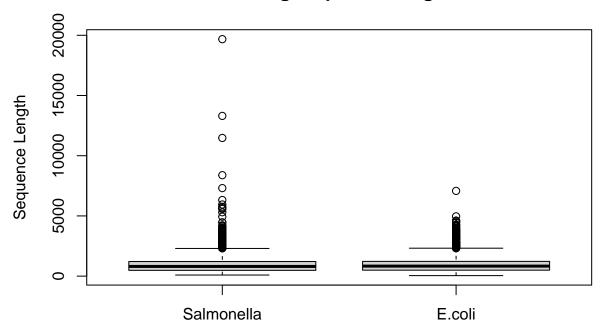
Length of all coding sequences in E.coli

```
e_coli_csl <- sapply(e_coli, length)</pre>
head(e_coli_csl,25)
## AAC73112 AAC73113 AAC73114 AAC73115 AAC73116 AAC73117 AAC73118 AAC73119
##
                                               297
                                                         777
         66
                 2463
                            933
                                     1287
                                                                  1431
                                                                             954
   AAC73120 AAC73121 AAC73122 AYC08161 AAC73124 AAC73125 AAC73126 AAC73127
##
##
        588
                  567
                            714
                                      486
                                               405
                                                        1917
                                                                  1131
                                                                            1113
##
   AAC73129
            AAT48122 AAC73130 AAC73131 AAC73132 AAC73133 AAC73134 AAC73135
##
        210
                  153
                           1167
                                      906
                                               504
                                                         276
                                                                   264
                                                                             219
  AAC73136
##
##
        942
```

sapply() works as a loop function when calculating the length of each sequence in the E.coli data. the head() function is utilised to show the first 25 sequences lengths in an effort to minimise the size of the rmd file. print can be used in it's place for a more complete view.

Boxplot of coding sequence length

Coding Sequence Length



The boxplot() function creates a boxplot of both the *Salmonella* and the *E.coli* data. The heading of the plot is changed with the 'main' argument, the y axis label with 'ylab' and the names of each individual plot with the 'names' argument.

Mean and Median coding sequence length of Salmonella

mean(salmonella_csl)

[1] 936.7178

The mean() command calculates the average value, in this case the length, of every sequence. The mean for the length of Salmonella sequences is 936.7178.

median(salmonella_csl)

[1] 804

The median() command calculates the middle value of all the sequences. The median for the length of Salmonella sequences is 804.

Mean and Median coding sequence length of E.coli

mean(e_coli_csl)

[1] 938.5534

The mean() command calculates the average value, in this case the length, of every sequence. The mean for the length of E.coli sequences is 938.5534.

```
median(e_coli_csl)
```

```
## [1] 831
```

The median() command calculates the middle value of all the sequences. The median for the length of E.coli sequences is 831.

Both organisms are quite similar with sequence lengths. Salmonella has a slightly lower mean value (4bp difference) and an even lower median value (27bp difference). This indicates that while on average, the two organisms have similar length sequences, however Salmonella has a higher frequency of longer sequences. These differences can indicate different genetic expression and functionality.

$\mathbf{Q4}$

Frequency of DNA bases

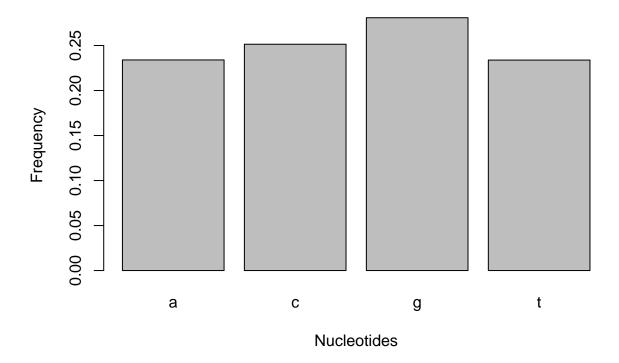
```
salmonella_DNA <- unlist(salmonella)</pre>
salmonella_DNA_comp <- count(salmonella_DNA,1)</pre>
salmonella_DNA_prop <- salmonella_DNA_comp/sum(salmonella_DNA_comp)</pre>
salmonella_DNA_prop
##
##
## 0.2339450 0.2513941 0.2808617 0.2337993
e_coli_DNA <- unlist(e_coli)</pre>
e_coli_DNA_comp <- count(e_coli_DNA,1)</pre>
e_coli_DNA_prop <- e_coli_DNA_comp/sum(e_coli_DNA_comp)</pre>
e_coli_DNA_prop
##
##
            a
                       С
## 0.2402316 0.2457175 0.2735939 0.2404570
```

The unlist() command converts the list data into a vector making it easier for analysis. count() is used to calculate the amount of each nucleotide in each sequence, <- stores the results in the _comp values. Dividing the _comp data by the sum of itself determines the frequency as a percentage in decimal form.

Bar plot for Salmonella nucleotide frequency

barplot(salmonella_DNA_prop,xlab="Nucleotides",ylab="Frequency", main="Salmonella nucleotide frequency"

Salmonella nucleotide frequency

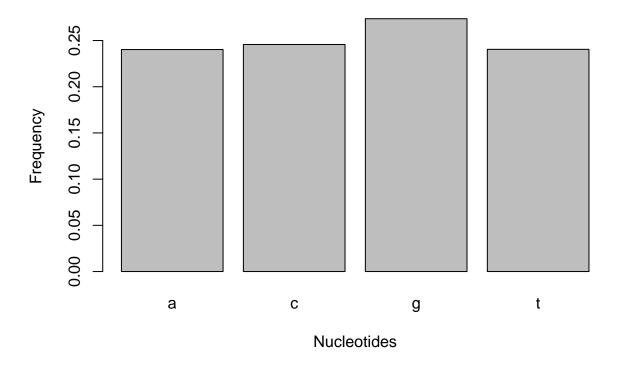


The frequency of nucleotides is displayed as a barplot with the barplot() command. The plot heading is determined with "main", the x and y axis labels are determined using "xlab" and "ylab" respectively.

Bar plot for *E.coli* nucleotide frequency

barplot(e_coli_DNA_prop,xlab="Nucleotides",ylab="Frequency", main="E coli nucleotide frequency")

E coli nucleotide frequency



The frequency of nucleotides is displayed as a barplot with the barplot() command. The plot heading is determined with "main", the x and y axis labels are determined using "xlab" and "ylab" respectively.

Salmonella Protein sequence frequency

```
salmonella_prot <- lapply(salmonella, translate)</pre>
salmonella_aa <- unique(salmonella_prot[[2]])</pre>
salmonella_aa <- salmonella_aa[salmonella_aa != "*"]</pre>
salmonella_aa_len <- length(salmonella_aa)</pre>
salmonella_aa_count <- lapply(salmonella_prot, function(sequence) {</pre>
  count(sequence, wordsize = 1, alphabet = salmonella_aa)
})
salmonella_aa_table <- do.call(rbind, salmonella_aa_count)</pre>
salmonella_aa_totals <- colSums(salmonella_aa_table)</pre>
salmonella_aa_prop <- salmonella_aa_totals/sum(salmonella_aa_totals)</pre>
salmonella_aa_prop
                                     Ε
                                                 F
## 0.10083505 0.05415912 0.05817653 0.04002090 0.07623562 0.06161545 0.04450283
            L
                                                 Р
```

```
## 0.11030698 0.02847749 0.03952880 0.04634278 0.04553858 0.05850387 0.06015874
## T V W Y
## 0.05697239 0.07288451 0.01584825 0.02989211
```

To translate all sequences in the data to proteins sequences, the lapply() command is applied. To define the amino acid alphabet, unique() extracts unique amino acids while salmonella_aa[salmonella_aa!="*"] removes any unknown amino acids. This is then used as a reference when using lapply(x,count()) to calculate the amount of each amino acid in the sequences. do.call(rbind,x) is usually for combining more complex amounts of data into 1 data frame, however it is still effective here. colSums calculates the total of each column, in this case, it add the amount of each amino acid across the sequences. The proportion of each total is calculated by dividing each total by the overall total. The results are then displayed.

E.coli Protein sequence frequency

```
e_coli_prot <- lapply(e_coli, translate)</pre>
e_coli_aa <- unique(e_coli_prot[[2]])</pre>
e coli aa <- e coli aa[e coli aa != "*"]
e_coli_aa_len <- length(e_coli_aa)
e_coli_aa_count <- lapply(e_coli_prot, function(sequence) {</pre>
  count(sequence, wordsize = 1, alphabet = e_coli_aa)
e_coli_aa_table <- do.call(rbind, e_coli_aa_count)</pre>
e_coli_aa_totals <- colSums(e_coli_aa_table)</pre>
e coli aa prop <- e coli aa totals/sum(e coli aa totals)
e_coli_aa_prop
                         C
                                    D
                                                Ε
                                                            F
##
             Α
## 0.09541075 0.01163142 0.05128535 0.05774708 0.03900413 0.07356326 0.02269019
```

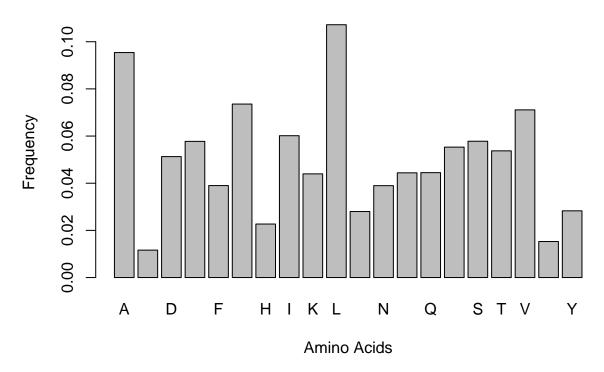
```
K
                                    L
                                               М
                                                           N
                                                                       P
##
            Ι
## 0.06014734 0.04396049 0.10721464 0.02799453 0.03896025 0.04440454 0.04447943
            R
                        S
                                    Τ
                                               V
##
                                                           W
                                                                       Y
## 0.05530596 0.05780306 0.05372798 0.07109945 0.01527758 0.02829257
```

To translate all sequences in the data to proteins sequences, the lapply() command is applied. To define the amino acid alphabet, unique() extracts unique amino acids while e_coli_aa[e_coli_aa != "*"] removes any unknown amino acids. This is then used as a reference when using lapply(x,count()) to calculate the amount of each amino acid in the sequences. do.call(rbind,x) is usually for combining more complex amounts of data into 1 data frame, however it is still effective here. colSums calculates the total of each column, in this case, it add the amount of each amino acid across the sequences. The proportion of each total is calculated by dividing each total by the overall total. The results are then displayed.

Bar plot for E.coli amino acid frequency

```
barplot(e_coli_aa_prop,xlab="Amino Acids",ylab="Frequency", main="E coli Amino Acid Frequency")
```

E coli Amino Acid Frequency

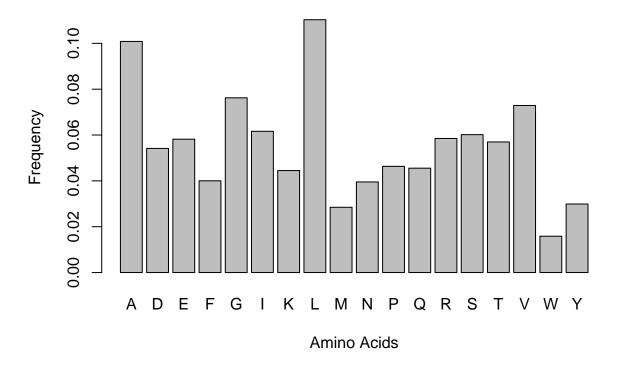


The frequency of each amino acid is displayed as a barplot with the barplot() command. The plot heading is determined with "main", the x and y axis labels are determined using "xlab" and "ylab" respectively.

Bar plot for Salmonella amino acid frequency

barplot(salmonella_aa_prop,xlab="Amino Acids",ylab="Frequency", main="Salmonella Amino Acid Frequency")

Salmonella Amino Acid Frequency



The frequency of each amino acid is displayed as a barplot with the barplot() command. The plot heading is determined with "main", the x and y axis labels are determined using "xlab" and "ylab" respectively.

Nucleotide frequency and their distributions, as shown in the barplots, are quite similar between the 2 organisms indicating functional similarities. As the amino acid barplots indicate, most amino acid frequencies across the two organisms are similar, however, *E.coli* has data for both C and H where *Salmonella* does not.

$\mathbf{Q5}$

```
# Define function to calculate codon usage
codon_usage <- function(sequence_list) {</pre>
  codons <- c()
  for (seq in sequence_list) {
    seq_codons <- s2c(seq)</pre>
    codons <- c(codons, uco(seq codons, frame = 0)) # Counts codon occurrences
  }
  codon_table <- table(codons) # Creates a frequency table of codons</pre>
  return(codon_table)
}
# Codon usage for Salmonella
salmonella_codon_usage <- codon_usage(salmonella)</pre>
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
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salmonella_codon_usage <- prop.table(salmonella_codon_usage)</pre>
# Codon usage for E.coli
e_coli_codon_usage <- codon_usage(e_coli)
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
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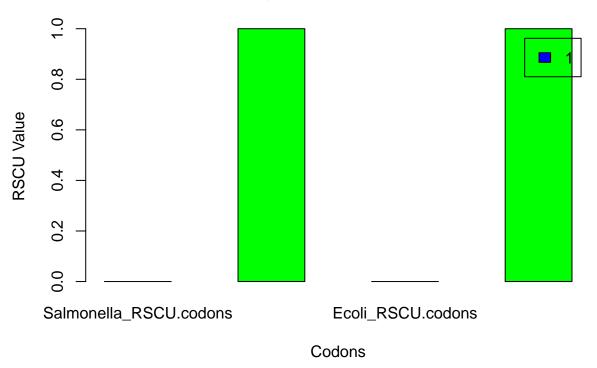
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## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
```

```
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
## Warning in s2c(seq): Wrong argument type in s2c(), NA returned
e_coli_codon_usage <- prop.table(e_coli_codon_usage)</pre>
# Combine and view results
codon usage table <- data.frame(</pre>
 Codon = names(salmonella_codon_usage),
 Salmonella = as.numeric(salmonella_codon_usage),
 Ecoli = as.numeric(e_coli_codon_usage)
head(codon_usage_table)
   Codon Salmonella Ecoli
## 1
### Quantifying Codon Usage Bias (RSCU)
# Function to calculate RSCU (Relative Synonymous Codon Usage)
calculate_rscu <- function(codon_usage, codon_table) {</pre>
 rscu_values <- codon_usage / mean(codon_usage[codon_table]) # Normalizing by synonymous codons
  return(rscu_values)
# Calculate RSCU for both organisms
salmonella rscu <- calculate rscu(salmonella codon usage, codon usage table $Codon)
e_coli_rscu <- calculate_rscu(e_coli_codon_usage, codon_usage_table$Codon)
# Combine RSCU results in a table
rscu_table <- data.frame(</pre>
 Codon = codon_usage_table$Codon,
  Salmonella RSCU = salmonella rscu,
  Ecoli_RSCU = e_coli_rscu
```

```
head(rscu_table)
    Codon Salmonella_RSCU.codons Salmonella_RSCU.Freq Ecoli_RSCU.codons
## 1
##
    Ecoli_RSCU.Freq
## 1
# Convert columns to numeric
rscu_table <- data.frame(lapply(rscu_table, function(x) as.numeric(as.character(x))), stringsAsFactors
# Check for complete cases and remove non-numeric entries
rscu_table <- rscu_table[complete.cases(rscu_table), ]</pre>
# Check structure
str(rscu_table)
## 'data.frame': 1 obs. of 5 variables:
## $ Codon
                            : num 0
## $ Salmonella_RSCU.codons: num 0
## $ Salmonella_RSCU.Freq : num 1
## $ Ecoli_RSCU.codons
                           : num 0
## $ Ecoli_RSCU.Freq
                           : num 1
# Create the bar plot
barplot(as.matrix(rscu_table[, -1]),
       beside = TRUE,
        col = c("blue", "green"),
       legend = rownames(rscu_table),
       xlab = "Codons",
       ylab = "RSCU Value",
       main = "Codon Usage Bias Comparison (RSCU)")
```

Codon Usage Bias Comparison (RSCU)



Q5 Attempt 2

Codon usage table for Salmonella

```
codon_salmonella <- readSet(file="https://ftp.ensemblgenomes.ebi.ac.uk/pub/bacteria/release-59/fasta/ba
## Warning: `progress_estimated()` was deprecated in dplyr 1.0.0.
## i The deprecated feature was likely used in the coRdon package.
     Please report the issue at <a href="https://github.com/BioinfoHR/coRdon/issues">https://github.com/BioinfoHR/coRdon/issues</a>.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
codon_tab_salmonella <- codonTable(codon_salmonella)</pre>
head(codon_tab_salmonella)
## codonTable instance with codon counts from 6 sequences.
## 1 ENSB:rzMRPrOXj2f6n3A cds primary_assembly:ASM551873v1:contig00038:4502:4918:-1 gene:ENSB:rzMRPrOXj
## 2
                             ENSB:x3MzlaR1iM6Op6v cds primary_assembly:ASM551873v1:contig00003:321788:32
                      ENSB:btfdQZt4_vWjqOV cds primary_assembly:ASM551873v1:contig00009:90040:92652:1 ge
## 3
## 4
       ENSB:IZ64ldiL3-oOAYf cds primary_assembly:ASM551873v1:contig00025:33632:34945:1 gene:ENSB:IZ64ld
## 5
                                                                                         ENSB:9CMZH1Fso1POuR
           ENSB: WDGo7WHsQXy-ZVK cds primary_assembly: ASM551873v1:contig00004:270379:271296:1 gene: ENSB:
## 6
     length AAA AAC AAG AAT ACA ACC ACG ACT AGA AGC AGG AGT ATA ATC ATG ATT CAA
## 1
        139
                   7
                           8
                                0
                                    8
                                        4
                                             1
                                                 2
                                                     1
                                    2
                                             2
## 2
        134
                                        2
                                                 1
                                                         1
```

```
## 3
          871
                 17
                      22
                             5
                                 25
                                                 23
                                                       3
                                                                 37
                                                                                                      17
                                       6
                                           24
                                                             1
                                                                           11
                                                                                  6
                                                                                      11
                                                                                           10
## 4
                 14
                                                  7
                                                       2
                                                                                  5
                                                                                      22
                                                                                           23
                                                                                                       3
          438
                       5
                             1
                                  3
                                       0
                                           14
                                                             0
                                                                  4
                                                                       0
                                                                             4
                                                                                                29
## 5
           55
                  3
                       0
                             0
                                  0
                                             0
                                                  2
                                                             0
                                                                  0
                                                                                  2
                                                                                                       0
                                  7
                                                                                                       5
          306
                 12
                        4
                             4
                                                       0
                                                             2
                                                                  9
                                                                       0
                                                                             3
                                                                                  2
## 6
                                       1
                                             5
                                                  5
                                                                                       4
                                                                                           16
                                                                                                15
##
      CAC CAG
                 CAT
                      CCA
                           CCC
                                 CCG
                                      CCT
                                           CGA
                                                 CGC
                                                      CGG
                                                           CGT
                                                                 CTA
                                                                      CTC
                                                                           CTG
                                                                                CTT
                                                                                      GAA
                                                                                           GAC
                                                                                                GAG
                                                                                                      GAT
                              3
                                                        0
                                                                              2
                                                                                         2
## 1
         0
              6
                         2
                                   0
                                              0
                                                              3
                                                                   0
                                                                         3
                                                                                              3
                                                                                                         6
                   1
                                         1
                                                   1
                                                                                   1
                              0
                                                                                              2
## 2
         0
              6
                   0
                         0
                                   5
                                         1
                                              0
                                                   6
                                                        0
                                                              4
                                                                   0
                                                                         1
                                                                              5
                                                                                   2
                                                                                       12
## 3
         1
             19
                   8
                         1
                              6
                                  20
                                         9
                                              4
                                                  25
                                                        9
                                                             16
                                                                   3
                                                                         3
                                                                             34
                                                                                  10
                                                                                       14
                                                                                             21
                                                                                                  11
                                                                                                       33
## 4
         4
              6
                   2
                         1
                              6
                                  13
                                         0
                                              1
                                                   5
                                                         1
                                                              7
                                                                   1
                                                                         6
                                                                             25
                                                                                   3
                                                                                         8
                                                                                              5
                                                                                                   3
                                                                                                         8
                   0
                                         2
                                                         0
                                                              0
                                                                   0
                                                                              3
## 5
         1
              0
                         1
                              0
                                   1
                                              0
                                                   1
                                                                         0
                                                                                   1
                                                                                         0
                                                                                              0
                                                                                                   3
                                                                                                         1
##
   6
         3
              7
                   5
                         0
                              0
                                  11
                                         2
                                              2
                                                   8
                                                         6
                                                              5
                                                                   0
                                                                         5
                                                                             17
                                                                                   3
                                                                                       10
                                                                                              4
                                                                                                  11
                                                                                                         8
           GCC
                 GCG
                      GCT
                                 GGC
                                      GGG
                                           GGT
                                                      GTC
                                                           GTG
                                                                GTT
                                                                      TAA
                                                                           TAC
                                                                                      TAT
                                                                                                TCC
                                                                                                     TCG
##
      GCA
                           GGA
                                                 GTA
                                                                                TAG
                                                                                           TCA
## 1
              1
                   2
                         4
                              4
                                   2
                                         2
                                              4
                                                         1
                                                              3
                                                                         1
                                                                              0
                                                                                   0
                                                                                         2
                                                                                              4
                                                                                                   1
                                                                                                         3
         1
                                                   1
                                                                   1
                   3
                                              2
                                                                   2
## 2
         3
              4
                         3
                              1
                                         1
                                                   0
                                                         1
                                                              0
                                                                         1
                                                                              0
                                                                                   0
                                                                                         1
                                                                                              1
                                                                                                   1
                                                                                                         0
         8
             23
                             17
                                  47
                                       19
                                                   9
                                                             27
                                                                            26
                                                                                       25
                                                                                              7
                                                                                                   7
                                                                                                       14
## 3
                  39
                         4
                                             11
                                                       15
                                                                   5
                                                                         1
                                                                                   0
## 4
         4
             12
                  17
                         3
                              6
                                  28
                                         9
                                              5
                                                   4
                                                       16
                                                             15
                                                                  10
                                                                         1
                                                                              5
                                                                                   0
                                                                                        5
                                                                                              1
                                                                                                   4
                                                                                                         3
                   2
                         3
                              0
                                                                              0
                                                                                              0
## 5
         1
              1
                                   0
                                         1
                                              0
                                                         1
                                                              3
                                                                   1
                                                                                   0
                                                                                         0
                                                                                                   1
                                                                                                         1
                                                   1
                                                                         1
##
              5
                  14
                         2
                              3
                                   9
                                         3
                                              3
                                                   2
                                                              6
                                                                   5
                                                                                              0
                                                                                                         4
      TCT
                                TTA TTC TTG TTT
##
           TGA TGC TGG TGT
##
         0
              0
                   0
                         1
                              0
                                   3
                                         2
                                              4
                                                   7
##
   2
         2
              0
                   0
                         1
                              0
                                   4
                                         4
                                              2
                                                   3
## 3
                                             13
                                                  22
         6
              0
                   0
                       19
                              5
                                   5
## 4
         3
              0
                   3
                         4
                              0
                                         6
                                              8
                                                  17
                                   8
                              3
## 5
         0
              0
                   1
                         1
                                   1
                                         0
                                              1
## 6
         0
              0
                   3
                         2
                              0
                                   5
                                         1
                                                  10
```

The Salmonella Fasta file was read by the command readSet () to create a codon table, which the first six values of each codon can be seen above.

Codon usage table for E-coli

3

4

3 11

```
codon e coli <- readSet(file="http://ftp.ensemblgenomes.org/pub/bacteria/release-53/fasta/bacteria 0 co
codon_tab_e_coli <- codonTable(codon_e_coli)</pre>
head(codon_tab_e_coli)
## codonTable instance with codon counts from 6 sequences.
##
## 1
                                 AAC73112 cds chromosome:ASM584v2:Chromosome:190:255:1 gene:b0001 gene bio
## 2 AAC73113 cds chromosome: ASM584v2: Chromosome: 337:2799:1 gene: b0002 gene_biotype: protein_coding tran
                                       AAC73114 cds chromosome:ASM584v2:Chromosome:2801:3733:1 gene:b0003
## 3
## 4
                                      AAC73115 cds chromosome:ASM584v2:Chromosome:3734:5020:1 gene:b0004 g
## 5
                AAC73116 cds chromosome: ASM584v2: Chromosome: 5234:5530:1 gene: b0005 gene_biotype: protein_
## 6
              AAC73117 cds chromosome:ASM584v2:Chromosome:5683:6459:-1 gene:b0006 gene_biotype:protein_c
##
     length AAA AAC AAG AAT ACA ACC ACG ACT AGA AGC AGG AGT ATA ATC ATG ATT CAA
## 1
         22
                   1
                        0
                            0
                                 1
                                     7
                                          0
                                              0
                                                  0
                                                           0
                                                                0
                                                                    0
                                                                        1
                                                                             1
                                                                                 3
               1
                                                       1
                                                                                      0
## 2
        821
              22
                  16
                       12
                           22
                                 2
                                    19
                                              5
                                                  0
                                                      12
                                                           2
                                                                3
                                                                       15
                                                                            23
                                                                                30
                                                                                     11
## 3
                   6
                        7
                                 2
                                     3
                                                                                      3
        311
               3
                            6
                                          3
                                              1
                                                  0
                                                       4
                                                           1
                                                                3
                                                                    0
                                                                        9
                                                                            10
                                                                                 7
##
         429
              17
                   11
                        5
                            8
                                 2
                                    11
                                          6
                                              4
                                                  0
                                                       6
                                                           0
                                                                3
                                                                    0
                                                                        9
                                                                             8
                                                                                 8
                                                                                      5
   4
                        2
                            2
                                 0
                                     0
                                              0
                                                  0
                                                       0
                                                           0
                                                                0
                                                                             2
                                                                                      2
## 5
         99
               5
                   0
                                         1
                                                                    1
                                                                        1
                                                                                 1
        259
                    4
                        7
                            9
                                 0
                                     6
                                          6
                                              1
                                                  0
                                                       7
                                                           0
                                                                1
                                                                                      5
              11
                  CCA CCC
                           CCG
                               CCT
                                    CGA CGC CGG
                                                 CGT CTA
                                                          CTC
                                                              CTG
##
     CAC CAG CAT
                                                                   CTT GAA GAC
                                                                                GAG GAT
       0
            0
                     0
                         0
                             0
                                  0
                                      0
                                           1
                                               0
                                                   0
                                                        0
                                                            0
                                                                 0
                                                                     0
                                                                         0
                                                                              0
                                                                                  0
## 1
                0
## 2
       6
           19
                8
                     2
                         6
                            18
                                  3
                                      3
                                         19
                                               4
                                                  18
                                                        2
                                                           13
                                                               43
                                                                     8
                                                                        40
                                                                             14
                                                                                 13
                                                                                      30
```

5 15

6 29

2 15

4 10

```
## 5
              2
                   6
                        2
                                  5
                                                  4
                                                       0
                                                            2
                                                                 1
                                                                           2
                                                                                      2
                                                                                           1
                                                                                                     4
                             1
                                        1
                                             1
                                                                      1
                                                                                 1
   6
         0
              9
                   3
                        2
                             0
                                  7
                                       3
                                             2
                                                  7
                                                       2
                                                            4
                                                                 0
                                                                      4
                                                                          15
                                                                                 4
                                                                                      7
                                                                                           4
                                                                                                9
                                                                                                    13
##
      GCA
           GCC
                GCG GCT
                          GGA
                               GGC
                                     GGG GGT GTA GTC
                                                         GTG
                                                              GTT
                                                                   TAA
                                                                         TAC TAG TAT TCA TCC
                                                                                                   TCG
        0
              0
                             0
                                             2
                                                  0
                                                       0
                                                            0
                                                                 0
                                                                      0
                                                                           0
                                                                                      0
                                                                                           0
                                                                                                0
                                                                                                     0
## 1
                   1
                        0
                                  1
                                        0
                                                                                 0
##
   2
       14
             36
                 26
                       15
                             9
                                 22
                                      10
                                           22
                                                  5
                                                      18
                                                           27
                                                                19
                                                                      0
                                                                           8
                                                                                 0
                                                                                     12
                                                                                           6
                                                                                               10
                                                                                                      9
   3
              9
                             2
                                       5
                                                  3
                                                       5
                                                            7
                                                                 8
                                                                           3
                                                                                                      3
##
        6
                  17
                        5
                                 12
                                             8
                                                                                 0
                                                                                      5
                                                                                           1
                                                                                                6
                                                                      1
        5
              8
                             2
                                        4
                                                  2
                                                       5
                                                                 5
                                                                                           3
                                                                                                2
                                                                                                      5
## 4
                  24
                       10
                                 11
                                           11
                                                           15
                                                                      1
                                                                           5
                                                                                 0
                                                                                      4
                             2
                                                       2
## 5
         3
              0
                   1
                        3
                                  6
                                        0
                                             3
                                                  2
                                                            1
                                                                 1
                                                                      1
                                                                            1
                                                                                 0
                                                                                      2
                                                                                           1
                                                                                                1
                                                                                                      0
## 6
         3
              6
                   8
                        2
                             1
                                  6
                                        2
                                             5
                                                  1
                                                       1
                                                            5
                                                                 0
                                                                      1
                                                                           5
                                                                                 0
                                                                                      5
                                                                                           2
                                                                                                4
                                                                                                      1
           TGA TGC
                     TGG TGT
                                     TTC TTG
##
      TCT
                               TTA
                                               TTT
## 1
         0
              1
                   0
                        0
                             0
                                  0
                                        0
                                             0
                                                  0
                   9
                             3
##
   2
       11
              1
                        4
                                 10
                                      19
                                           13
                                                 11
## 3
        0
              0
                   6
                        4
                             3
                                  3
                                       4
                                             6
                                                  6
                             3
## 4
         0
              0
                   1
                        3
                                  5
                                      11
                                           12
                                                 13
              0
                        6
                             0
                                  2
                                       0
                                                  0
## 5
         1
                   0
                                             0
                        2
## 6
         0
              0
                   0
                             0
                                  2
                                        8
                                             6
                                                  8
```

The *E.coli* Fasta file was read by the command readSet () to create a codon table, which the first six values of each codon can be seen above.

Codon bias for salmonella

```
salmonella_milc <- MILC(codon_tab_salmonella)
head(salmonella_milc)

## self
## [1,] 0.7199963
## [2,] 0.5252359
## [3,] 0.5502128
## [4,] 0.5231461
## [5,] 0.7078510
## [6,] 0.5652358</pre>
```

The codon bias of Salmonella's first 6 genes is shown above, to find this the MILC() command was used, with the head() command.

Codon bias for E-coli

```
e_coli_milc <- MILC(codon_tab_e_coli)
head(e_coli_milc)

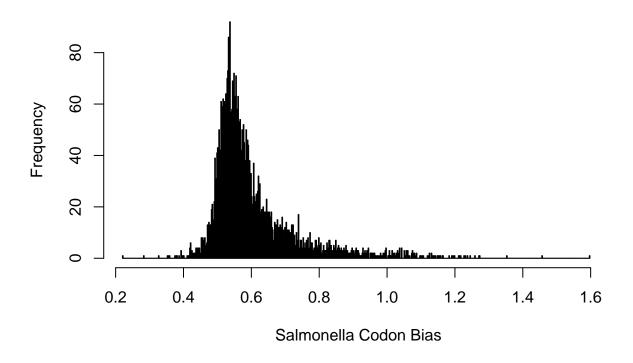
## self
## [1,] 0.4690096
## [2,] 0.5160116
## [3,] 0.5034795
## [4,] 0.5419666
## [5,] 0.4711169
## [6,] 0.5398071</pre>
```

The codon bias of *E.coli's* first 6 genes is shown above, to find this the MILC() command was used, with the head() command.

Histogram of Codon bias in Salmonella

```
hist(salmonella_milc,
    main = "Salmonella Codon Bias Histogram",
    xlab = " Salmonella Codon Bias", ylab = "Frequency", breaks=500)
```

Salmonella Codon Bias Histogram

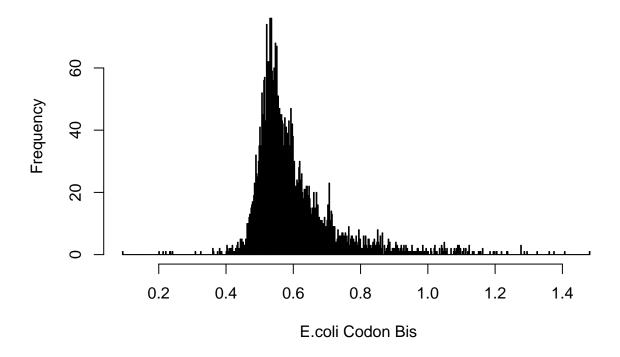


Shown above is a histogram displaying the Salmonella Codon Bias, this was visualised with the hist() command.

Histogram of Codon bias in E.coli

```
hist(e_coli_milc,
    main = "E.coli Codon Bias Histogram",
    xlab = " E.coli Codon Bis", ylab = "Frequency",breaks=500)
```

E.coli Codon Bias Histogram



Shown above is a histogram displaying the *E.coli* Codon Bias, this was visualised with the hist() command.

The Salmonella histogram shows a higher frequency of codon bias around 0.5 to 0.6, with the spread of bias from approximately 0.2 to 1.6. The histogram of E.coli shows a higher frequency of codon bias around 0.5 to 0.6, with the spread of bias being from approximately 0.2 to 1.4. The Codon bias for both Salmonella and E.coli show a similar histogram shape, indicating a similar codon bias between both organisms.

Q6

Creating amino acid alphabet and unlisting Salmonella proteins

```
salmonella_prot <- lapply(salmonella, translate)
salmonella_prots <- unlist(salmonella_prot)

head(salmonella_prots)

## ENSB:rzMRPrOXj2f6n3A1 ENSB:rzMRPrOXj2f6n3A2 ENSB:rzMRPrOXj2f6n3A3
## "M" "R" "V"

## ENSB:rzMRPrOXj2f6n3A4 ENSB:rzMRPrOXj2f6n3A5 ENSB:rzMRPrOXj2f6n3A6
## "K" "H" "A"

aa <- unique(salmonella_prot[[2]])
aa <- aa[aa != "*"]</pre>
```

Creating data frame of 3 length K-mers in Salmonella

```
salmonella_counts_3 <- count(salmonella_prots,wordsize=3,alphabet=aa)
head(salmonella_counts_3)</pre>
```

```
##
## AAA AAD AAE AAF AAG
                             AAI
## 1575
        630 782 534 1185
                             893
df_salmonella_counts_3 <- as.data.frame(salmonella_counts_3)</pre>
head(df_salmonella_counts_3)
##
     Var1 Freq
## 1
     AAA 1575
## 2
      AAD
           630
## 3
     AAE
           782
     AAF
           534
## 5
     AAG 1185
## 6
      AAI
           893
```

A data frame of 3 length K-mers was created for *Salmonella* to be able to be able to sort over represented and underrepresented 3 length k-mers. The data frame was created with the as.data.frame() command.

Creating data frame of 3 length K-mers in E.coli

```
e_coli_prot <- lapply(e_coli, translate)</pre>
e_coli_prots <- unlist(e_coli_prot)</pre>
head(e_coli_prots)
## AAC731121 AAC731122 AAC731123 AAC731124 AAC731125 AAC731126
                    "K"
                              "R"
                                         "I"
e_coli_counts_3 <- count(e_coli_prots,wordsize=3,alphabet=aa)</pre>
head(e_coli_counts_3)
##
##
  AAA AAD AAE AAF AAG
                              AAI
## 1338 568
             749 481 1075
                              863
df_e_coli_counts_3 <- as.data.frame(e_coli_counts_3)</pre>
head(df_e_coli_counts_3)
##
     Var1 Freq
## 1 AAA 1338
## 2 AAD 568
## 3 AAE 749
## 4
      AAF
           481
## 5
      AAG 1075
     AAI
```

A data frame of 3 length K-mers was created for *E.coli* to be able to be able to sort over represented and underrepresented 3 length k-mers. The data frame was created with the as.data.frame() command.

Top 10 most overrepressented 3 length K-mers in Salmonella

```
over_salmonella_counts_3 <-arrange(df_salmonella_counts_3,-Freq)
head(over_salmonella_counts_3,10)

## Var1 Freq
## 1 LLA 1973</pre>
```

```
## 2
       ALL 1950
## 3
       ALA 1949
## 4
       LAA 1752
## 5
       AAL 1749
## 6
       LLL 1723
## 7
       LAL 1700
## 8
       AAA 1575
## 9
       LAG 1273
## 10
      TLL 1205
```

Top 10 most overrepressented 3 length K-mers in E.coli

```
over_e_coli_counts_3 <-arrange(df_e_coli_counts_3,-Freq)</pre>
head(over_e_coli_counts_3,10)
##
      Var1 Freq
## 1
       LLA 1817
## 2
       ALL 1744
## 3
       ALA 1740
## 4
       LAA 1601
       AAL 1594
## 5
## 6
       LLL 1594
## 7
       LAL 1536
## 8
       AAA 1338
## 9
       LAG 1178
## 10 TLL 1102
```

The 3 length K-mers overrepresented in *Salmonella* and *E.coli*, are all the same, and in the same order of overrepresentation, however they do vary on the amount of representation In the gene. The identification of the overrepresented 3 length K-mers were found by using the arrange() command, with a - negative frequency, to order the data frame in decreasing order.

Top 10 most underrepressented 3 length K-mers in Salmonella

```
under_salmonella_counts_3 <-arrange(df_salmonella_counts_3,Freq)
head(under_salmonella_counts_3,10)
##
      Var1 Freq
## 1
       WWW
               5
               6
## 2
       WMW
## 3
       YMW
               6
               7
## 4
       NWW
## 5
       MWP
               8
## 6
       WWT
               8
## 7
               9
       MWN
## 8
       MWW
               9
               9
## 9
       WYW
## 10
       KWW
              10
```

Top 10 most underrepressented 3 length K-mers in E.coli

```
under_e_coli_counts_3 <-arrange(df_e_coli_counts_3,Freq)
head(under_e_coli_counts_3,10)</pre>
```

```
## Var1 Freq
```

```
## 1
       WMW
                5
## 2
       WWW
                6
## 3
       YMW
                6
                7
## 4
       MWW
## 5
       NWW
                7
## 6
                7
       WWT
## 7
                9
       FKW
## 8
       WWM
                9
## 9
        WYW
                9
## 10 KWW
              10
```

The 3 length K-mers underrepresented in Salmonella and E.coli, share similar K-mers, with majority of the K-mers shown being in both organism, with a few exceptions of 'FKW' in Salmonella and 'MWN' in E.coli, the shared K-mers do vary on the amount of representation In the gene. The identification of the underrepresented 3 length K-mers were found by using the arrange() command, with a + positive frequency, to order the data frame in increasing order.

Creating data frame of 4 length K-mers in Salmonella

```
salmonella_counts_4 <- count(salmonella_prots,wordsize=4,alphabet=aa)</pre>
head(salmonella_counts_4)
##
## AAAA AAAD AAAE AAAF AAAG AAAI
   196
          58
               81
                     58 141 104
df_salmonella_counts_4 <- as.data.frame(salmonella_counts_4)</pre>
head(df salmonella counts 4)
##
     Var1 Freq
## 1 AAAA
           196
## 2 AAAD
            58
## 3 AAAE
            81
## 4 AAAF
            58
## 5 AAAG
           141
## 6 AAAI
```

A data frame of 4 length K-mers was created for *Salmonella* to be able to be able to sort over represented and underrepresented 4 length k-mers. The data frame was created with the as.data.frame() command.

Creating data frame of 4 length K-mers in E.coli

```
e_coli_counts_4 <- count(e_coli_prots,wordsize=4,alphabet=aa)</pre>
head(e_coli_counts_4)
##
## AAAA AAAD AAAE AAAF AAAG AAAI
   148
          56
               76
                     38 100
                                88
df_e_coli_counts_4 <- as.data.frame(e_coli_counts_4)</pre>
head(df_e_coli_counts_4)
     Var1 Freq
           148
## 1 AAAA
## 2 AAAD
            56
            76
## 3 AAAE
## 4 AAAF
            38
```

```
## 5 AAAG 100
## 6 AAAI 88
```

A data frame of 4 length K-mers was created for E.coli to be able to be able to sort over represented and underrepresented 4 length k-mers. The data frame was created with the as.data.frame() command.

Top 10 most overrepressented 4 length K-mers in Salmonella

```
over_salmonella_counts_4 <-arrange(df_salmonella_counts_4,-Freq)</pre>
head(over_salmonella_counts_4,10)
##
      Var1 Freq
## 1
      ALAA
            255
## 2
      ALLA
            252
## 3
     LLAL
            239
## 4
      AALA
            238
      LAAL
            233
## 5
## 6
     LLLL
            224
## 7
     LLAA
            218
## 8 LALA
            214
## 9
     ALAL
            213
## 10 LALL
            212
```

Top 10 most overrepressented 4 length K-mers in E.coli

```
over_e_coli_counts_4 <-arrange(df_e_coli_counts_4,-Freq)</pre>
head(over_e_coli_counts_4,10)
##
      Var1 Freq
## 1
     LAAL
            234
## 2
     ALAA
            233
## 3
     LLAL
            215
## 4
     LLLL
            209
## 5
            207
      AALA
## 6
     LLAA
            206
## 7
     LLLA
            197
## 8
     LALA
            196
## 9 LALL
            195
## 10 ALLA
```

The 4 length K-mers overrepresented in *Salmonella* and *E.coli*, share similar K-mers, with majority of the K-mers shown being in both organisms, with a few exceptions of 'ALAL' in *Salmonella* and 'LLLA' in *E.coli*, the shared K-mers do vary on the amount of representation In the gene. The identification of the over represented 4 length K-mers were found by using the arrange() command, with a - negative frequency, to order the data frame in decreasing order.

Top 10 most underrepressented 4 length K-mers in Salmonella

```
under_salmonella_counts_4 <-arrange(df_salmonella_counts_4,Freq)
head(under_salmonella_counts_4,10)

## Var1 Freq
## 1 ADPW 0
## 2 AFKM 0
## 3 AFMW 0</pre>
```

```
## 4
      AGWW
## 5
      AKQW
               0
## 6
      AKWN
               0
## 7
      AKWP
               0
## 8
      AKWW
               0
## 9
      AMMF
               0
## 10 AMNW
               0
```

Top 10 most underrepressented 4 length K-mers in E.coli

```
under_e_coli_counts_4 <-arrange(df_e_coli_counts_4,Freq)
head(under_e_coli_counts_4,10)
##
      Var1 Freq
## 1
      AEMW
## 2
      AEWW
               0
## 3
      AEWY
               0
## 4
      AFMK
               0
## 5
      AFWI
               0
      AKWF
## 6
               0
## 7
      AKWT
               0
## 8
      AMMW
               0
## 9
      AMNW
               0
## 10 AMWE
               0
```

The 4 length K-mers underrepresented in Salmonella and E.coli, all show 0 representation, as there is just 10 K-mers shown, there are other K-mers also at 0 representation, so while there are limited shared K-mers between both organisms shown in the results, more shared K-mers of underrepresentation cannot be ruled out. The identification of the underrepresented 4 length K-mers were found by using the arrange() command, with a + positive frequency, to order the data frame in increasing order.

Creating data frame of 5 length K-mers in Salmonella

```
salmonella_counts_5 <- count(salmonella_prots,wordsize=5,alphabet=aa)</pre>
head(salmonella_counts_5)
##
## AAAAA AAAAD AAAAE AAAAF AAAAG AAAAI
                    9
                           4
                                17
df_salmonella_counts_5 <- as.data.frame(salmonella_counts_5)</pre>
head(df_salmonella_counts_5)
##
      Var1 Freq
## 1 AAAAA
             45
## 2 AAAAD
             13
## 3 AAAAE
              9
               4
## 4 AAAAF
## 5 AAAAG
             17
## 6 AAAAI
```

A data frame of 5 length K-mers was created for *Salmonella* to be able to be able to sort over represented and underrepresented 5 length k-mers. The data frame was created with the as.data.frame() command.

Creating data frame of 5 length K-mers in E.coli

```
e_coli_counts_5 <- count(e_coli_prots,wordsize=5,alphabet=aa)</pre>
head(e_coli_counts_5)
##
## AAAAA AAAAD AAAAE AAAAF AAAAG AAAAI
##
      27
             5
                   10
                          4
                                13
df_e_coli_counts_5 <- as.data.frame(e_coli_counts_5)</pre>
head(df_e_coli_counts_5)
##
      Var1 Freq
## 1 AAAAA
             27
## 2 AAAAD
## 3 AAAAE
             10
## 4 AAAAF
              4
## 5 AAAAG
             13
## 6 AAAAI
             10
```

A data frame of 5 length K-mers was created for *E.coli* to be able to be able to sort over represented and underrepresented 5 length k-mers. The data frame was created with the as.data.frame() command.

Top 10 most overrepressented 5 length K-mers in Salmonella

```
over_salmonella_counts_5 <-arrange(df_salmonella_counts_5,-Freq)</pre>
head(over_salmonella_counts_5,10)
##
       Var1 Freq
## 1 GKSTL
## 2 AAAAA
              45
## 3 LLLAL
              43
## 4 AALAA
              42
## 5 GSGKS
## 6 AALLA
              39
## 7 ALAAL
              37
## 8 LAAAL
              36
## 9 ALALA
              33
## 10 LLALA
              33
```

Top 10 most overrepressented 5 length K-mers in E.coli

```
over_e_coli_counts_5 <-arrange(df_e_coli_counts_5,-Freq)
head(over_e_coli_counts_5,10)</pre>
```

```
##
      Var1 Freq
## 1 GKSTL
             58
## 2 GSGKS
             42
## 3 AALAA
             37
## 4 LLAAL
             37
## 5 SGSGK
             37
## 6 LLLDE
             35
## 7 LAAAL
             34
## 8 LLLAL
             34
## 9 LLLLL
             34
## 10 LDEPT
             33
```

The 5 length K-mers overrepresented in *Salmonella* and E.coli, some similar K-mers, with approximately half being shown in both organisms, with the exceptions of "AAAAA", "AALLA", "ALAAL", "ALALA" in *Salmonella* and "SGSGK", "LLLDE", "LLLLL", "LDEPT" in *E.coli*, the shared K-mers do vary on the amount of representation In the gene. The identification of the overrepresented 5 length K-mers were found by using the arrange() command, with a - negative frequency, to order the data frame in decreasing order.

Top 10 most underrepressented 5 length K-mers in Salmonella

```
under_salmonella_counts_5 <-arrange(df_salmonella_counts_5,Freq)
head(under_salmonella_counts_5,10)
##
       Var1 Freq
## 1
      AAAW
               0
## 2
      AAADP
               0
## 3
     AAADQ
               0
## 4
      AAADS
               0
## 5
      AAAEW
               0
## 6
     AAAEY
               Λ
      AAAFK
## 7
               0
     AAAFM
## 8
               0
## 9
      AAAIF
               0
## 10 AAAIW
               Λ
```

Top 10 most underrepressented 5 length K-mers in E.coli

```
under_e_coli_counts_5 <-arrange(df_e_coli_counts_5,Freq)
head(under_e_coli_counts_5,10)</pre>
```

```
##
       Var1 Freq
## 1
     AAAAW
               0
## 2
     AAADF
               0
     AAADM
## 3
               0
     AAADN
## 4
               0
## 5 AAADS
               0
## 6 AAADW
               0
## 7
     AAAEE
               0
## 8
     AAAEW
               0
## 9 AAAFD
               0
## 10 AAAFK
```

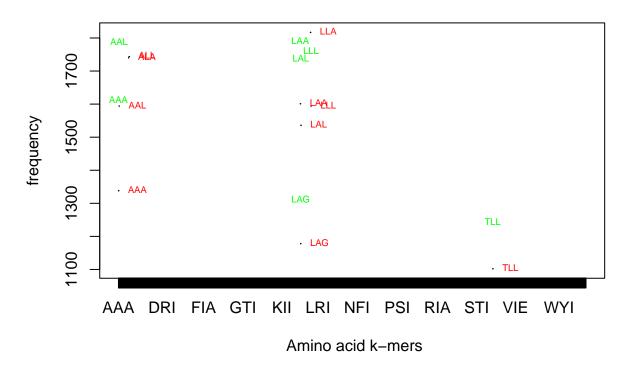
The 5 length K-mers underrepresented in *Salmonella* and *E.coli*, all show 0 representation, as there is just 10 K-mers shown, there are other K-mers also at 0 representation, so while there are limited shared K-mers between both organisms shown in the results, more shared K-mers of underrepresentation cannot be ruled out. The identification of the underrepresented 5 length K-mers were found by using the arrange() command, with a + positive frequency, to order the data frame in increasing order.

Plot of K-mers of 3 amino acids overrepresented of Salmonella compared to E.coli

```
ecoli_3_over <- data.frame(over_e_coli_counts_3[,-1], row.names=over_e_coli_counts_3[,1])
salmonella_3_over <- data.frame(over_salmonella_counts_3[,-1], row.names=over_salmonella_counts_3[,1])
plot(head(over_e_coli_counts_3,10),head(over_salmonella_counts_3,10),
    main = "K-mers of 3 amino acids over represented of *Salmonella* compared to E.coli",
    xlab = " Amino acid k-mers", ylab = "frequency")</pre>
```

```
text(head(over_e_coli_counts_3,10),
    labels = row.names(head(ecoli_3_over,10)),
    cex = 0.6, pos = 4, col = "red")
text(head(over_salmonella_counts_3,10),
    labels = row.names(head(salmonella_3_over,10)),
    cex = 0.6, pos = 3, col = "green")
```

-mers of 3 amino acids over represented of *Salmonella* compared to



The plot above shows the overrepresented 3 Amino acid length K-mers in both Salmonella (Green) and E.coli (red). The plot shows the labelled K-mers and their corresponding frequency, and the closeness in shared K-mers between both organisms, but also shows the variation in frequency between the K-mers when expressed in Salmonella compared to E.coli.

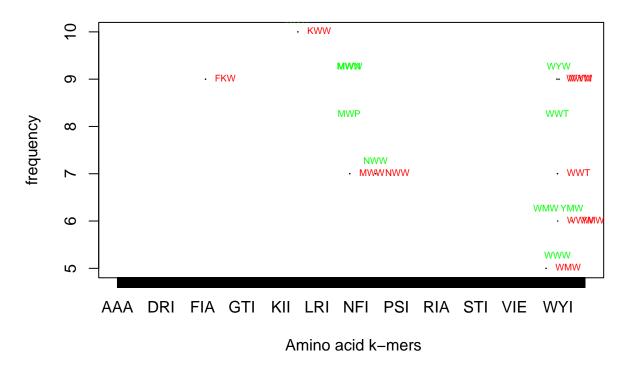
Plot of K-mers of 3 amino acids underrepresented in Salmonella compared to E.coli

```
ecoli_3_under <- data.frame(under_e_coli_counts_3[,-1], row.names=under_e_coli_counts_3[,1])
salmonella_3_under <- data.frame(under_salmonella_counts_3[,-1], row.names=under_salmonella_counts_3[,1])
plot(head(under_e_coli_counts_3,10),head(under_salmonella_counts_3,10),
    main = "K-mers of 3 amino acids under represented of *Salmonella* compared to E.coli",
    xlab = " Amino acid k-mers", ylab = "frequency")

text(head(under_e_coli_counts_3,10),
    labels = row.names(head(ecoli_3_under,10)),
    cex = 0.6, pos = 4, col = "red")
text(head(under_salmonella_counts_3,10),</pre>
```

```
labels = row.names(head(salmonella_3_under,10)),
cex = 0.6, pos = 3, col = "green")
```

-mers of 3 amino acids under represented of *Salmonella* compared to



The plot above shows the underrepresented 3 Amino acid length K-mers in both Salmonella (green) and E.coli (red). The plot shows the labelled K-mers and their corresponding frequency, and the closeness in shared K-mers between both organisms, but also shows the variation in frequency between the K-mers when expressed in Salmonella compared to E.coli.

The variation in K-mer expression in *Salmonella* and *E.coli* is due to the differences in nucleotide sequences which create the proteins, which then create the 3,4,5 length K-mers.

Session Info

sessionInfo()

```
## R version 4.1.2 (2021-11-01)
## Platform: x86_64-pc-linux-gnu (64-bit)
## Running under: Ubuntu 22.04.5 LTS
##
## Matrix products: default
           /usr/lib/x86_64-linux-gnu/blas/libblas.so.3.10.0
## LAPACK: /usr/lib/x86_64-linux-gnu/lapack/liblapack.so.3.10.0
##
## locale:
##
   [1] LC_CTYPE=C.UTF-8
                               LC_NUMERIC=C
                                                      LC_TIME=C.UTF-8
    [4] LC_COLLATE=C.UTF-8
                               LC_MONETARY=C.UTF-8
                                                      LC_MESSAGES=C.UTF-8
   [7] LC_PAPER=C.UTF-8
                               LC NAME=C
                                                      LC ADDRESS=C
```

```
## [10] LC_TELEPHONE=C
                               LC_MEASUREMENT=C.UTF-8 LC_IDENTIFICATION=C
##
## attached base packages:
                graphics grDevices utils
## [1] stats
                                               datasets methods
                                                                   base
## other attached packages:
## [1] coRdon 1.12.0
                           BiocManager 1.30.25 readr 2.1.5
## [4] R.utils_2.12.3
                           R.oo 1.26.0
                                               R.methodsS3_1.8.2
## [7] seqinr_4.2-36
                           dplyr_1.1.4
##
## loaded via a namespace (and not attached):
## [1] tidyselect_1.2.1
                               xfun_0.48
                                                      purrr_1.0.2
## [4] colorspace_2.1-1
                               vctrs_0.6.5
                                                      generics_0.1.3
## [7] htmltools_0.5.8.1
                               stats4_4.1.2
                                                      yaml_2.3.10
## [10] utf8_1.2.4
                               rlang_1.1.4
                                                      pillar_1.9.0
## [13] glue_1.8.0
                               BiocGenerics_0.40.0
                                                      GenomeInfoDbData_1.2.7
## [16] lifecycle_1.0.4
                               stringr_1.5.1
                                                      zlibbioc_1.40.0
                                                      gtable_0.3.5
## [19] Biostrings 2.62.0
                               munsell 0.5.1
## [22] evaluate_1.0.1
                               Biobase_2.54.0
                                                      knitr_1.48
## [25] tzdb 0.4.0
                               IRanges_2.28.0
                                                      fastmap_1.2.0
## [28] GenomeInfoDb_1.30.1
                               fansi_1.0.6
                                                      highr_0.11
## [31] Rcpp_1.0.13
                               scales_1.3.0
                                                      S4Vectors_0.32.4
## [34] XVector_0.34.0
                               ggplot2_3.5.1
                                                      hms_1.1.3
## [37] digest 0.6.37
                               stringi_1.8.4
                                                      grid 4.1.2
## [40] ade4_1.7-22
                               cli_3.6.3
                                                      tools_4.1.2
## [43] bitops_1.0-9
                               magrittr_2.0.3
                                                      RCurl_1.98-1.16
## [46] tibble_3.2.1
                               crayon_1.5.3
                                                      pkgconfig_2.0.3
## [49] MASS_7.3-55
                                                      rmarkdown_2.28
                               data.table_1.16.2
## [52] rstudioapi_0.16.0
                               R6_2.5.1
                                                      compiler_4.1.2
```