Imágenes obtenidas Práctica 1

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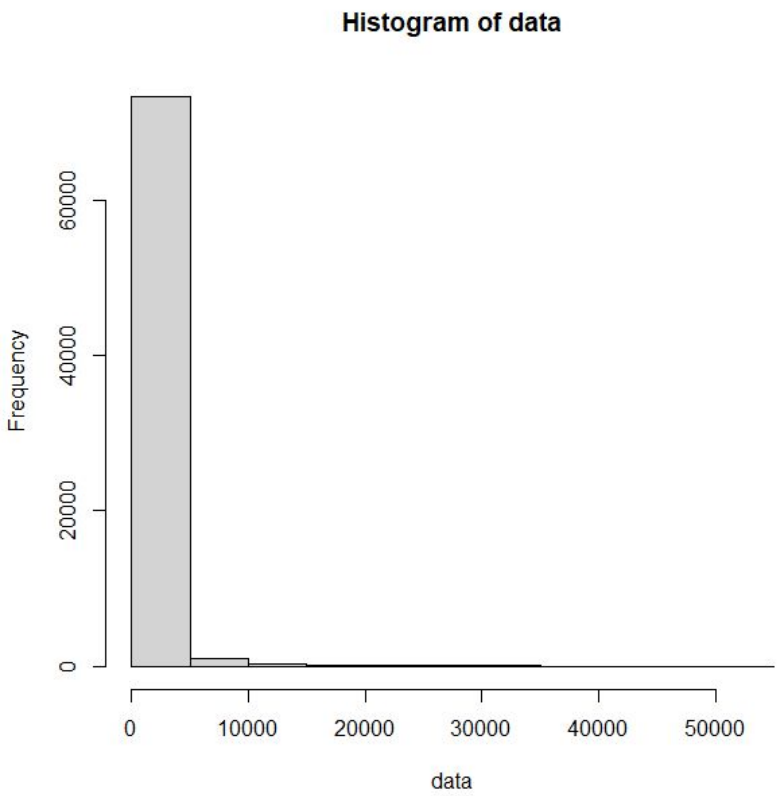
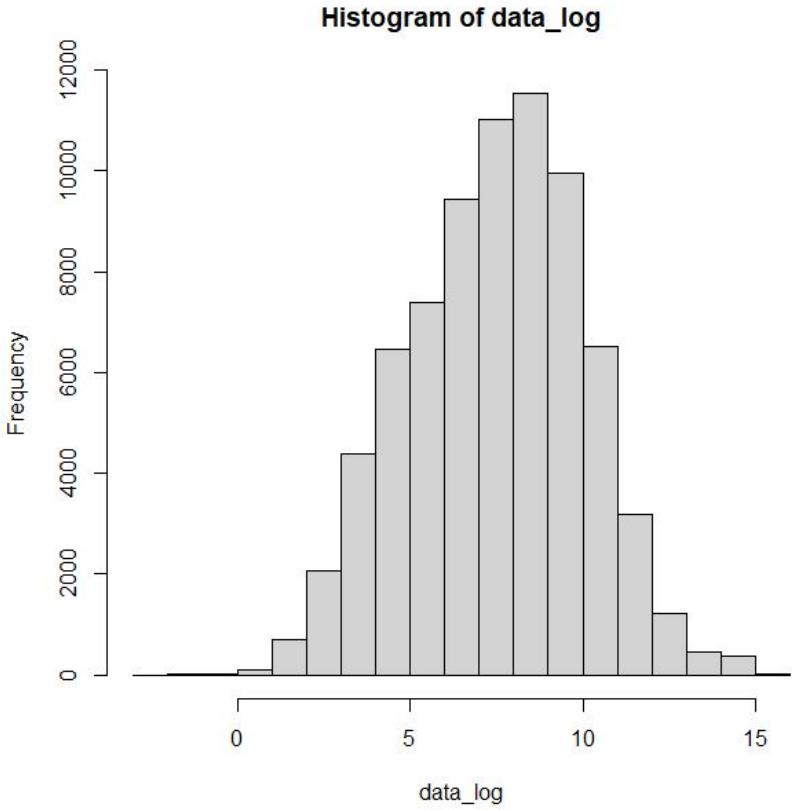
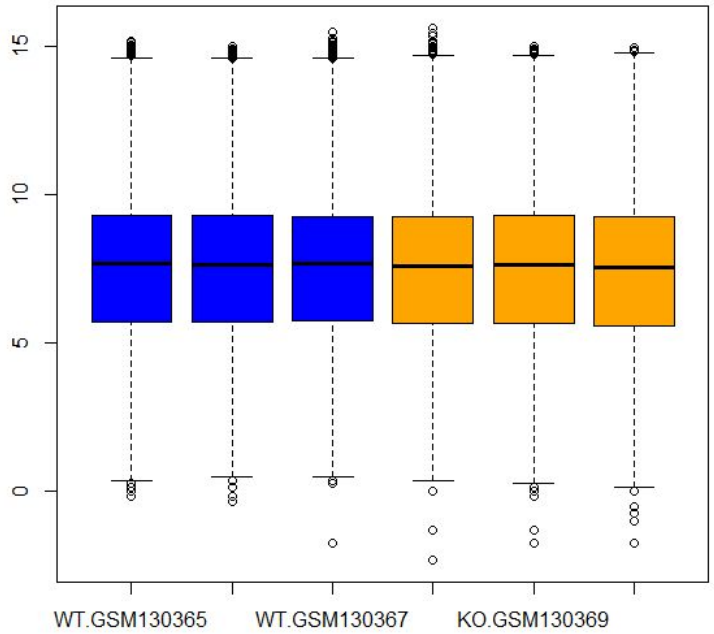
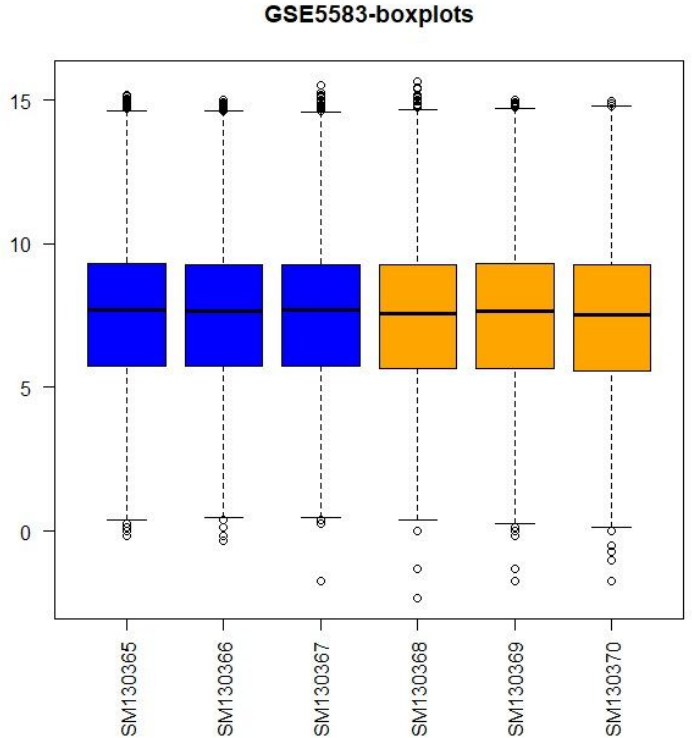



```
hist(data)
```

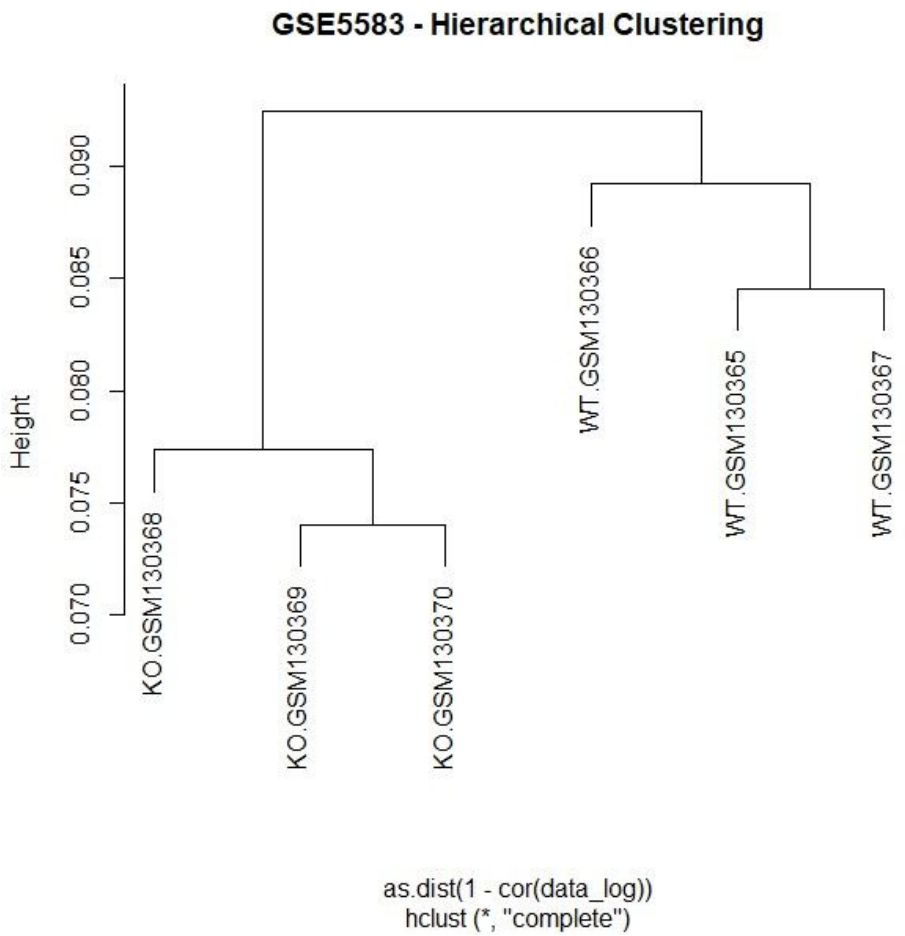



```
data_log=log2(data)
hist(data_log)
```

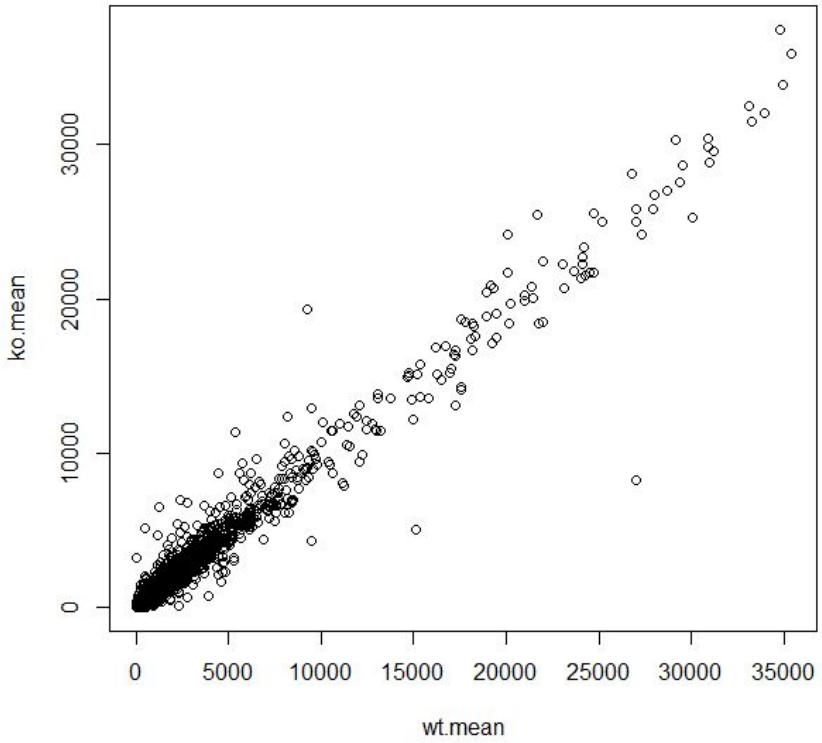




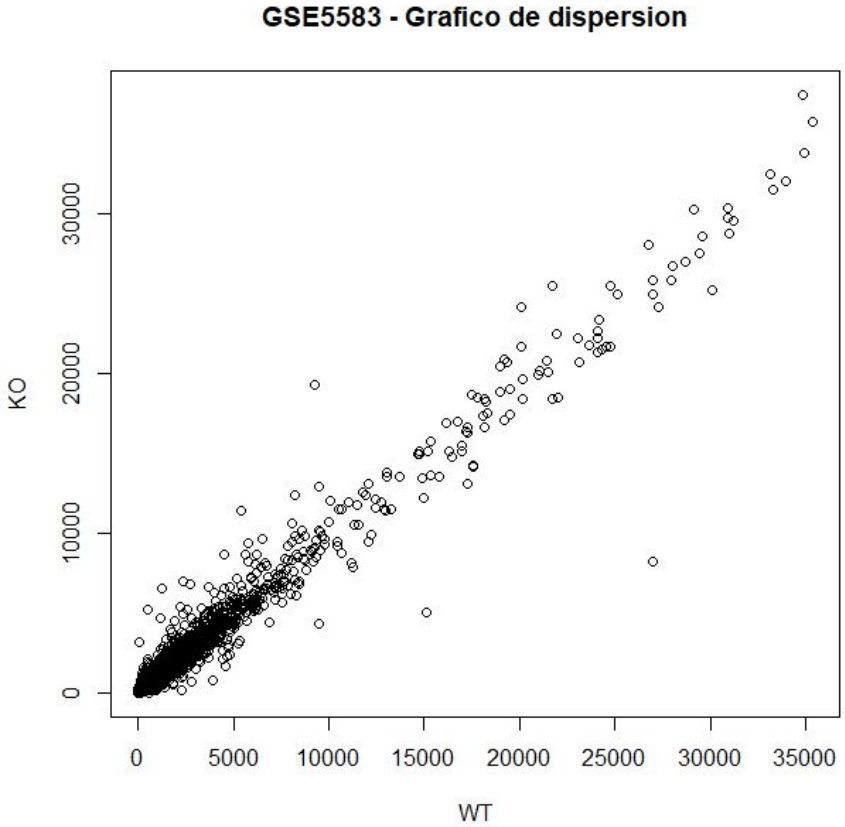

```
boxplot(data_log,
col=c("blue","blue","blue","orange","orange","orange")
, main="GSE5583-boxplots",las=2)
```



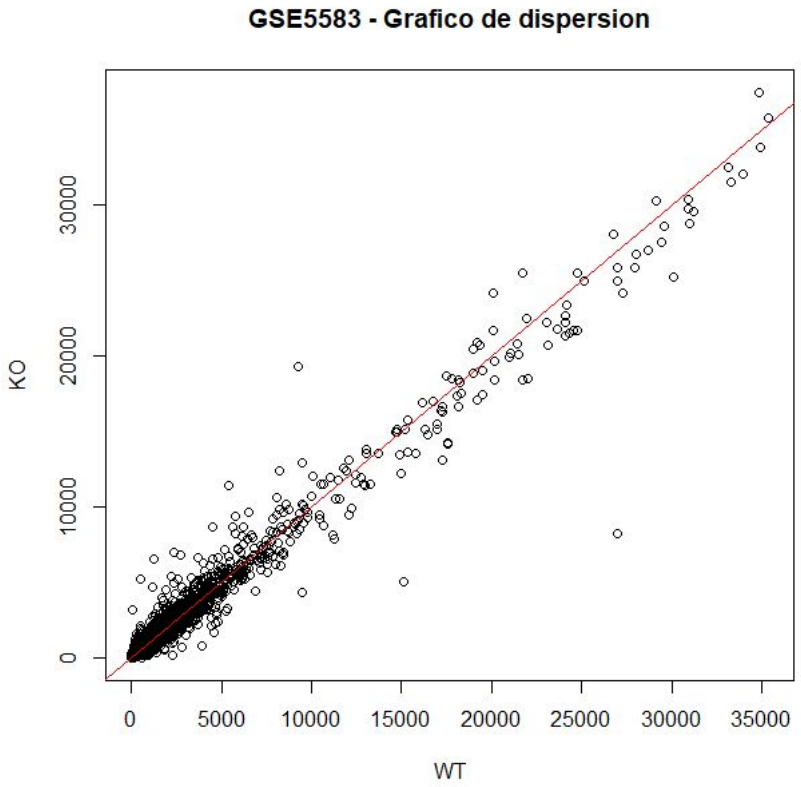

```
hc =
hclust(as.dist(1-cor(data_log)))
plot(hc, main="GSE5583 -
Hierarchical Clustering")
```



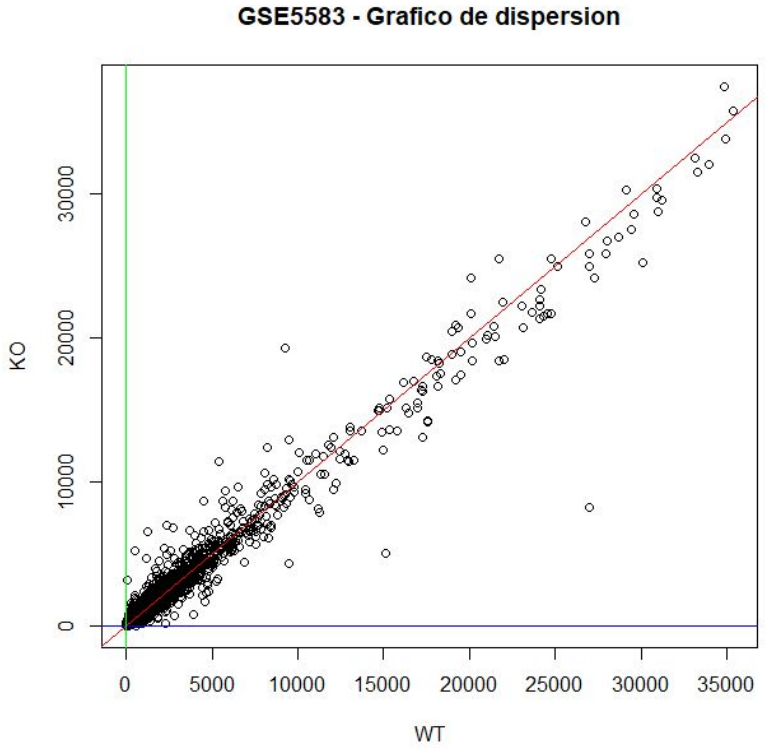

```
plot(ko.mean ~ wt.mean)
```



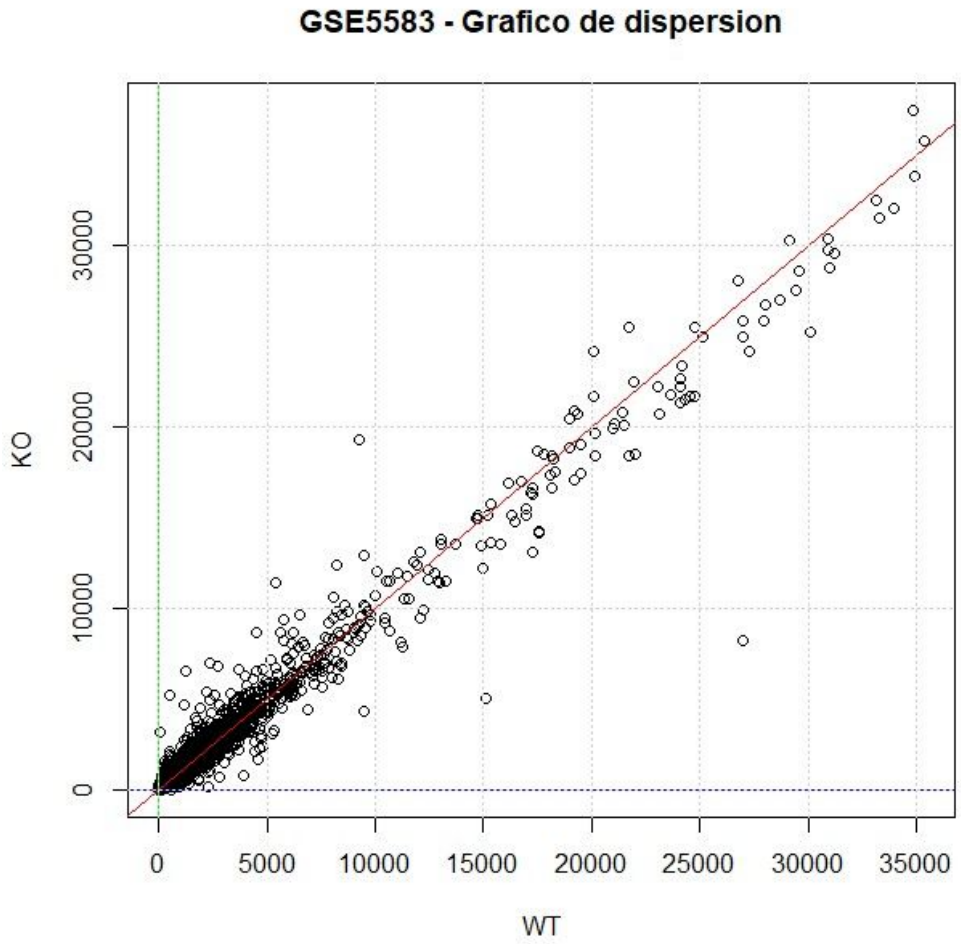

```
plot(ko.mean ~ wt.mean,xlab = "WT",
ylab = "KO", main="GSE5583 -
Grafico de dispersion")
```



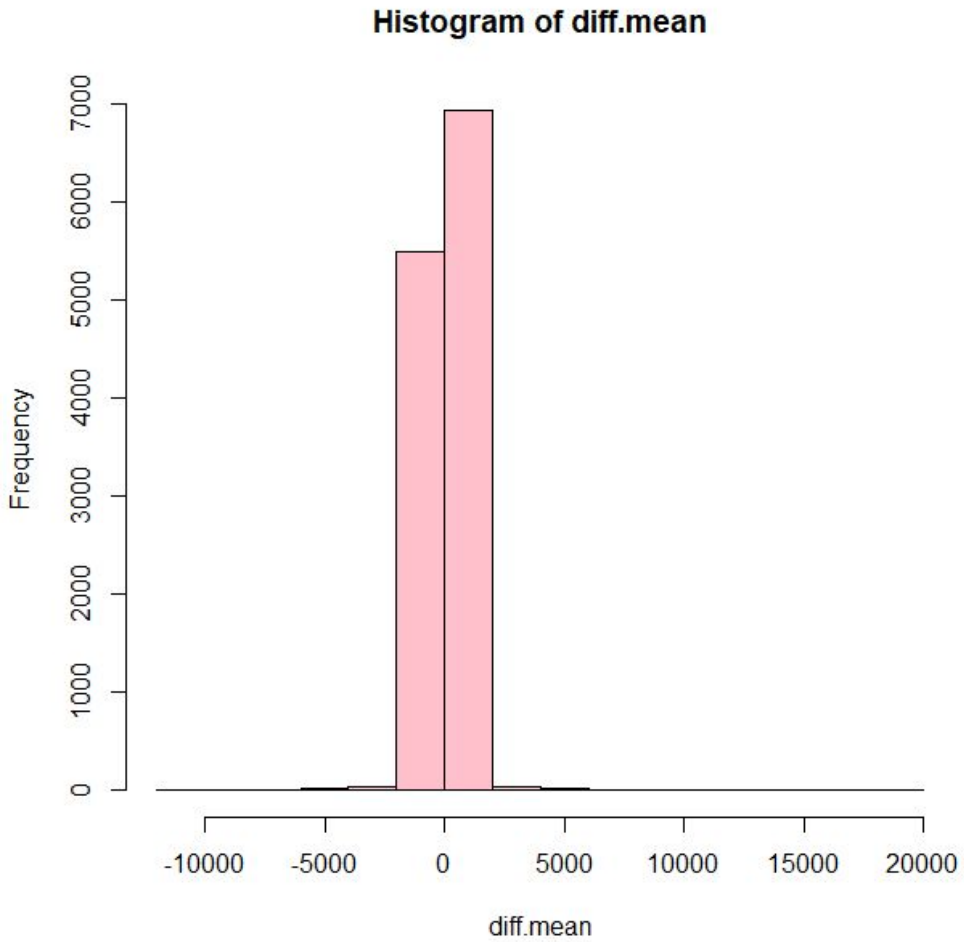

```
abline(0,1,col="red")
```



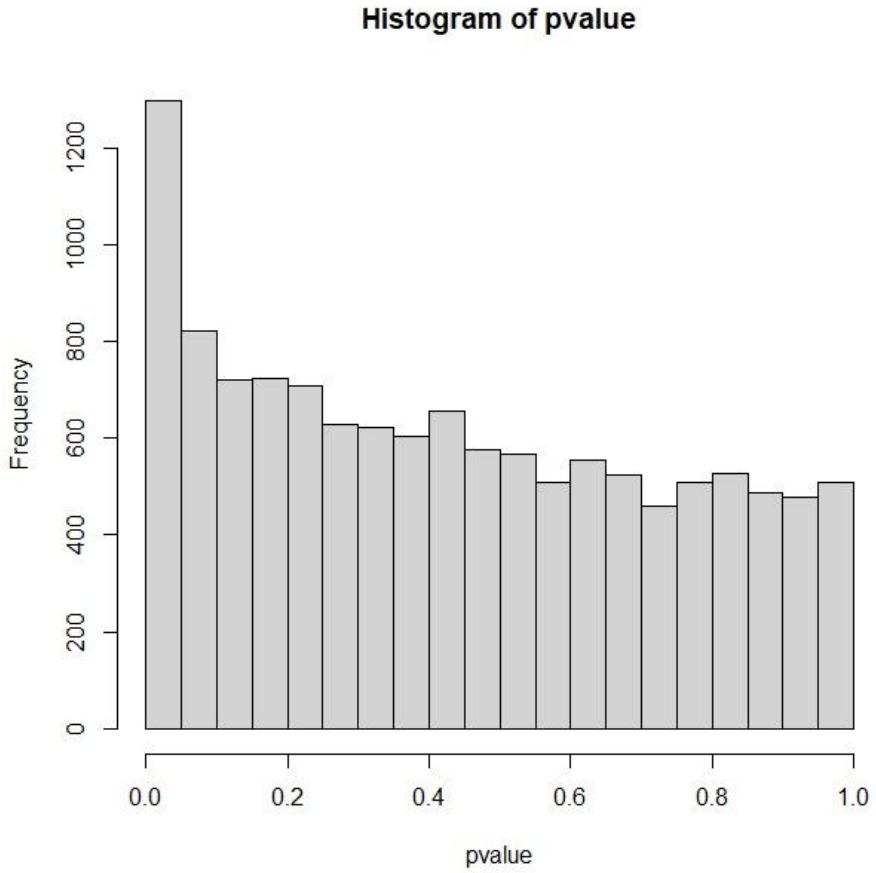

```
abline(h=2,col="blue")
abline(v=5,col="green")
```


GSE5583 - Grafico de dispersion
KO
WT
0
10000
20000
30000
0
5000
10000
15000
20000
25000
30000
35000

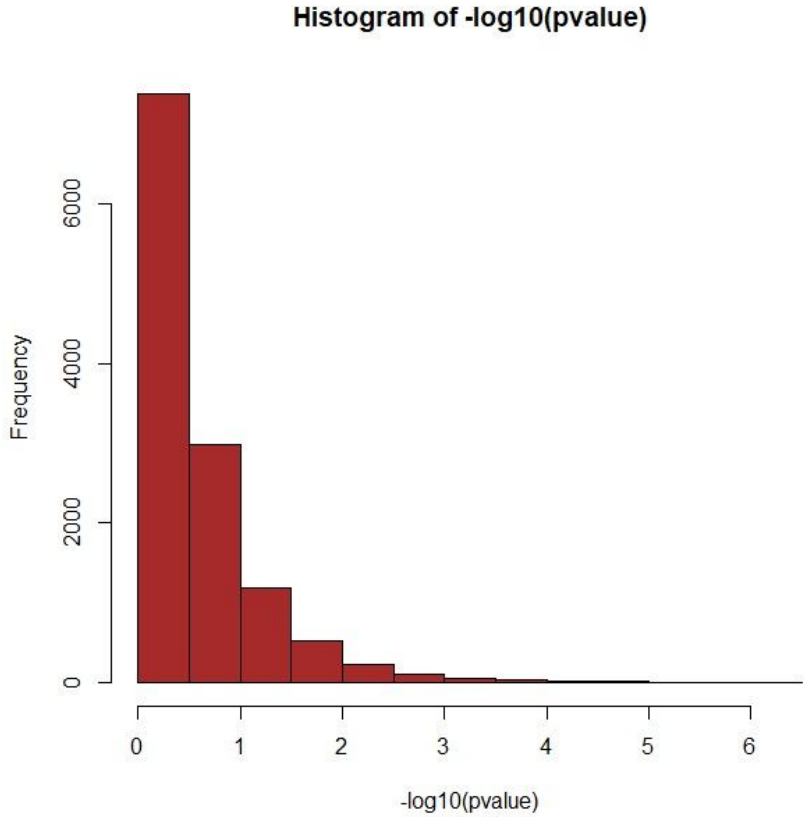
```
grid()
```



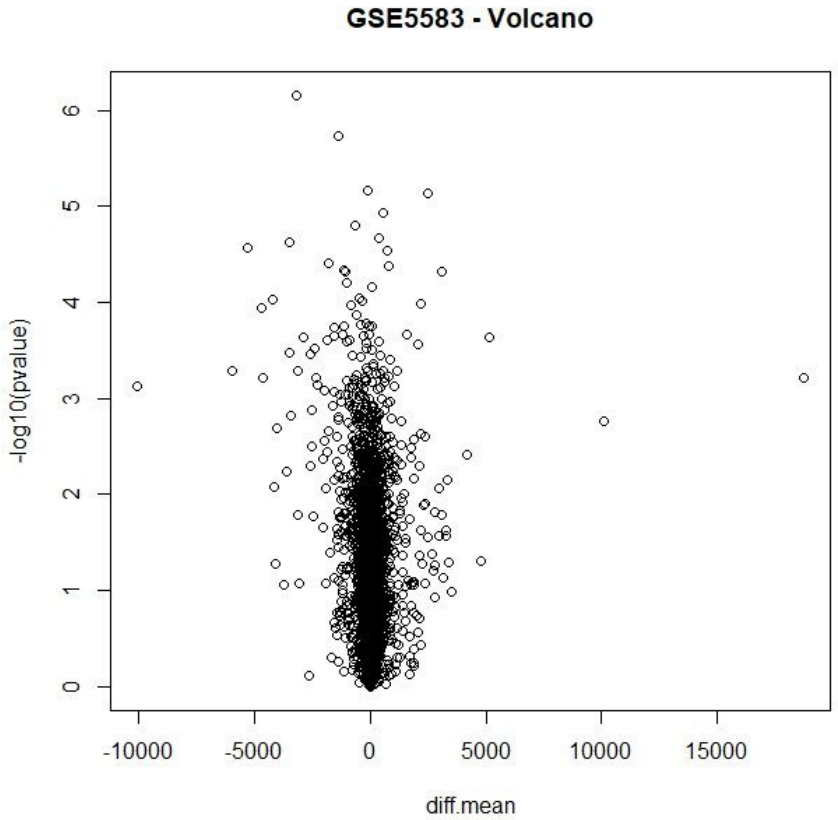

```
hist(diff.mean,col="pink")
```



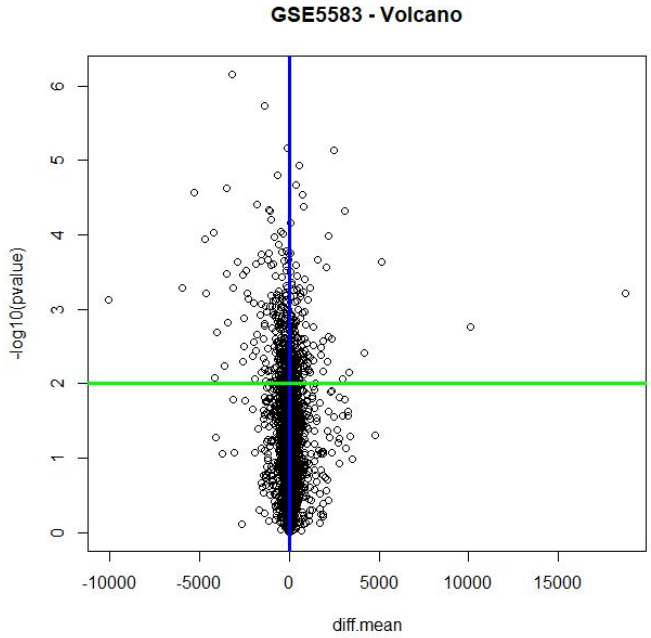

```
hist(pvalue)
```



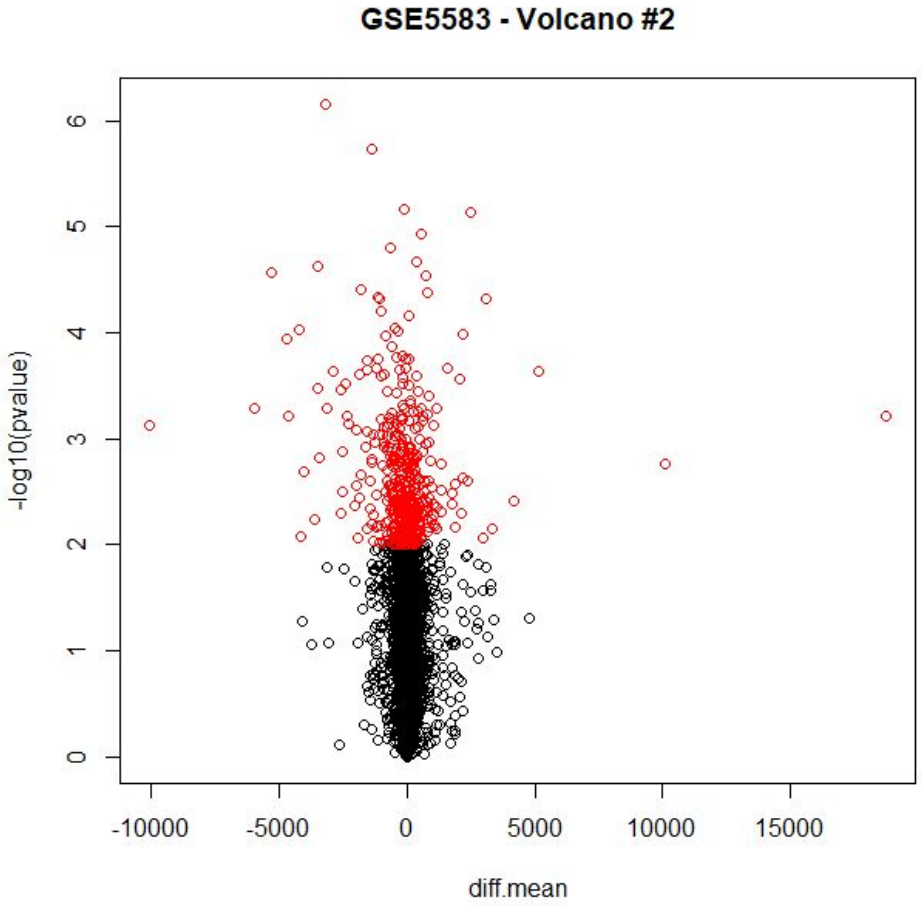

```
hist(-log10(pvalue), col="brown")
```



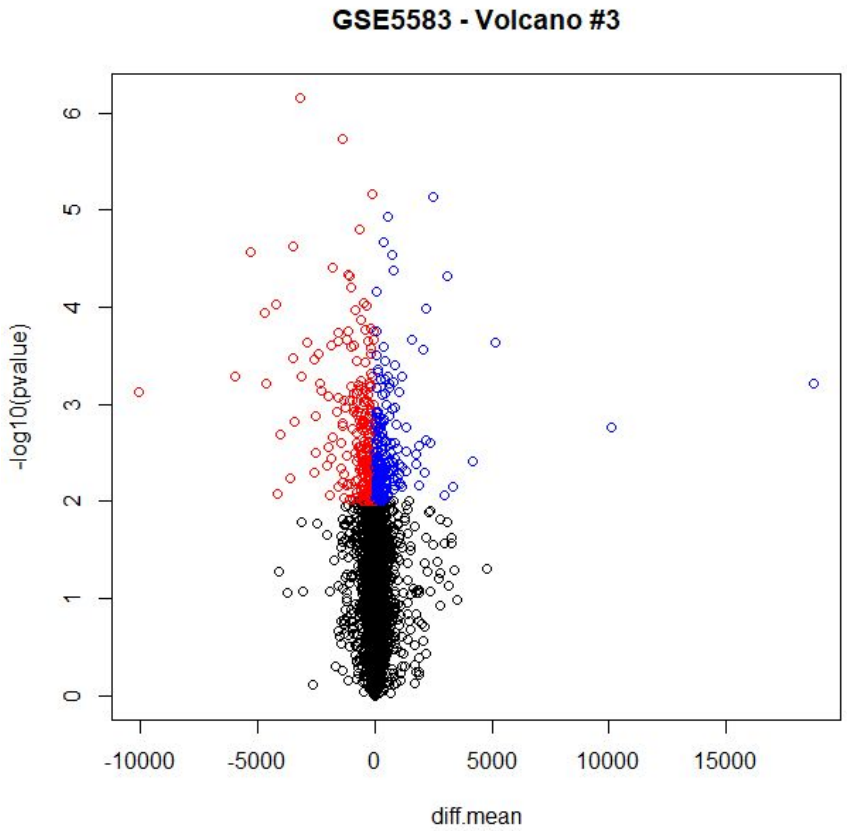

```
plot(diff.mean, -log10(pvalue), main
= "GSE5583 - Volcano")
```



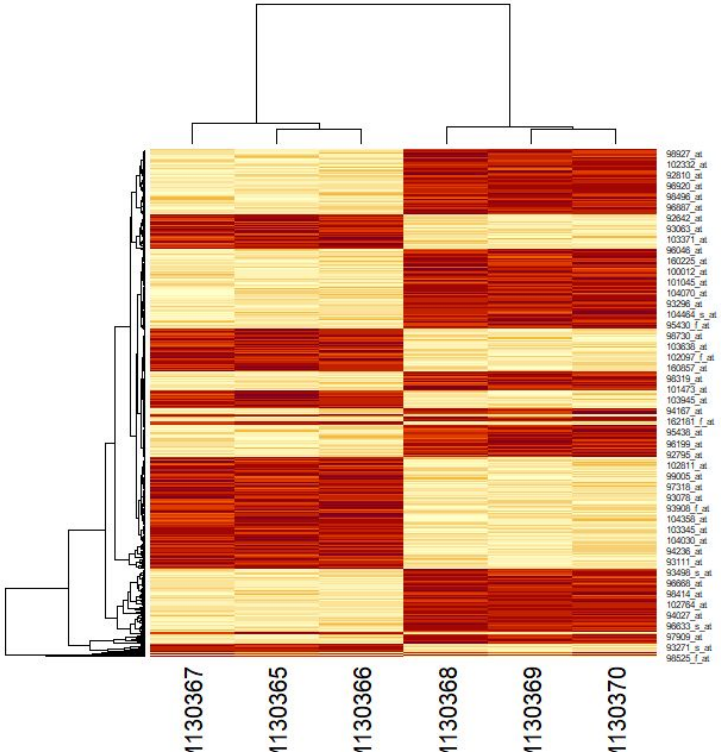

```
diff.mean_cutoff = 2
pvalue_cutoff = 0.01
abline(v = diff.mean_cutoff, col = "blue",
lwd = 3)
#abline(v = -diff.mean_cutoff, col = "red",
lwd = 3)
abline(h = -log10(pvalue_cutoff), col =
"green", lwd = 3)
```

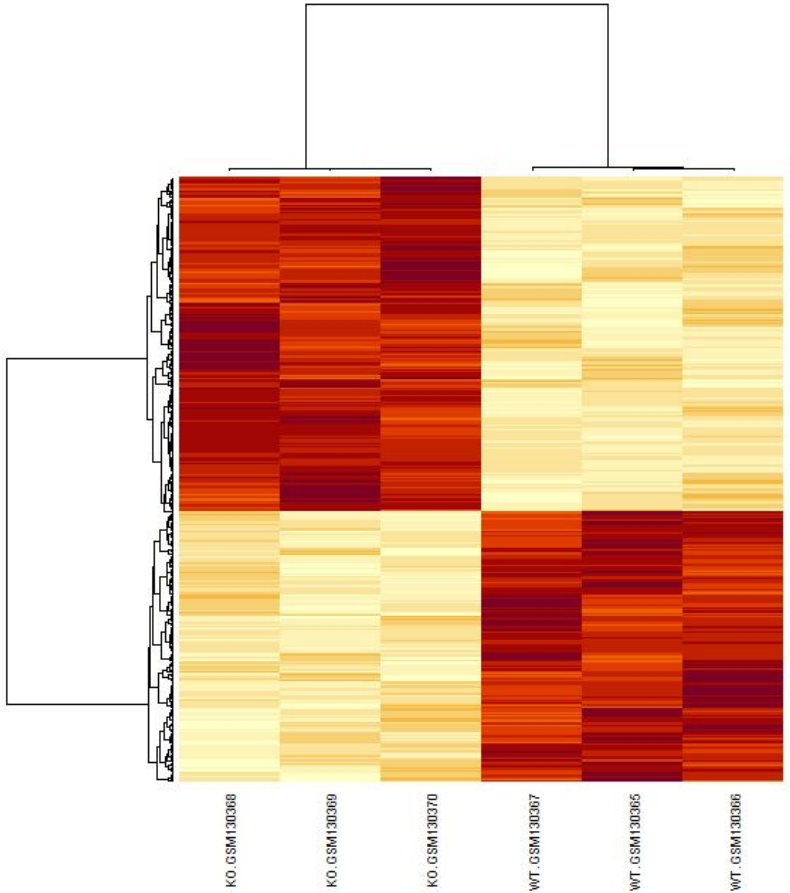



```
plot(diff.mean,
-log10(pvalue), main =
"GSE5583 - Volcano #2")
points
(diff.mean[filter_combined],
-log10(pvalue[filter_combined]
),col = "red")
```




```
plot(diff.mean, -log10(pvalue), main
= "GSE5583 - Volcano #3")
points (diff.mean[filter_combined &
diff.mean < 0],
    -log10(pvalue[filter_combined &
diff.mean < 0]), col = "red")
points (diff.mean[filter_combined &
diff.mean > 0],
    -log10(pvalue[filter_combined &
diff.mean > 0]), col = "blue")
```






```
rowv = as.dendrogram(hclust(as.dist(1-cor(t(filtered)))))
colv = as.dendrogram(hclust(as.dist(1-cor(filtered))))
heatmap(filtered, Rowv=rowv, Colv=colv,
cexCol=0.7,labRow=FALSE)

heatmap(filtered)
```