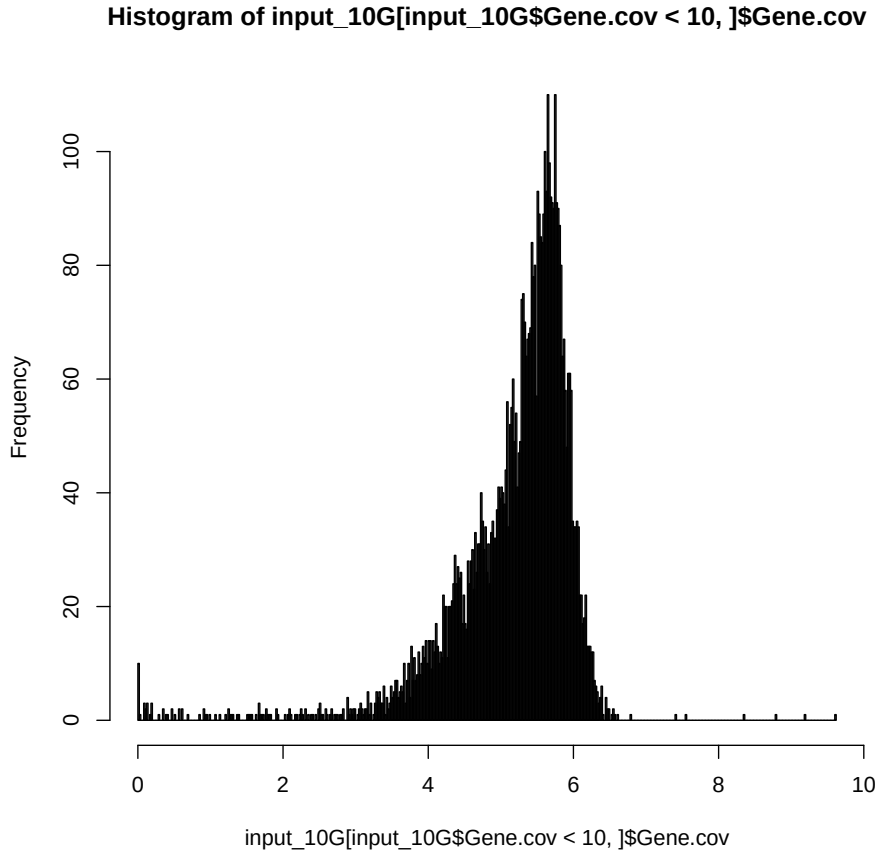
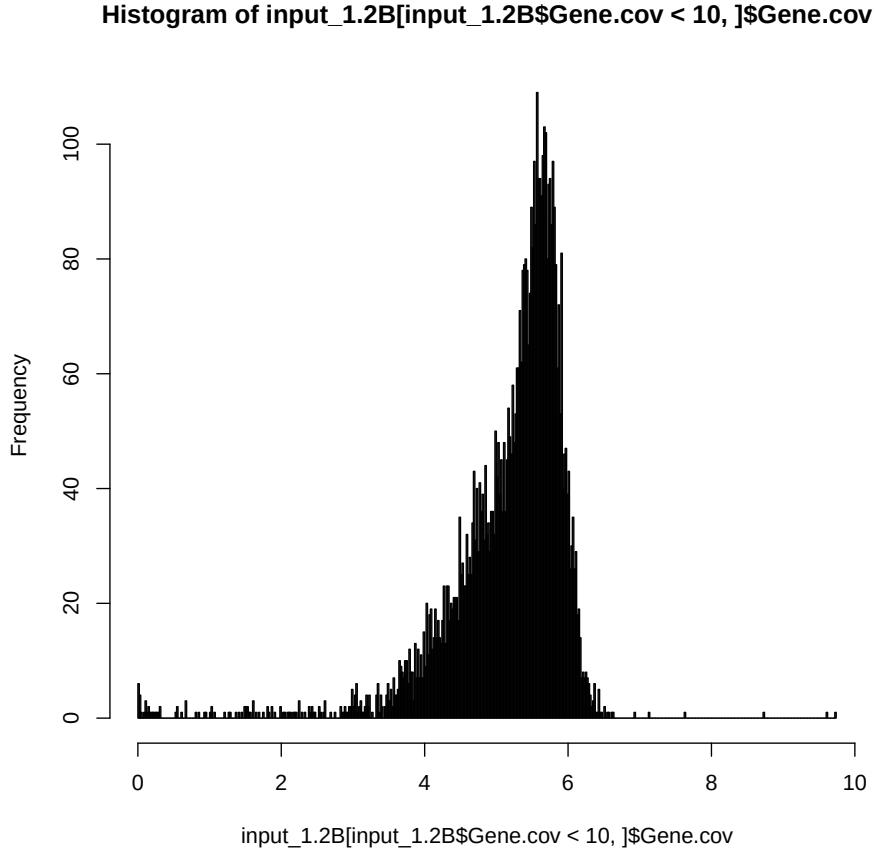
```r
input_10G <- read.csv("/home/lucas/ISGlobal/Chip_Seq/DATA/Aligns/q5/10G_in_cov.csv",  sep ='
input_1.2B <- read.csv("/home/lucas/ISGlobal/Chip_Seq/DATA/Aligns/q5/1.2B_in_cov.csv",  sep

summary(input_10G$Gene.cov)

##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   0.000   4.868   5.415   5.408   5.725 163.963

summary(input_1.2B$Gene.cov)

##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   0.000   4.845   5.406   5.370   5.711 136.744

hist(input_10G[input_10G$Gene.cov < 10,]$Gene.cov, breaks = 500)
```



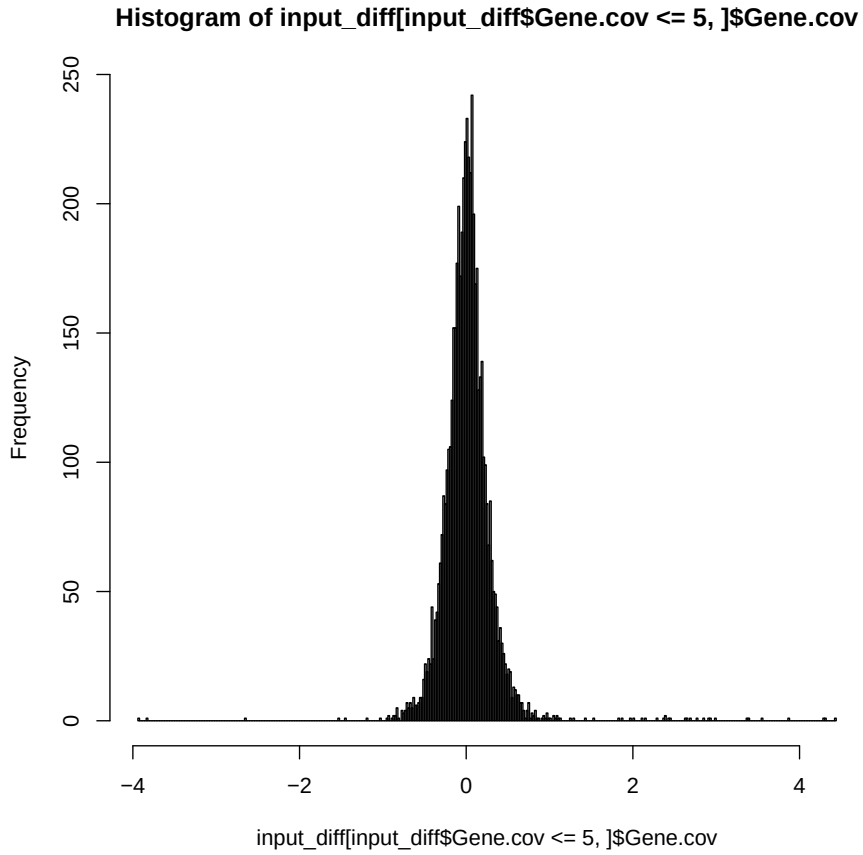
```r
hist(input_1.2B[input_1.2B$Gene.cov < 10,]$Gene.cov, breaks = 500)
```




```r
del_10G <- input_10G[input_10G$Gene.cov < 1,]$Gene
del_1.2B <- input_1.2B[input_1.2B$Gene.cov < 1,]$Gene

setdiff(del_1.2B, del_10G)

## character(0)

setdiff(del_10G, del_1.2B)

## [1] "PF3D7_0101200" "PF3D7_0300300" "PF3D7_1100100" "PF3D7_1335300"

input_diff <- input_10G[,2:4] - input_1.2B[,2:4]
input_diff["gene"] <- input_10G$Gene

summary(input_diff$Gene.cov)
```

```
##      Min.   1st Qu.    Median      Mean   3rd Qu.      Max.
## -3.928537 -0.130721  0.009352  0.037974  0.145047 27.356335
```

```
hist(input_diff[input_diff$Gene.cov <= 5,]$Gene.cov, breaks = 500)
```




```
input_diff[abs(input_diff$Gene.cov) > 1.5,]
```

```
##       Gene.cov     X5.cov     X3.cov           gene
## 622   1.877972  0.2158246  0.4447963  PF3D7_0400600
## 817  -3.831186 -3.2745906 -4.5699765  PF3D7_0421200
## 818  -2.652479 -0.5715629 -4.5699765  PF3D7_0421300
## 2913  2.766700  1.0067386  3.2878497  PF3D7_1040400
## 2914  3.383116  4.5244806  4.9862657  PF3D7_1040500
## 2915  4.291627  2.5764032  3.1897343  PF3D7_1040600
## 2916  4.422475  3.7654835  3.6358880  PF3D7_1040700
## 2923 -3.928537 -3.4555597 -2.8503676  PF3D7_1100100
```

```
## 2924 -1.536825  0.2497792 -2.9827428  PF3D7_1100200
## 5426  2.394479  4.8069478 -0.4805046 PF3D7_API01300
## 5428  5.324187  2.4977887  4.6681096 PF3D7_API01500
## 5429  2.002803  4.6681096  6.3430268 PF3D7_API01600
## 5430  2.691787  6.3430268  8.7615148 PF3D7_API01700
## 5431  6.544474  8.7615148  4.4001629 PF3D7_API01800
## 5432  2.901540  4.4001629  1.8708459 PF3D7_API01900
## 5433  3.548543  4.7117022  2.3840098 PF3D7_API02000
## 5435  1.966285  2.9751021  2.3694832 PF3D7_API02200
## 5436  2.435243  1.6123764 -0.5266608 PF3D7_API02300
## 5437  2.289039 -0.5266608  3.0183883 PF3D7_API02400
## 5438  2.365339  2.3404370  3.1433365 PF3D7_API02500
## 5439  1.529386  2.2317655  3.8154069 PF3D7_API02600
## 5440  4.314276  3.8154069  4.7678951 PF3D7_API02700
## 5441  2.937672  4.7678951  4.5468132 PF3D7_API02800
## 5442  5.214791  4.5468132  4.3748524 PF3D7_API02900
## 5443  2.145038  4.3748524  7.9233844 PF3D7_API03000
## 5444  2.644585  7.9233844  2.3223904 PF3D7_API03500
## 5445  2.986455  4.3990517  3.8136091 PF3D7_API03600
## 5446  3.872340  3.8136091  3.1646520 PF3D7_API03800
## 5447  2.117541  3.1646520  3.1365703 PF3D7_API04000
## 5448  2.397191  1.9960944  2.9354015 PF3D7_API04100
## 5449  2.453248  1.6545512  1.9960944 PF3D7_API04200
## 5450  2.840735  3.4528211  1.6545512 PF3D7_API04300
## 5451  2.628537  1.0570375  3.4528211 PF3D7_API04400
## 5452  1.830456  2.4789126  1.0570375 PF3D7_API04500
## 5454  3.373866  0.6731373  0.8895123 PF3D7_API04700
## 5455 27.219194 25.3769633 22.7577430     mal_mito_1
## 5456 27.356335 25.3769633 29.8731279     mal_mito_2
## 5457 24.444277 29.8731279 25.9053567     mal_mito_3

x <- input_cov[input_cov$Gene %in% dif_10G_cov$Gene,1:2]

## Error in eval(expr, envir, enclos):  object 'input_cov' not found

write.csv(x, file = "/home/lucas/ISGlobal/input_cov.csv", quote = FALSE)

## Error in is.data.frame(x):  object 'x' not found
```