class 13

Kalodiah Toma

```
library(DESeq2)
```

The data for this hands-on session comes from a published RNA-seq experiment where airway smooth muscle cells were treated with dexamethasone, a synthetic glucocorticoid steroid with anti-inflammatory effects (Himes et al. 2014).

counts <- read.csv(“***”, row.names=1) metadata <-*** (”airway_metadata.csv”)

```
counts <- read.csv("airway_scaledcounts.csv", row.names=1)
metadata <-  read.csv("airway_metadata.csv")
head(counts)
```

```
                SRR1039508 SRR1039509 SRR1039512 SRR1039513 SRR1039516
ENSG00000000003        723        486        904        445       1170
ENSG00000000005          0          0          0          0          0
ENSG00000000419        467        523        616        371        582
ENSG00000000457        347        258        364        237        318
ENSG00000000460         96         81         73         66        118
ENSG00000000938          0          0          1          0          2
                SRR1039517 SRR1039520 SRR1039521
ENSG00000000003       1097        806        604
ENSG00000000005          0          0          0
ENSG00000000419        781        417        509
ENSG00000000457        447        330        324
ENSG00000000460         94        102         74
ENSG00000000938          0          0          0
```

```
head(metadata)
```

```
          id     dex celltype     geo_id
1 SRR1039508 control   N61311 GSM1275862
2 SRR1039509 treated   N61311 GSM1275863
3 SRR1039512 control  N052611 GSM1275866
4 SRR1039513 treated  N052611 GSM1275867
5 SRR1039516 control  N080611 GSM1275870
6 SRR1039517 treated  N080611 GSM1275871
```

```
nrow(counts)
```

```
[1] 38694
```

```
sum(metadata$dex == "control")
```

```
[1] 4
```

```
table(metadata$dex)
```

```
control treated
      4       4
```

Q1. How many genes are in this dataset? 38694 Q2. How many 'control' cell lines do we have? 4

I want to compare the control to the treated columns. To do this I will: 1. identify and extract the control columns from the metadata 2. calculate the mean value per gene of the control columns and save as 'control.mean' 3. do the same for the treated columns 4. compare the 'control.mean' and 'treated.mean' values

Step 1:

```
control.inds<-metadata$dex=="control"
control.mean<-rowMeans(counts[,control.inds])
head(control.mean)
```

```
ENSG00000000003 ENSG00000000005 ENSG00000000419 ENSG00000000457 ENSG00000000460
         900.75            0.00          520.50          339.75           97.25
ENSG00000000938
           0.75
```

```
treated.inds<-metadata$dex=="treated"
treated.mean<-rowMeans(counts[,treated.inds])
head(treated.mean)
```

```
ENSG00000000003 ENSG00000000005 ENSG00000000419 ENSG00000000457 ENSG00000000460
         658.00            0.00          546.00          316.50           78.75
ENSG00000000938
           0.00
```

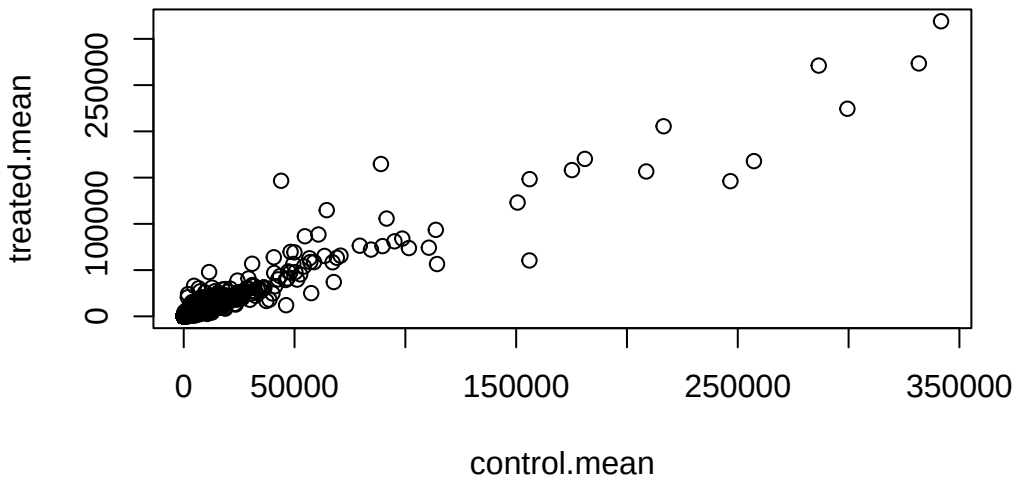
```
#if you wrote the code in one step
treated.mean<-rowMeans(counts[,metadata$dex=="treated"])
```

Q3. How would you make the above code in either approach more robust? Is there a function that could help here? Because using "/4" will only give you values if you have four values. rowMeans will give you the means regardless of the number of values.

Q4. Follow the same procedure for the treated samples (i.e. calculate the mean per gene across drug treated samples and assign to a labeled vector called treated.mean) #treated.mean<-rowMeans(counts[,metadata$dex==="treated"])

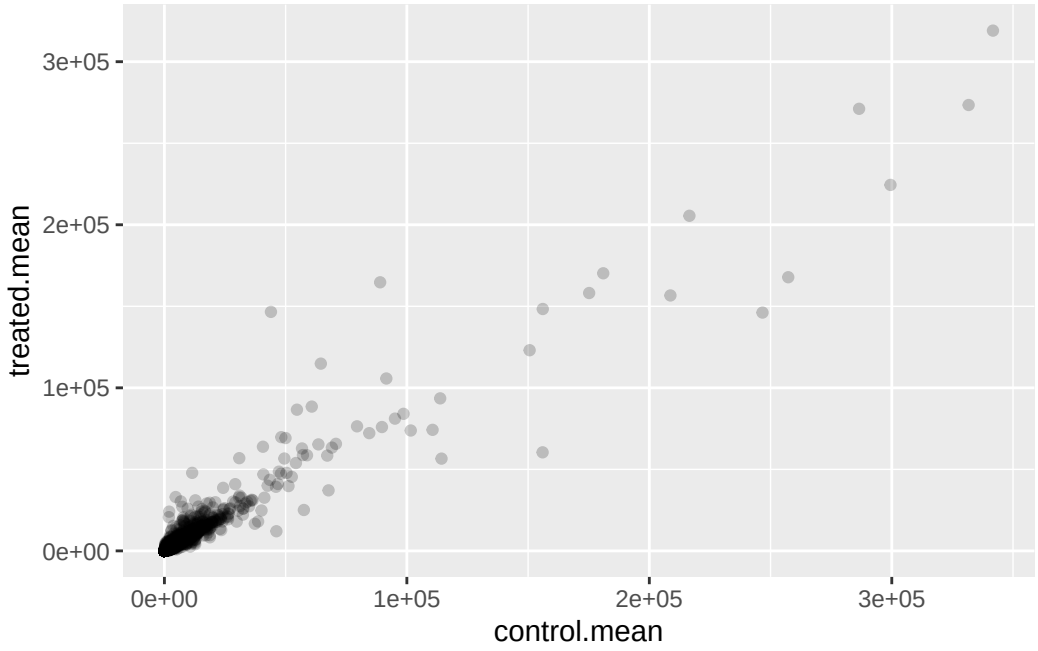
Q5 (a). Create a scatter plot showing the mean of the treated samples against the mean of the control samples. Your plot should look something like the following.

```
meancounts <- data.frame(control.mean, treated.mean)
plot(meancounts)
```



Q5 (b).You could also use the ggplot2 package to make this figure producing the plot below. What geom_?() function would you use for this plot? geom_point

```
library(ggplot2)
ggplot(meancounts)+
  aes(control.mean, treated.mean)+
  geom_point(alpha=0.2)
```

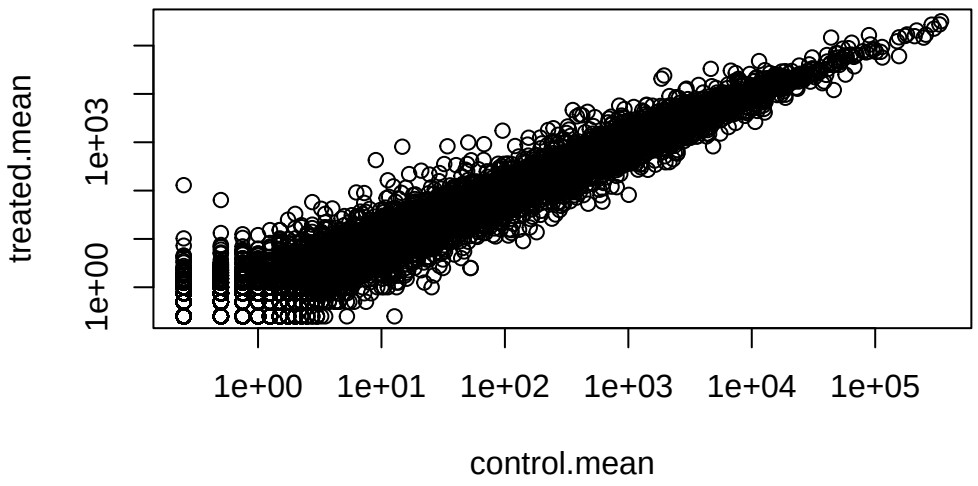


Q6.Try plotting both axes on a log scale. What is the argument to plot() that allows you to do this? #plot(_meancounts___, log="xy")

```
plot(meancounts, log="xy")
```

```
Warning in xy.coords(x, y, xlabel, ylabel, log): 15032 x values <= 0 omitted
from logarithmic plot
```

```
Warning in xy.coords(x, y, xlabel, ylabel, log): 15281 y values <= 0 omitted
from logarithmic plot
```



logs are super useful when we have such skewed data they are also handy when we are most interested in orders of magnitude change

```
#treated/control
log2(10/10)
```

```
[1] 0
```

```
log2(20/10)
```

```
[1] 1
```

```
log2(5/10)
```

```
[1] -1
```

```
log2(40/10)
```

```
[1] 2
```

Add log2(Fold-change) value to our wee results table.

```
meancounts$log2fc<-log2(meancounts$treated/meancounts$control)
head(meancounts)
```

```
                control.mean treated.mean      log2fc
ENSG00000000003       900.75       658.00 -0.45303916
ENSG00000000005         0.00         0.00         NaN
ENSG00000000419       520.50       546.00  0.06900279
ENSG00000000457       339.75       316.50 -0.10226805
ENSG00000000460        97.25        78.75 -0.30441833
ENSG00000000938         0.75         0.00        -Inf
```

I need to exclude any genes with zero counts as we can't say anything about then anyway from this experiment and it causes me math pain.

```
#What values in the first two columns are zero
to.rm.inds <- rowSums(meancounts[,1:2]==0) > 0
mycounts<-meancounts[!to.rm.inds,]
```

Q7. What is the purpose of the arr.ind argument in the which() function call above? Why would we then take the first column of the output and need to call the unique() function? The arr.ind=TRUE argument will clause which() to return both the row and column indices (i.e. positions) where there are TRUE values. In this case this will tell us which genes (rows) and samples (columns) have zero counts. We are going to ignore any genes that have zero counts in any sample so we just focus on the row answer. Calling unique() will ensure we don't count any row twice if it has zero entries in both samples.

How many genes do T have left? 21817

```
nrow(mycounts)
```

```
[1] 21817
```

```
sum(mycounts$log2fc > +2)
```

```
[1] 250
```

```
sum(mycounts$log2fc < -2)
```

```
[1] 367
```

Q8. Using the up.ind vector above can you determine how many up regulated genes we have at the greater than 2 fc level? 250

Q9. Using the down.ind vector above can you determine how many down regulated genes we have at the greater than 2 fc level? 367

Q10. Do you trust these results? Why or why not? Is this data statistically significant? However, fold change can be large (e.g. »two-fold up- or down-regulation) without being statistically significant (e.g. based on p-values). We have not done anything yet to determine whether the differences we are seeing are significant.

##Running DESeq2

Like many bioconductor packages DESeq2 wants it's input in a very particular way.

```
dds <- DESeqDataSetFromMatrix(countData = counts,
                              colData = metadata,
                              design = ~dex)
```

```
converting counts to integer mode
```

```
Warning in DESeqDataSet(se, design = design, ignoreRank): some variables in
design formula are characters, converting to factors
```

To run DESeq analysis we call the main function from the package called 'DESeq(dds)'

```
dds <- DESeq(dds)
```

```
estimating size factors
```

```
estimating dispersions
```

```
gene-wise dispersion estimates
```

```
mean-dispersion relationship
```

```
final dispersion estimates
```

```
fitting model and testing
```

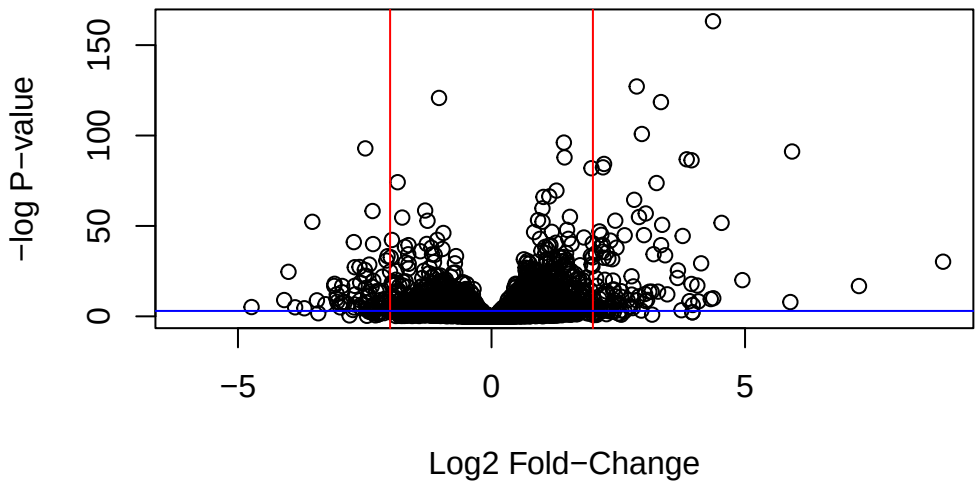
To get the results out of this 'dds' object we can use the DESeq 'results()' function.

```
res <- results(dds)
head(res)
```

```
log2 fold change (MLE): dex treated vs control
Wald test p-value: dex treated vs control
DataFrame with 6 rows and 6 columns
                  baseMean log2FoldChange     lfcSE      stat    pvalue
                 <numeric>      <numeric> <numeric> <numeric> <numeric>
ENSG00000000003 747.194195     -0.3507030  0.168246 -2.084470 0.0371175
ENSG00000000005   0.000000             NA        NA        NA        NA
ENSG00000000419 520.134160      0.2061078  0.101059  2.039475 0.0414026
ENSG00000000457 322.664844      0.0245269  0.145145  0.168982 0.8658106
ENSG00000000460  87.682625     -0.1471420  0.257007 -0.572521 0.5669691
ENSG00000000938   0.319167     -1.7322890  3.493601 -0.495846 0.6200029
                     padj
                <numeric>
ENSG00000000003  0.163035
ENSG00000000005        NA
ENSG00000000419  0.176032
ENSG00000000457  0.961694
ENSG00000000460  0.815849
ENSG00000000938        NA
```

A common summary visualization is called a Volcano plot.

```
plot(res$log2FoldChange, -log(res$padj),
     xlab="Log2 Fold-Change",
     ylab="-log P-value")
abline(v=c(2,-2), col="red")
abline(h=-log(0.05), col="blue")
```




```
mycols<-rep("gray", nrow(res))
mycols
```

```
  [1] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
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 [781] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
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[12131] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
[12141] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
[12151] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
[12161] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
[12171] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
[12181] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
[12191] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
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[23331] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
[23341] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
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[28431] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
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[30051] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
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[32291] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
[32301] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
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[32361] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
[32371] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
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[34531] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
[34541] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
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[36871] "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray" "gray"
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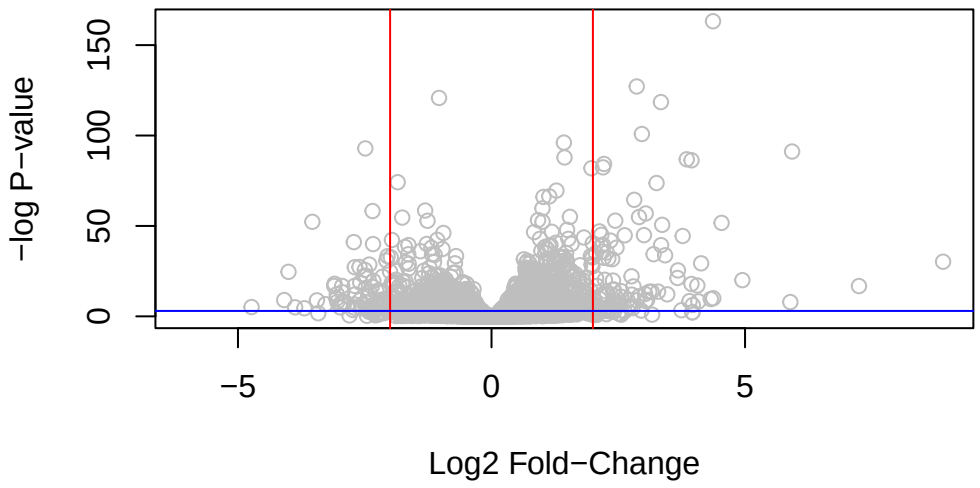


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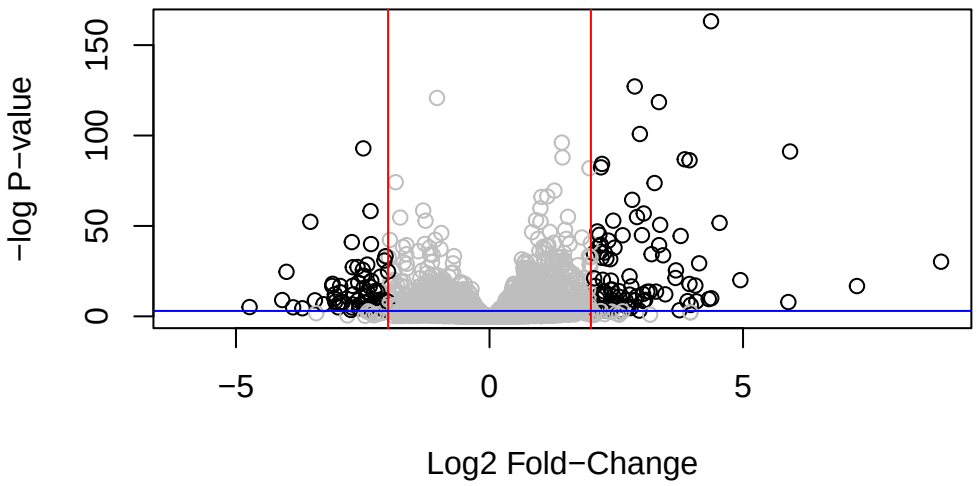

#save our results to data

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#Adding annotation data

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Q11. Run the mapIds() function two more times to add the Entrez ID and UniProt accession and GENENAME as new columns called res$entrez, res$uniprot and res$genename.

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head(res)
```

```
log2 fold change (MLE): dex treated vs control
Wald test p-value: dex treated vs control
DataFrame with 6 rows and 10 columns
                  baseMean log2FoldChange     lfcSE      stat    pvalue
                 <numeric>      <numeric> <numeric> <numeric> <numeric>
ENSG00000000003 747.194195     -0.3507030  0.168246 -2.084470 0.0371175
ENSG00000000005   0.000000             NA        NA        NA        NA
ENSG00000000419 520.134160      0.2061078  0.101059  2.039475 0.0414026
ENSG00000000457 322.664844      0.0245269  0.145145  0.168982 0.8658106
ENSG00000000460  87.682625     -0.1471420  0.257007 -0.572521 0.5669691
ENSG00000000938   0.319167     -1.7322890  3.493601 -0.495846 0.6200029
                     padj      symbol      entrez     uniport
                <numeric> <character> <character> <character>
ENSG00000000003  0.163035      TSPAN6        7105  A0A024RCI0
ENSG00000000005        NA        TNMD       64102      Q9H2S6
ENSG00000000419  0.176032        DPM1        8813      O60762
ENSG00000000457  0.961694       SCYL3       57147      Q8IZE3
```

```
ENSG00000000460  0.815849       FIRRM       55732  A0A024R922
ENSG00000000938        NA         FGR        2268      P09769
                            genename
                           <character>
ENSG00000000003          tetraspanin 6
ENSG00000000005            tenomodulin
ENSG00000000419 dolichyl-phosphate m..
ENSG00000000457 SCY1 like pseudokina..
ENSG00000000460 FIGNL1 interacting r..
ENSG00000000938 FGR proto-oncogene, ..
```

##Pathway Analysis

```
library(pathview)
```

```
##############################################################################
Pathview is an open source software package distributed under GNU General
Public License version 3 (GPLv3). Details of GPLv3 is available at
http://www.gnu.org/licenses/gpl-3.0.html. Particullary, users are required to
formally cite the original Pathview paper (not just mention it) in publications
or products. For details, do citation("pathview") within R.

The pathview downloads and uses KEGG data. Non-academic uses may require a KEGG
license agreement (details at http://www.kegg.jp/kegg/legal.html).
##############################################################################
```

```
library(gage)
```

```
library(gageData)

data(kegg.sets.hs)

# Examine the first 2 pathways in this kegg set for humans
head(kegg.sets.hs, 2)
```

```
$`hsa00232 Caffeine metabolism`
[1] "10"   "1544" "1548" "1549" "1553" "7498" "9"
```

```
$`hsa00983 Drug metabolism - other enzymes`
 [1] "10"     "1066"   "10720"  "10941"  "151531" "1548"   "1549"   "1551"
 [9] "1553"   "1576"   "1577"   "1806"   "1807"   "1890"   "221223" "2990"
[17] "3251"   "3614"   "3615"   "3704"   "51733"  "54490"  "54575"  "54576"
[25] "54577"  "54578"  "54579"  "54600"  "54657"  "54658"  "54659"  "54963"
[33] "574537" "64816"  "7083"   "7084"   "7172"   "7363"   "7364"   "7365"
[41] "7366"   "7367"   "7371"   "7372"   "7378"   "7498"   "79799"  "83549"
[49] "8824"   "8833"   "9"      "978"
```

```
foldchanges = res$log2FoldChange
names(foldchanges) = res$entrez
head(foldchanges)
```

```
      7105       64102        8813       57147       55732        2268
-0.35070302          NA  0.20610777  0.02452695 -0.14714205 -1.73228897
```

```
keggres = gage(foldchanges, gsets=kegg.sets.hs)
```

```
attributes(keggres)
```

```
$names
[1] "greater" "less"    "stats"
```

```
head(keggres$less, 3)
```

```
                                      p.geomean stat.mean        p.val
hsa05332 Graft-versus-host disease 0.0004250461 -3.473346 0.0004250461
hsa04940 Type I diabetes mellitus  0.0017820293 -3.002352 0.0017820293
hsa05310 Asthma                    0.0020045888 -3.009050 0.0020045888
                                        q.val set.size         exp1
hsa05332 Graft-versus-host disease 0.09053483       40 0.0004250461
hsa04940 Type I diabetes mellitus  0.14232581       42 0.0017820293
hsa05310 Asthma                    0.14232581       29 0.0020045888
```

lets have a look at one of these pathways

```
  pathview(gene.data=foldchanges, pathway.id="hsa05310")
```

```
'select()' returned 1:1 mapping between keys and columns
```

```
Info: Working in directory /Users/kalodiahtoma/Desktop/phd 2023/bggn 213/class 13
```

```
Info: Writing image file hsa05310.pathview.png
```

```
  pathview(gene.data=foldchanges, pathway.id="hsa05332")
```

```
'select()' returned 1:1 mapping between keys and columns
```

```
Info: Working in directory /Users/kalodiahtoma/Desktop/phd 2023/bggn 213/class 13
```

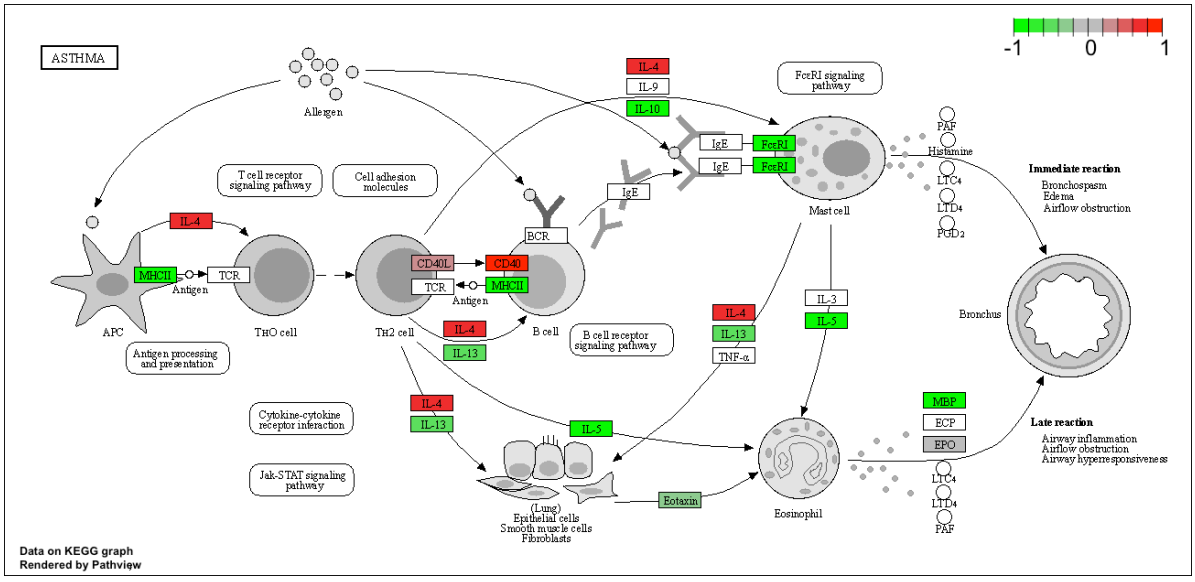
```
Info: Writing image file hsa05332.pathview.png
```

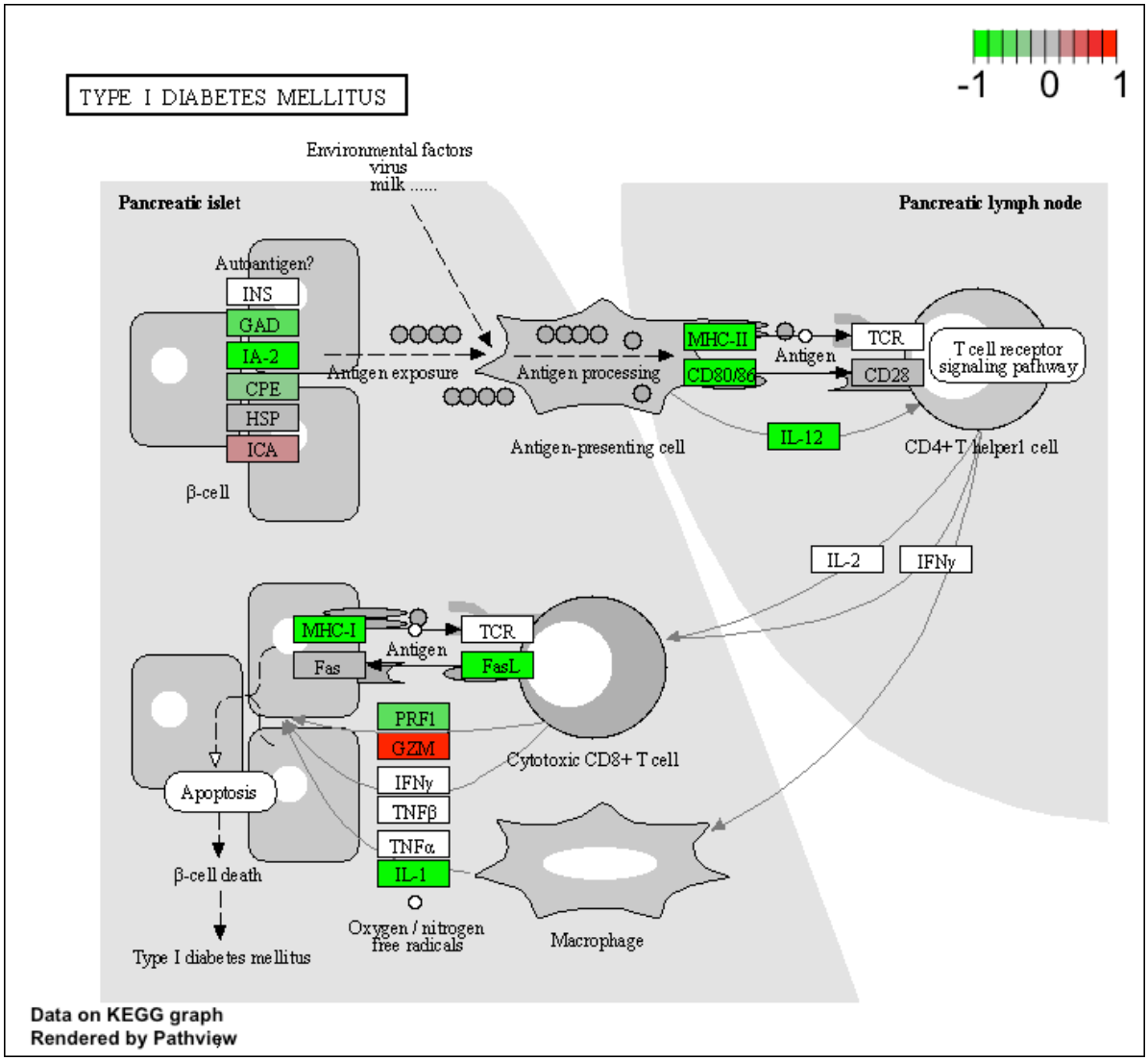
```
  pathview(gene.data=foldchanges, pathway.id="hsa04940")
```

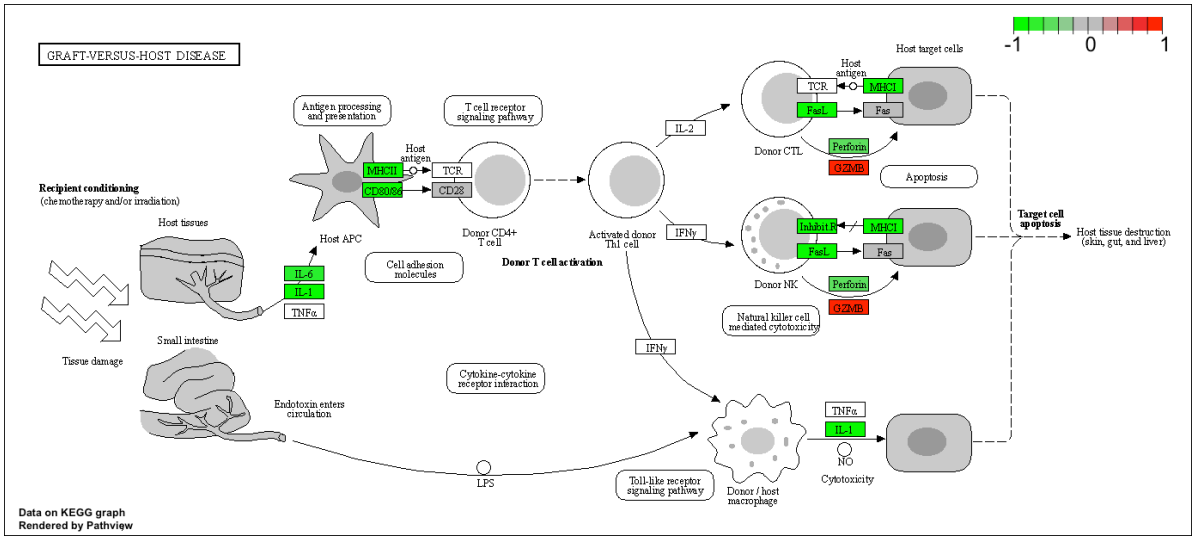
```
'select()' returned 1:1 mapping between keys and columns
```

```
Info: Working in directory /Users/kalodiahtoma/Desktop/phd 2023/bggn 213/class 13
```

```
Info: Writing image file hsa04940.pathview.png
```




TYPE I DIABETES MELLITUS
-1 0 1
Environmental factors
virus
milk .....
Pancreatic islet
Pancreatic lymph node
Autoantigen?
INS
GAD
IA-2
CPE
HSP
ICA
β-cell
Antigen exposure
Antigen processing
MHC-II
CD80/86
Antigen
TCR
CD28
T cell receptor signaling pathway
Antigen-presenting cell
IL-12
CD4+ T helper1 cell
IL-2
IFNγ
MHC-I
Antigen
TCR
Fas
FasL
PRF1
GZM
IFNγ
TNFβ
TNFα
IL-1
Cytotoxic CD8+ T cell
Apoptosis
β-cell death
Type I diabetes mellitus
Oxygen / nitrogen
free radicals
Macrophage
Data on KEGG graph
Rendered by Pathview


GRAFT-VERSUS-HOST DISEASE
-1
0
1
Host target cells
Host antigen
TCR
MHCI
FasL
Fas
Donor CTL
Perforin
GZMB
Apoptosis
Antigen processing and presentation
T cell receptor signaling pathway
IL-2
Host antigen
MHCII
CD80/86
TCR
CD28
Recipient conditioning
(chemotherapy and/or irradiation)
Host tissues
Host APC
Donor CD4+ T cell
Activated donor Th1 cell
IFNγ
Cell adhesion molecules
Donor T cell activation
Target cell apoptosis
Host tissue destruction (skin, gut, and liver)
InhibitR
MHCI
FasL
Fas
Donor NK
Perforin
GZMB
IL-6
IL-1
TNFα
Natural killer cell mediated cytotoxicity
Small intestine
Tissue damage
IFNγ
Cytokine-cytokine receptor interaction
Endotoxin enters circulation
TNFα
IL-1
NO
Cytotoxicity
LPS
Toll-like receptor signaling pathway
Donor / host macrophage
Data on KEGG graph
Rendered by Pathview