VCFstat

Michael Hall

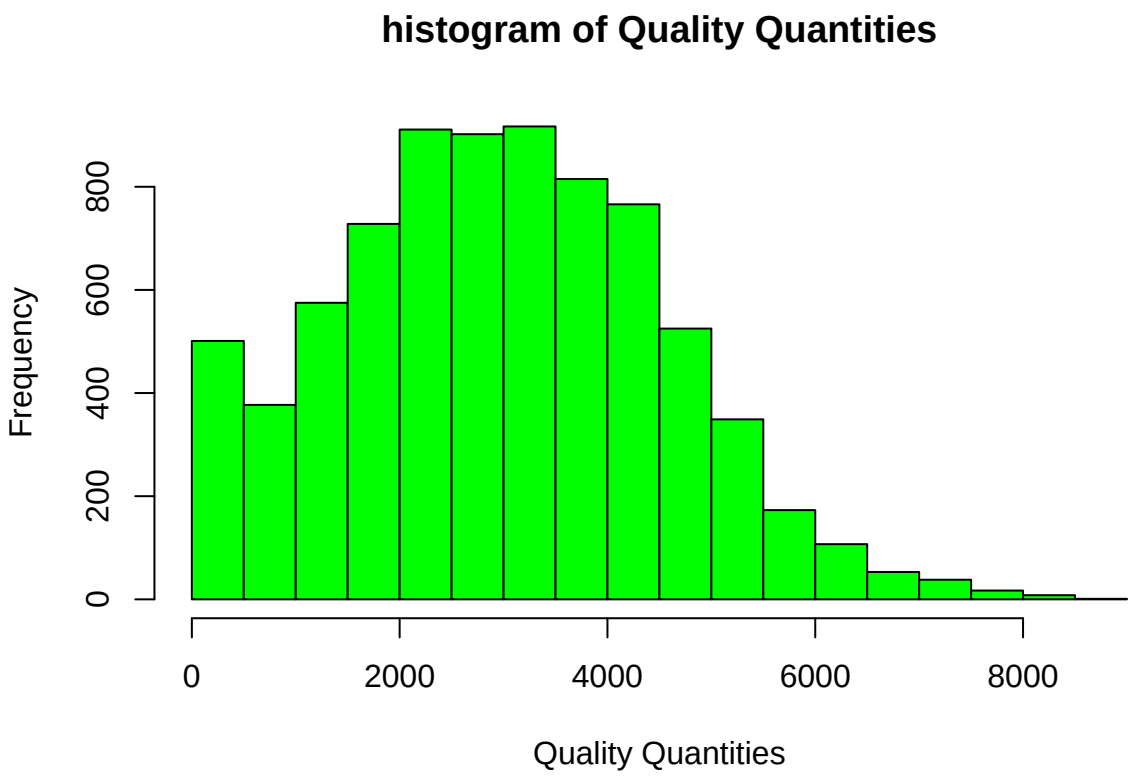
4/14/2022

```
devtools::install_github("PBGLMichaelHall/VCFStat",force = TRUE)

library(VCFstat)
library(vcfR)
library(data.table)
library(QTLseqr)
library(ggplot2)
```

```
setwd("/home/michael/Desktop/QTLseqr/extdata/")
chromlist <- c("Chr01","Chr02","Chr03","Chr04","Chr05","Chr06","Chr07","Chr08","Chr09","Chr10")


VCFstat::ChromQual(vcf = "freebayes_D2.filtered.vcf.gz", chromlist = chromlist,windowSize = 1e+05, binw
```



```
VCFstat::ChromDP(vcf = "freebayes_D2.filtered.vcf.gz", chromlist = chromlist,windowSize = 1e+05, binwid
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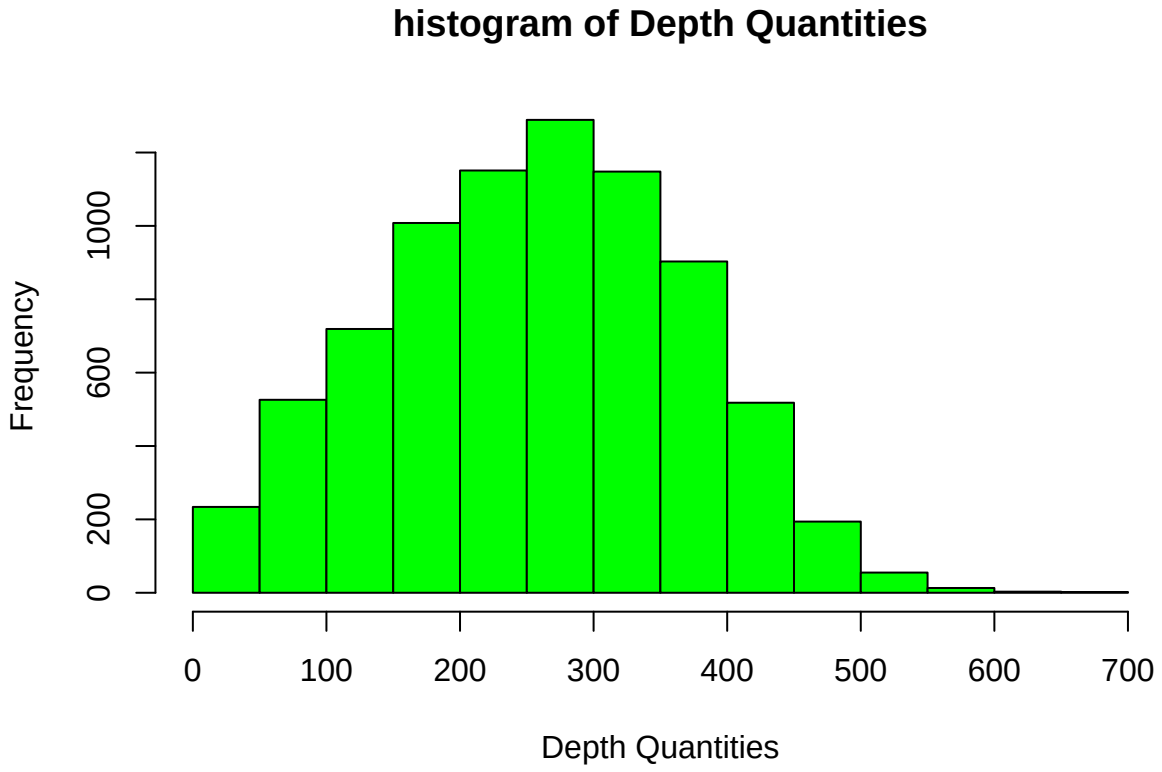
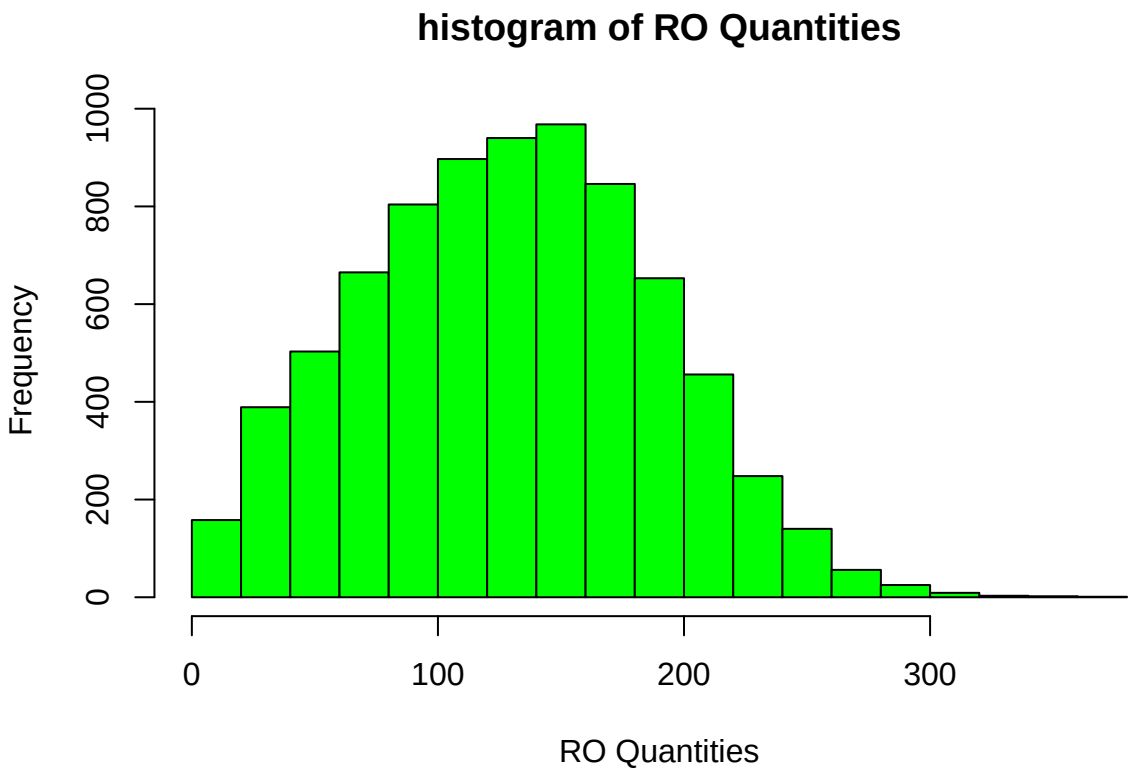
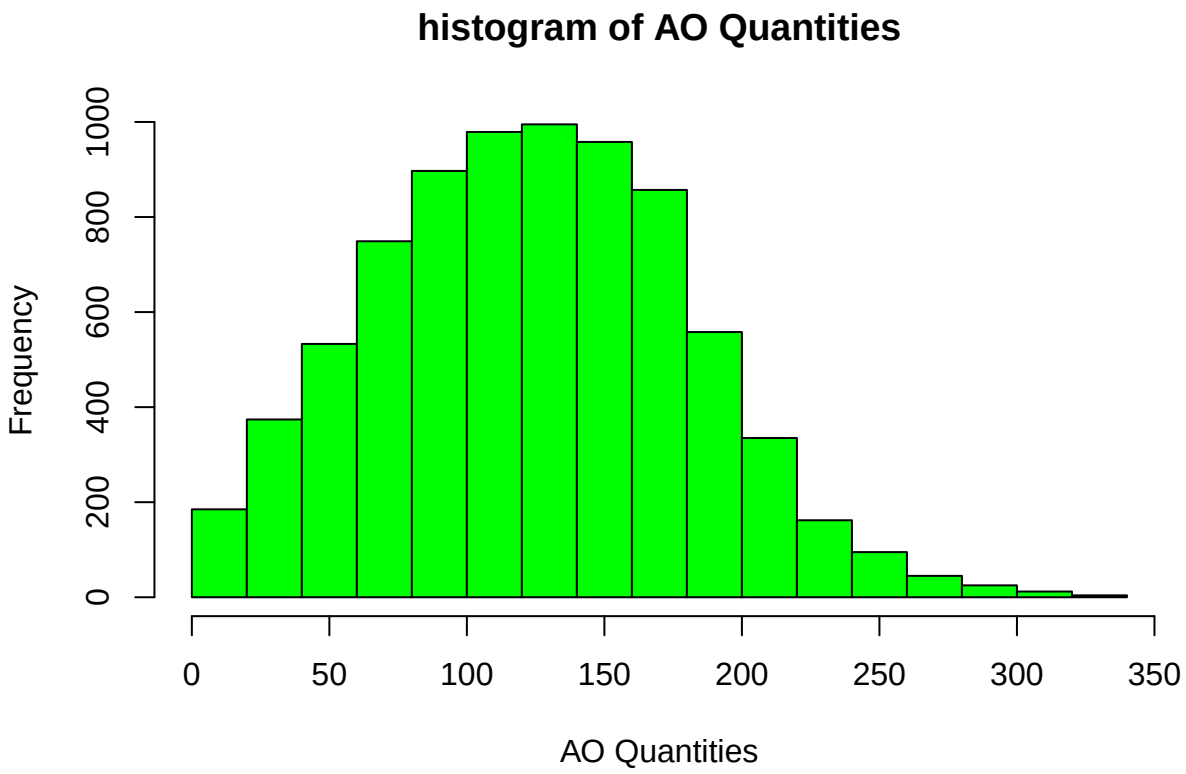



```
VCFstat::ChromRO(vcf = "freebayes_D2.filtered.vcf.gz", chromlist = chromlist,windowSize = 1e+05, binwid
```




```
VCFstat::ChromAO(vcf = "freebayes_D2.filtered.vcf.gz", chromlist = chromlist,windowSize = 1e+05, binwid
```

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VCFstat::ChromMQM(vcf = "freebayes_D2.filtered.vcf.gz", chromlist = chromlist,windowSize = 1e+05, binwi
```
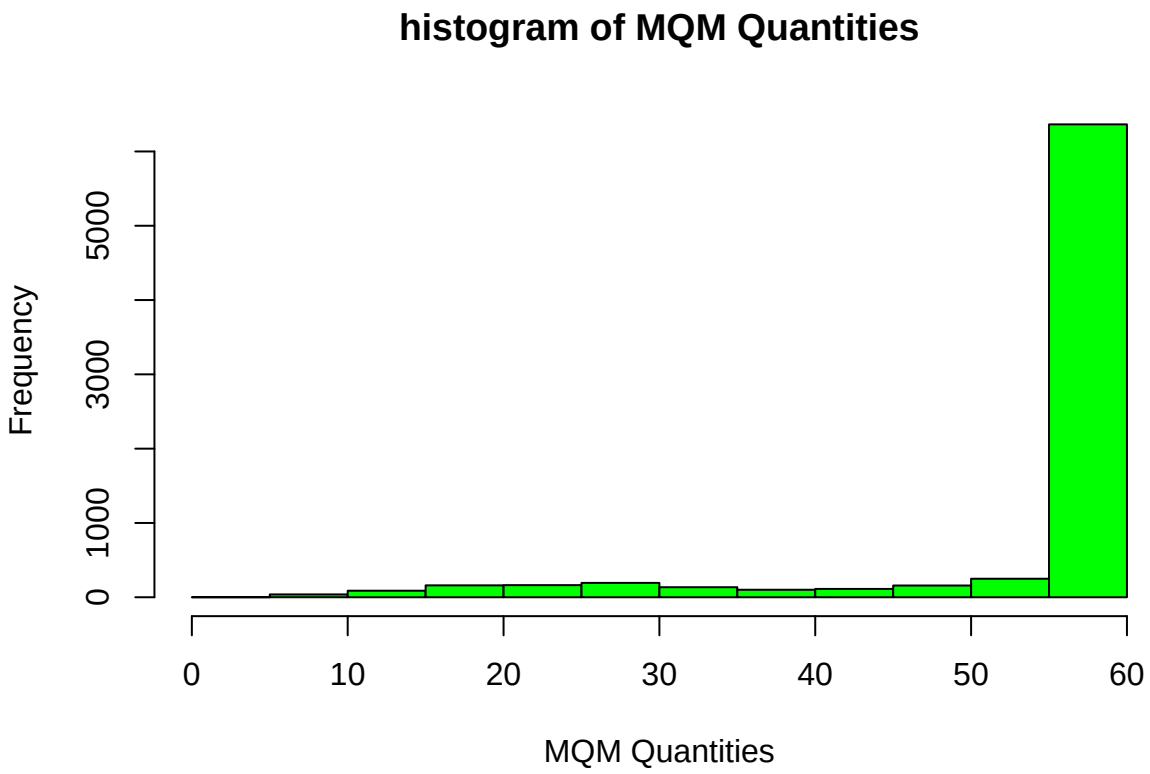
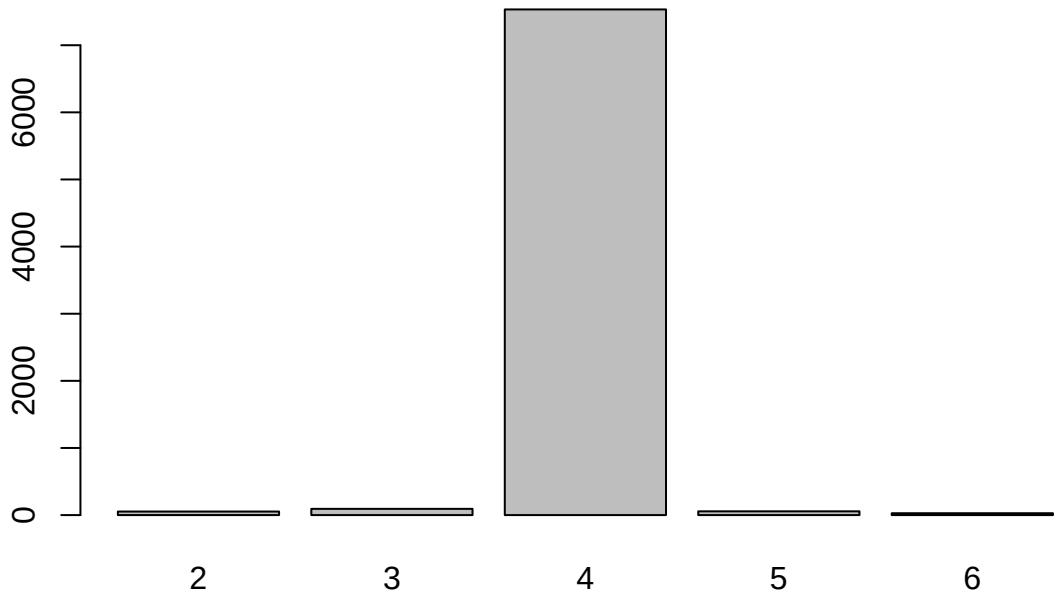
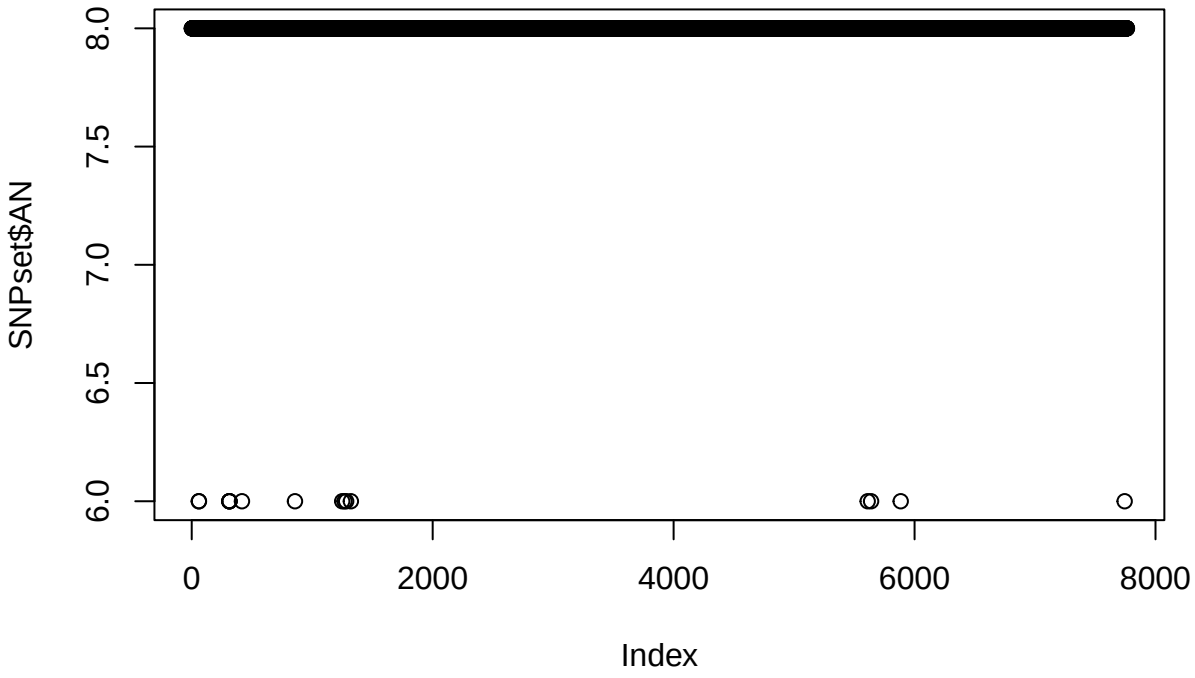



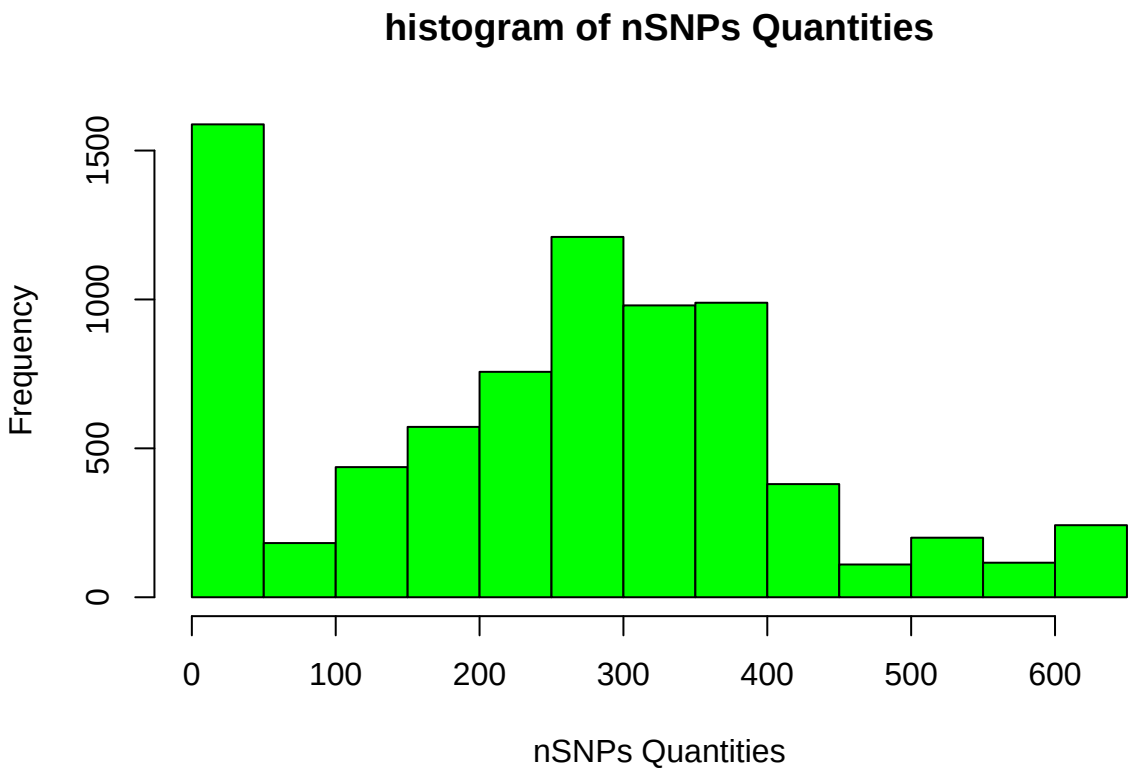

```
VCFstat::ChromAC(vcf = "freebayes_D2.filtered.vcf.gz", chromlist = chromlist,windowSize = 1e+05, binwid
```



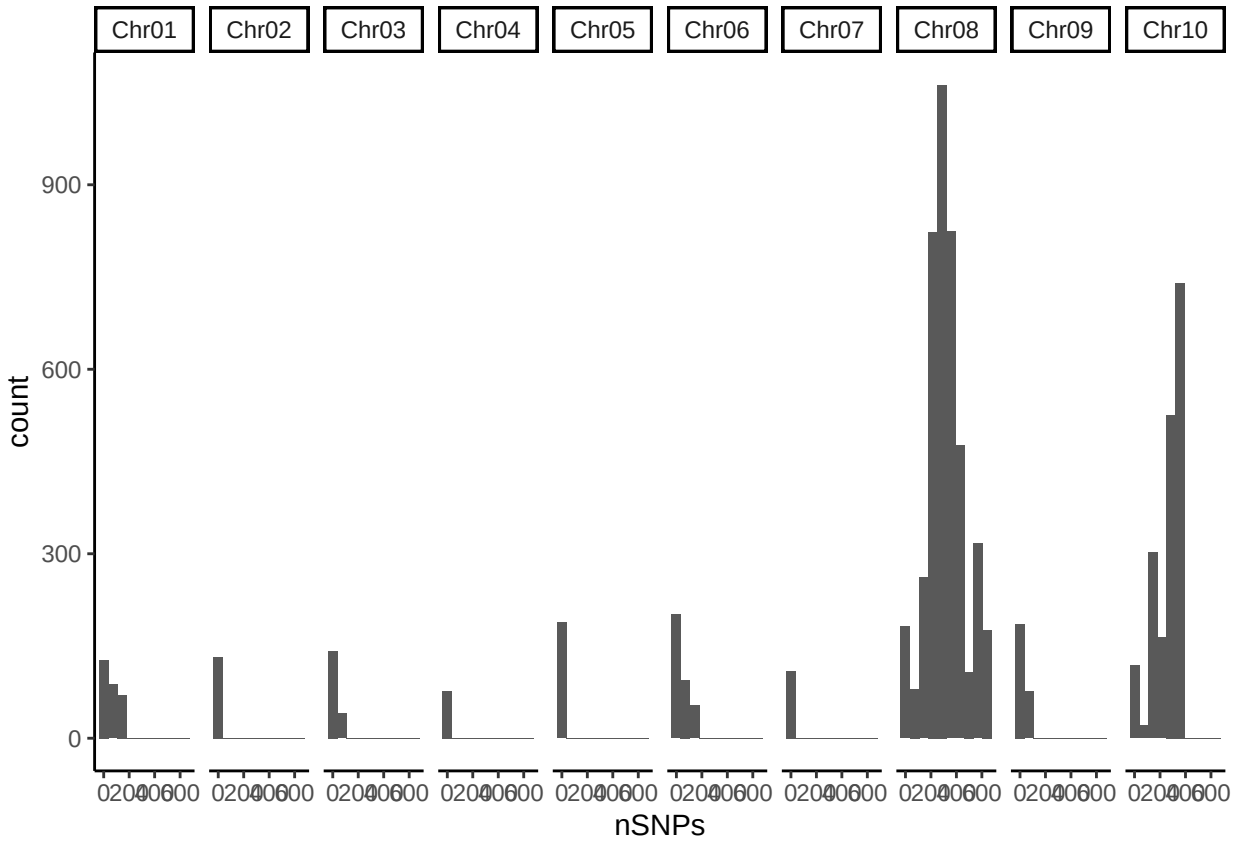

```
VCFstat::ChromAN(vcf = "freebayes_D2.filtered.vcf.gz", chromlist = chromlist,windowSize = 1e+05, binwid
```



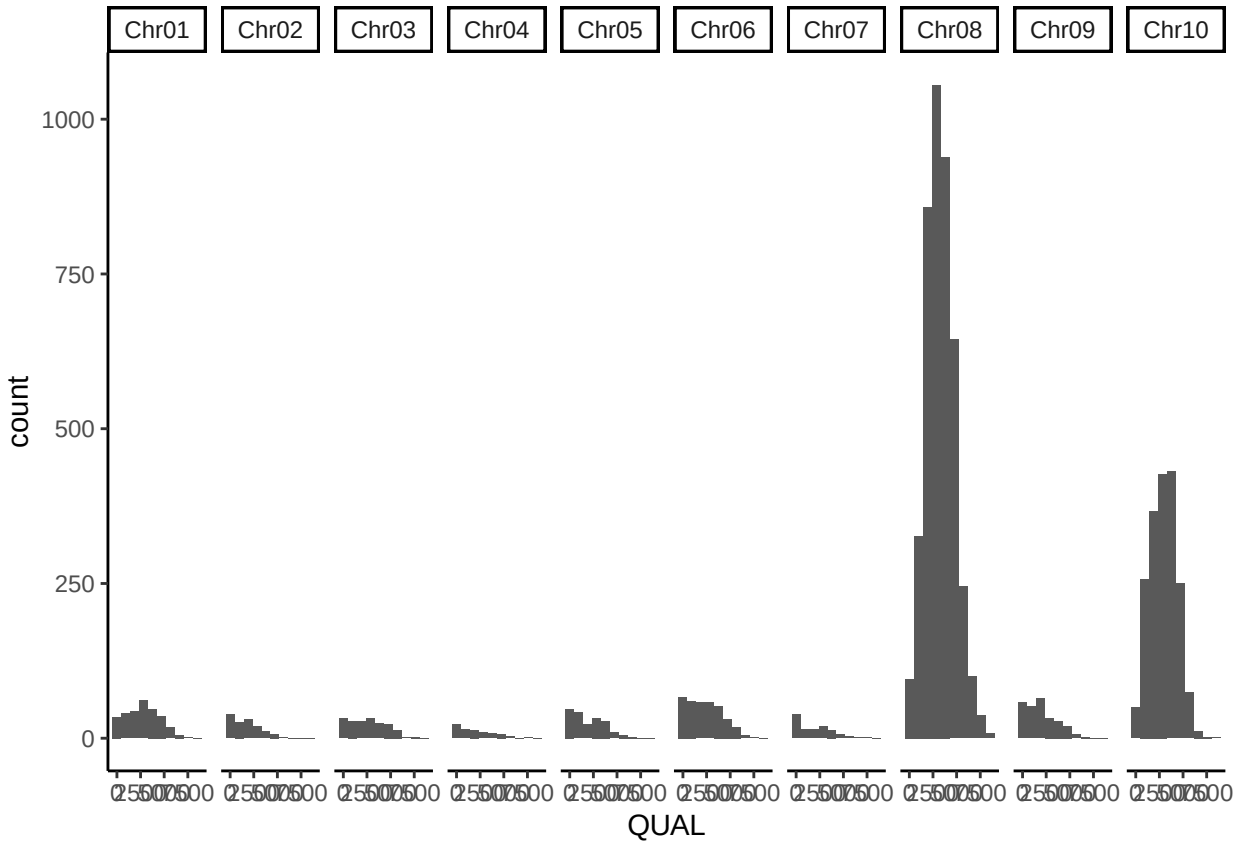

```
VCFstat::ChromnSNPs(vcf = "freebayes_D2.filtered.vcf.gz", chromlist = chromlist,windowSize = 1e+05, binw
```



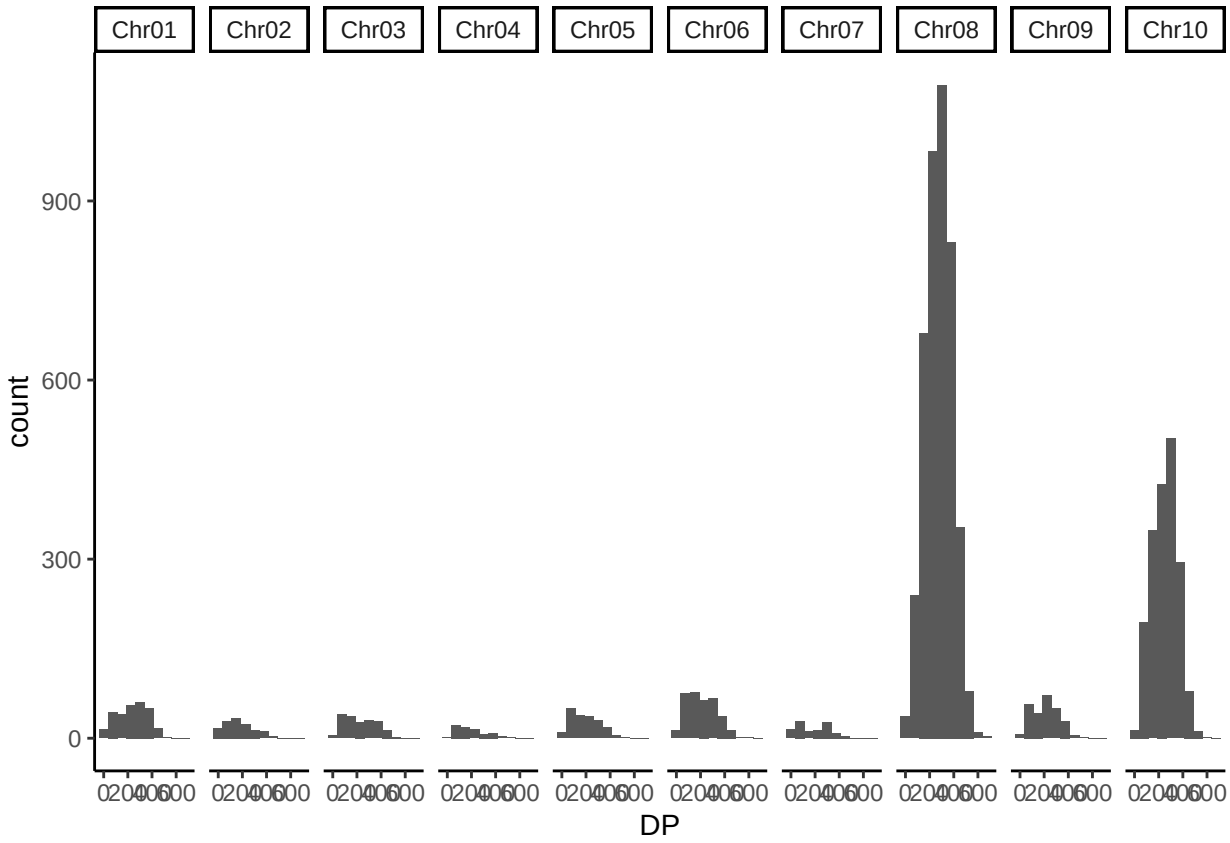

```
VCFstat::FacetChromnSNPs(vcf = "freebayes_D2.filtered.vcf.gz", chromlist = chromlist,windowSize = 1e+05
```



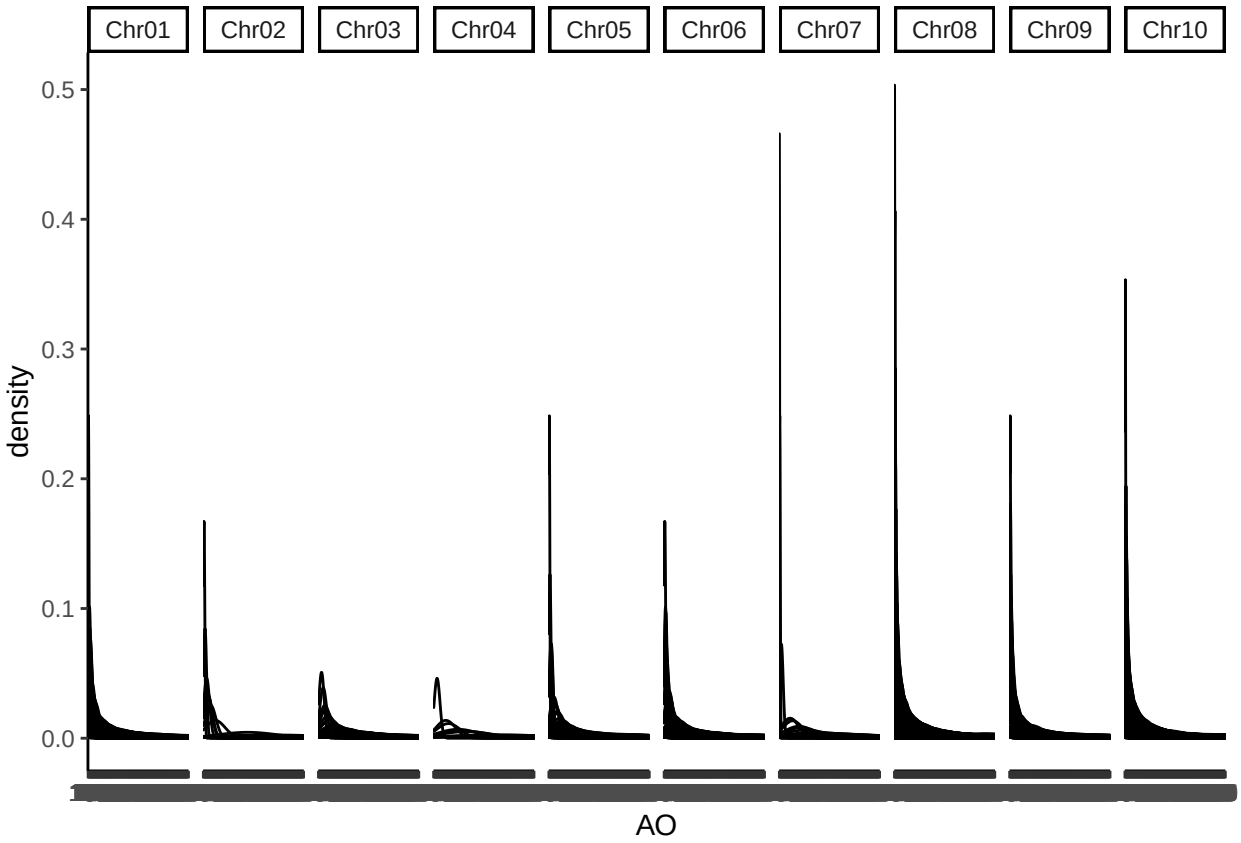

```
VCFstat::FacetChromQual(vcf = "freebayes_D2.filtered.vcf.gz", chromlist = chromlist,windowSize = 1e+05,
```

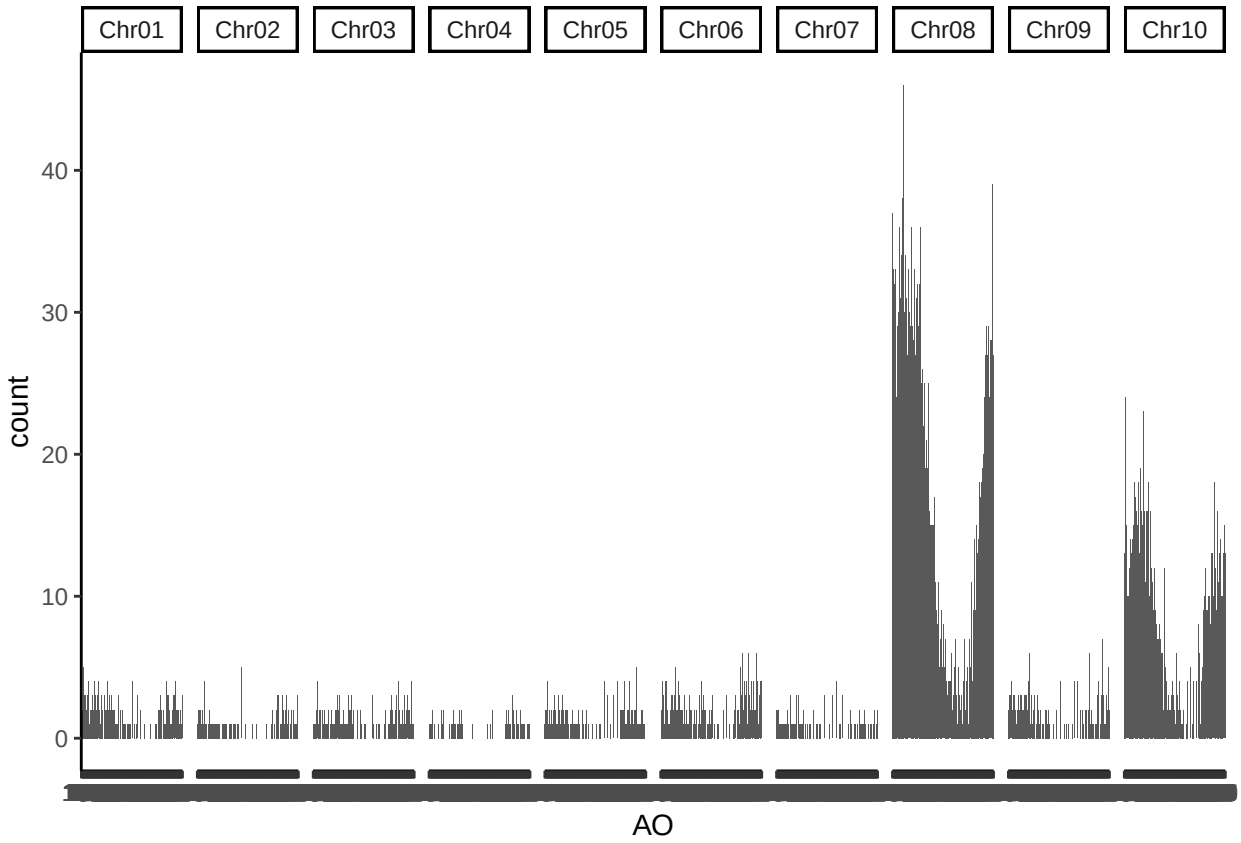



```
VCFstat::FacetChromDP(vcf = "freebayes_D2.filtered.vcf.gz", chromlist = chromlist,windowSize = 1e+05, n
```

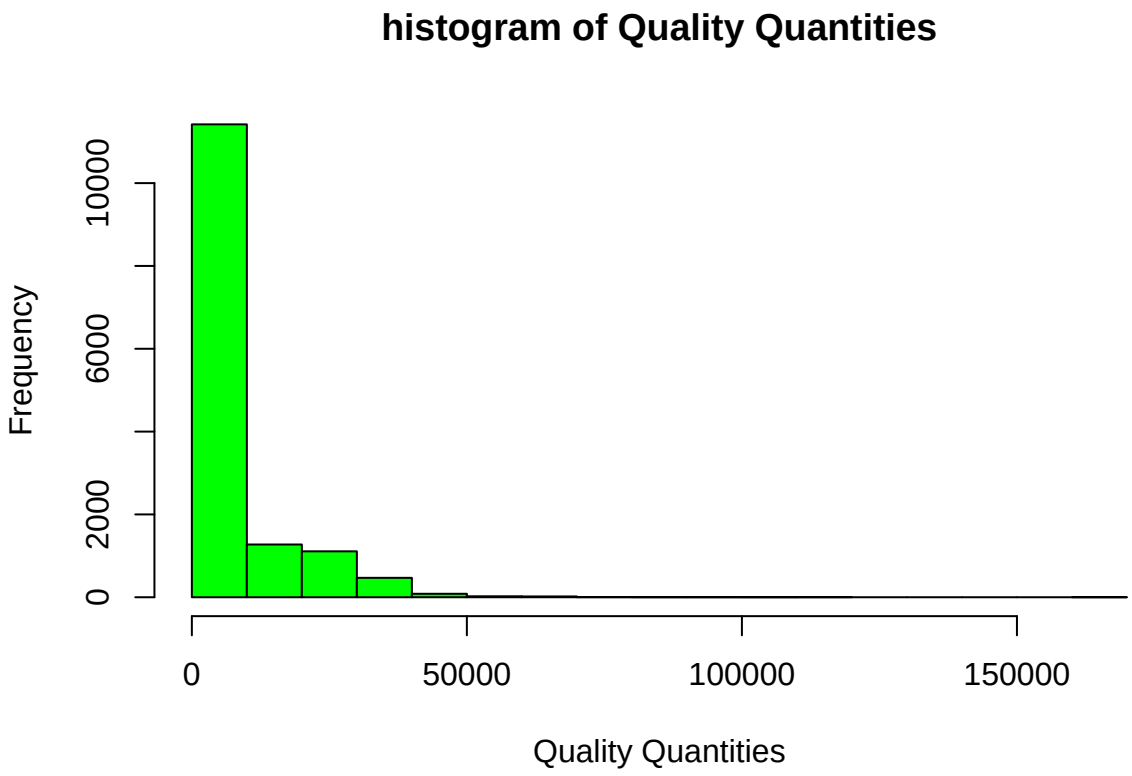



```
VCFstat::FacetChromAO(vcf = "freebayes_D2.filtered.vcf.gz", chromlist = chromlist,windowSize = 1e+05, n
```

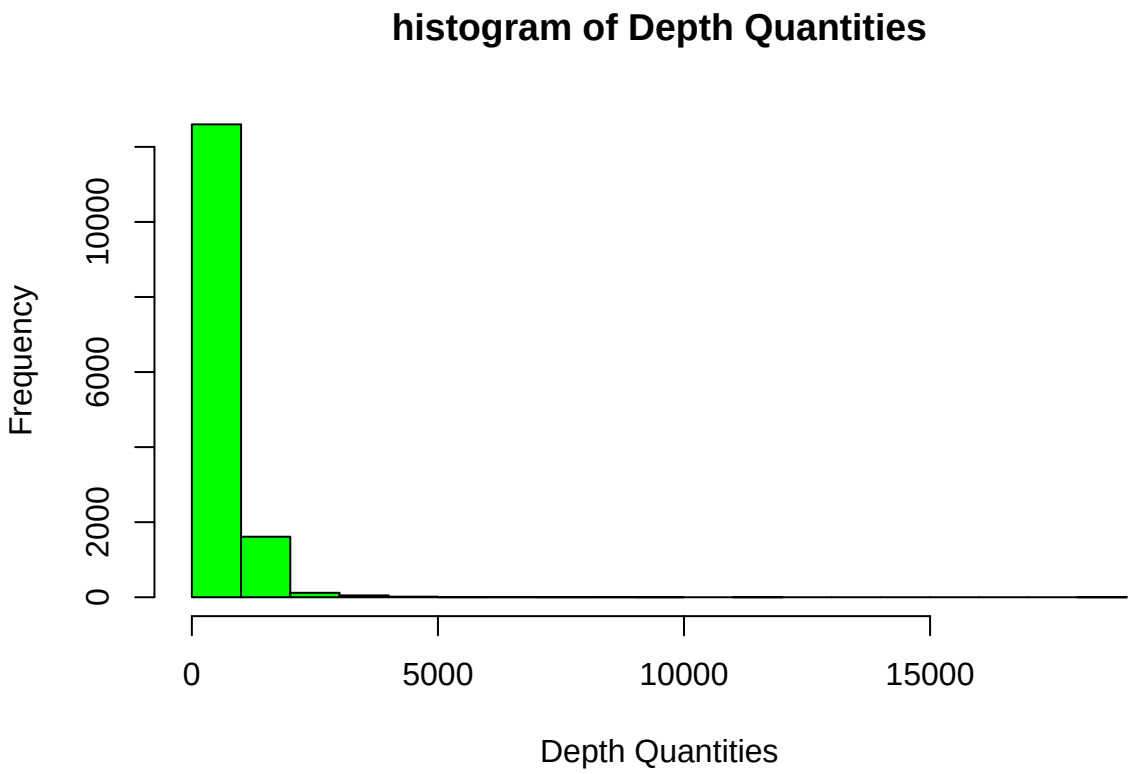

Chr01
Chr02
Chr03
Chr04
Chr05
Chr06
Chr07
Chr08
Chr09
Chr10
0.5
0.4
0.3
0.2
0.1
0.0
density
AO



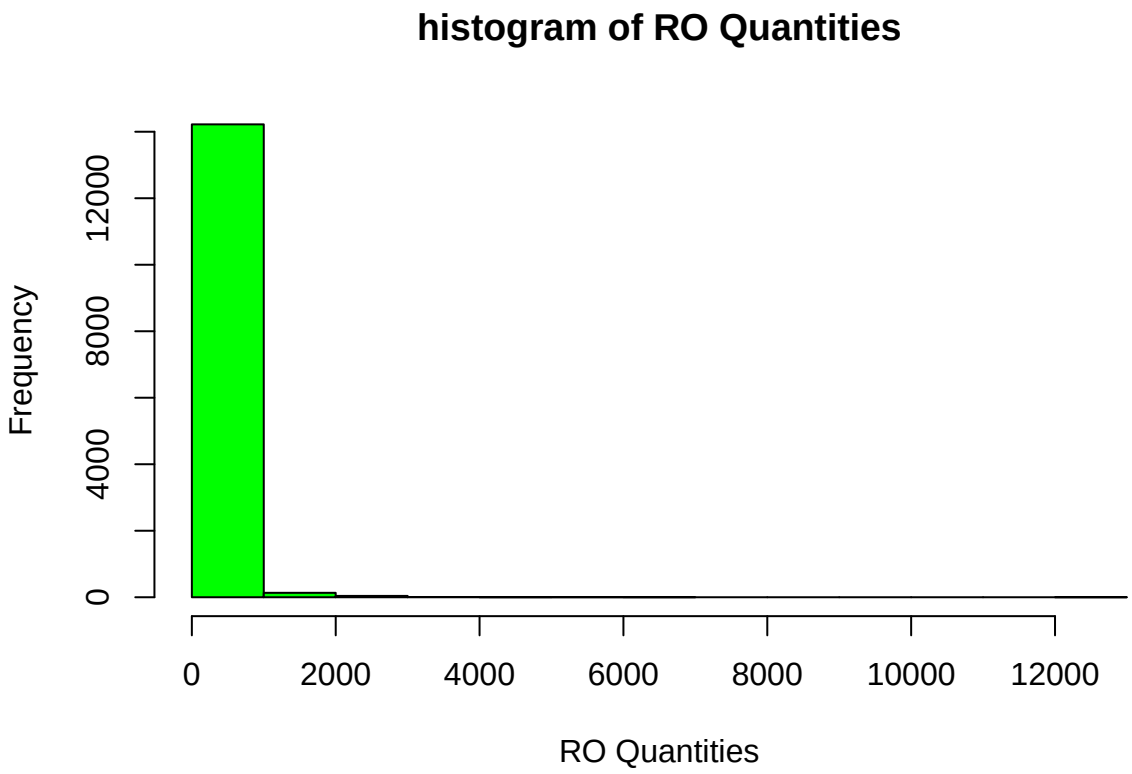

```
setwd("/home/michael/Desktop/Variants/Decompressed/")

chromlist <- c("NC_016131.3","NC_016132.3","NC_016133.3","NC_016134.3","NC_016135.3")


VCFstat::ChromQual(vcf = "freebayes~bwa~GCF_000005505.3_Brachypodium_distachyon_v3.0~all_samples~filtere
```



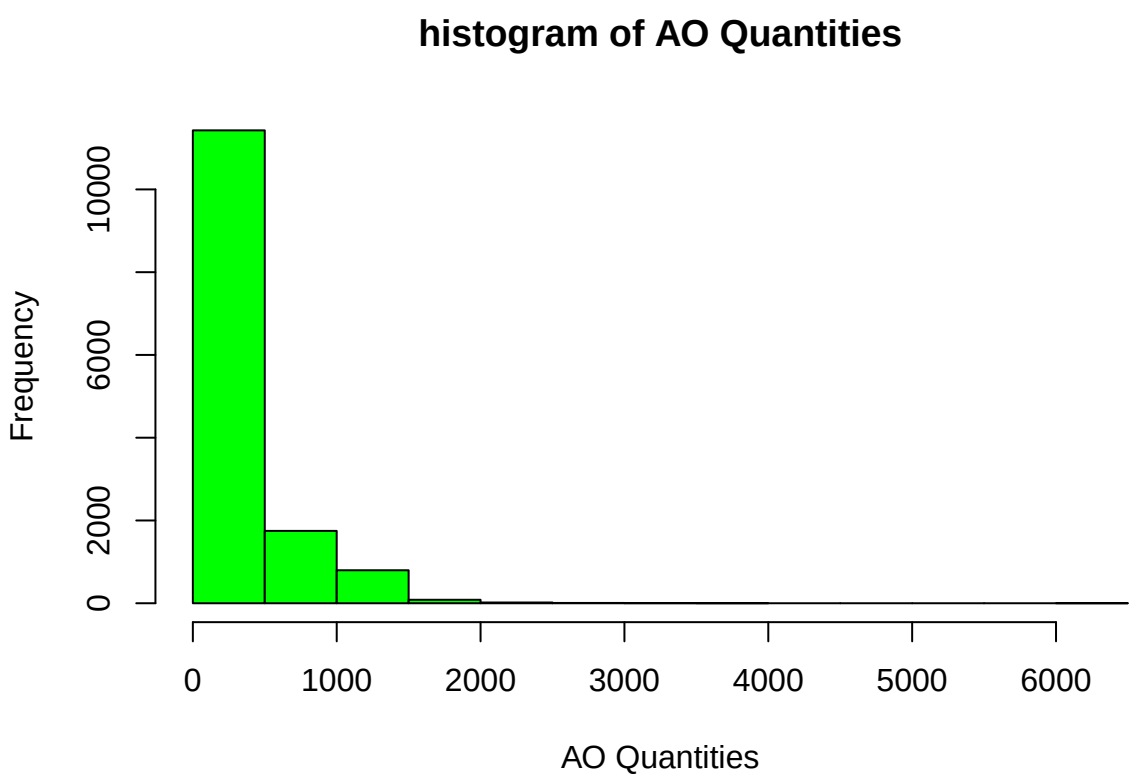

```
VCFstat::ChromDP(vcf = "freebayes~bwa~GCF_000005505.3_Brachypodium_distachyon_v3.0~all_samples~filtered
```




```
VCFstat::ChromRO(vcf = "freebayes~bwa~GCF_000005505.3_Brachypodium_distachyon_v3.0~all_samples~filtered
```




```
VCFstat::ChromAO(vcf = "freebayes~bwa~GCF_000005505.3_Brachypodium_distachyon_v3.0~all_samples~filtered
```




```
VCFstat::ChromMQM(vcf = "freebayes~bwa~GCF_000005505.3_Brachypodium_distachyon_v3.0~all_samples~filtere
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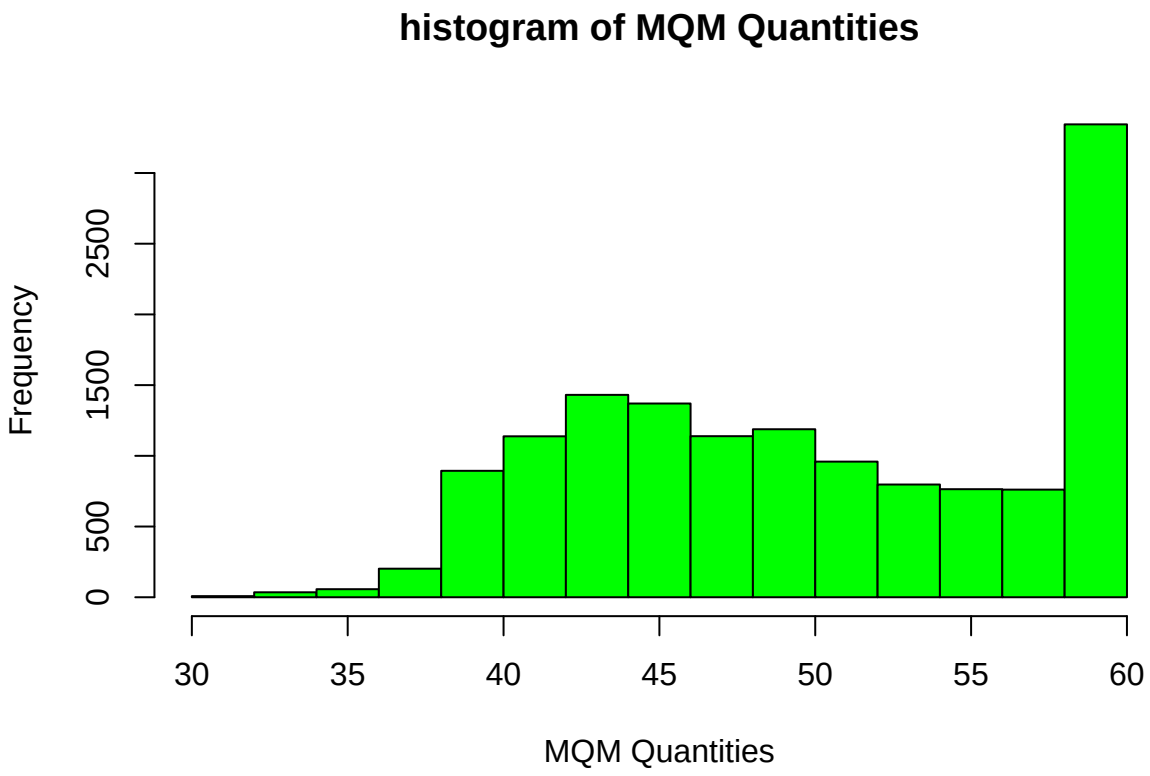
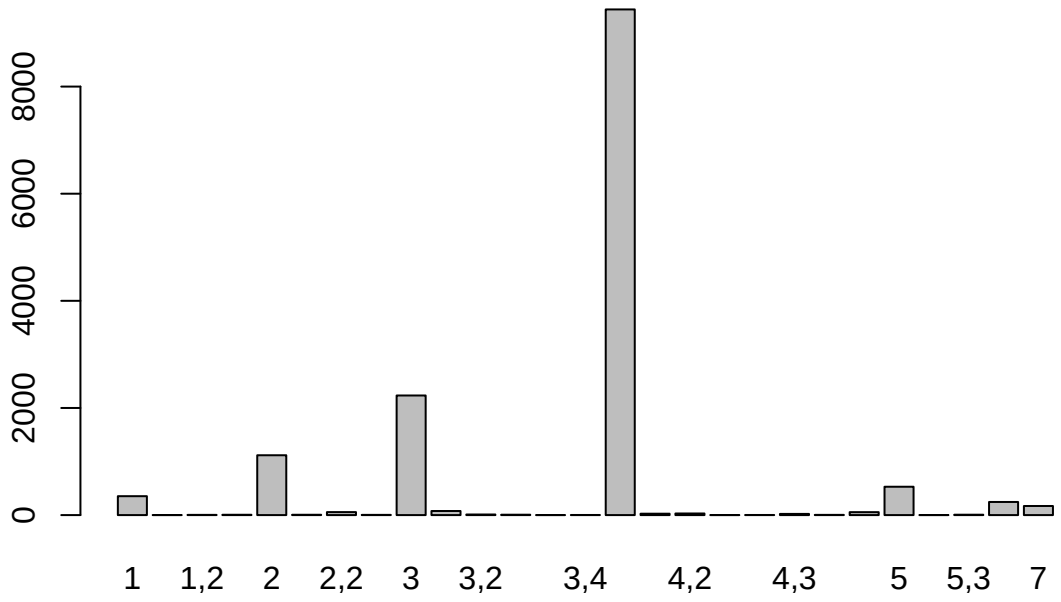
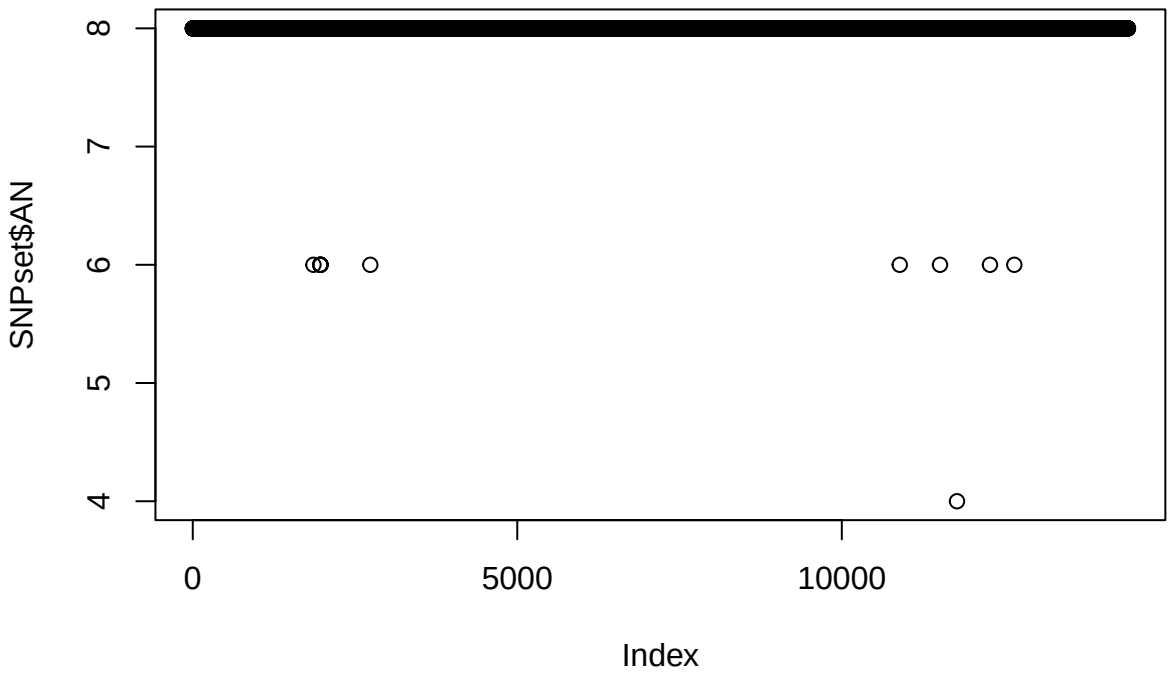



```
VCFstat::ChromAC(vcf = "freebayes~bwa~GCF_000005505.3_Brachypodium_distachyon_v3.0~all_samples~filtered
```




```
VCFstat::ChromAN(vcf = "freebayes~bwa~GCF_000005505.3_Brachypodium_distachyon_v3.0~all_samples~filtered
```

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VCFstat::ChromnSNPs(vcf = "freebayes~bwa~GCF_000005505.3_Brachypodium_distachyon_v3.0~all_samples~filte
```
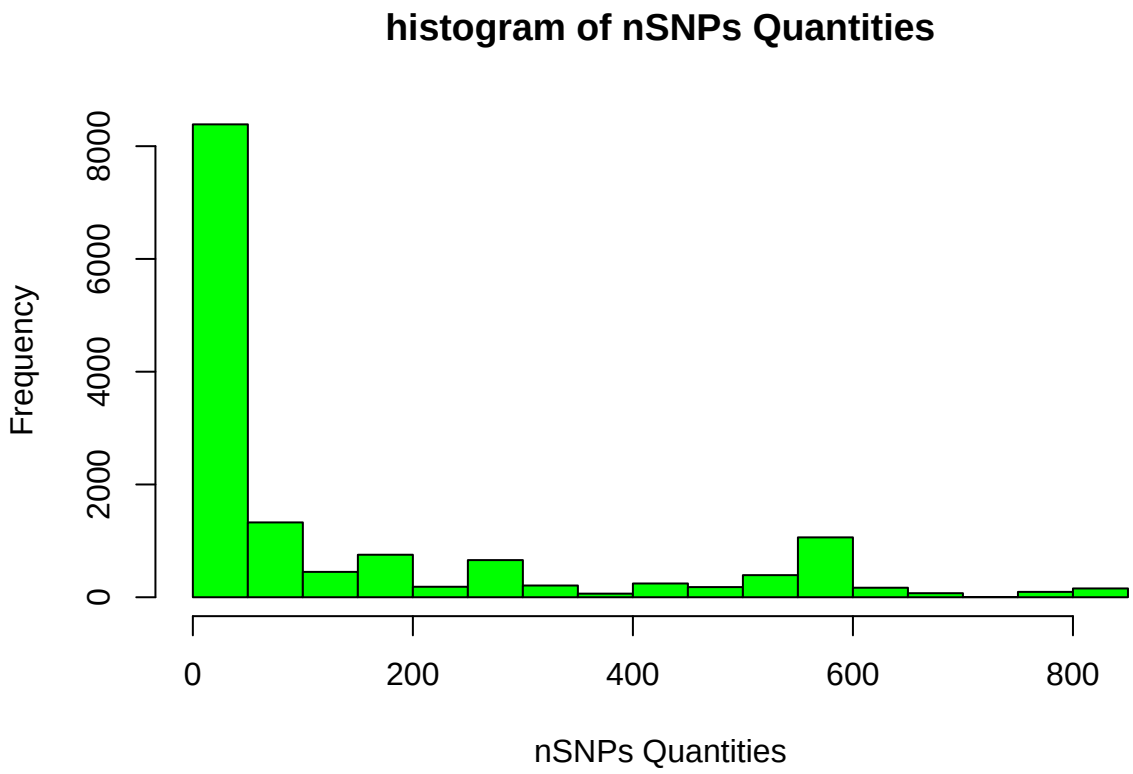
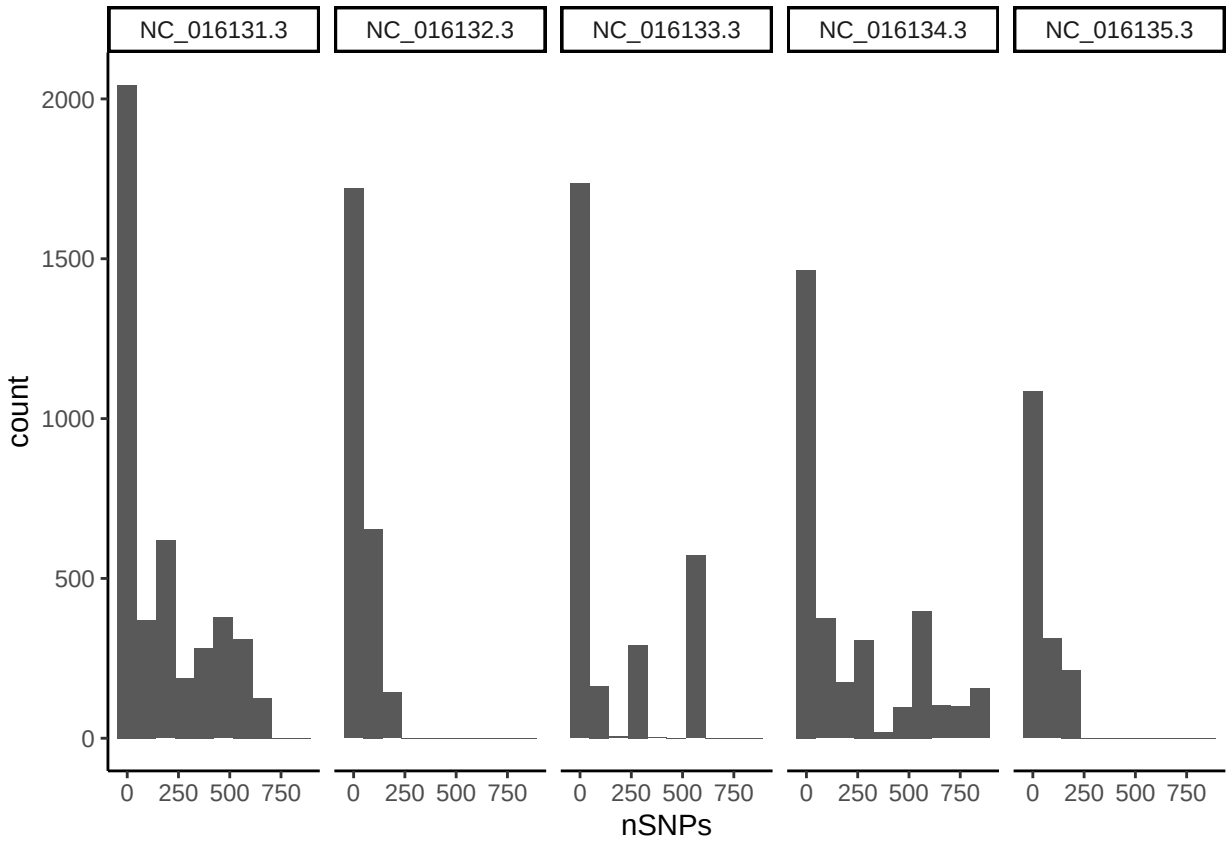
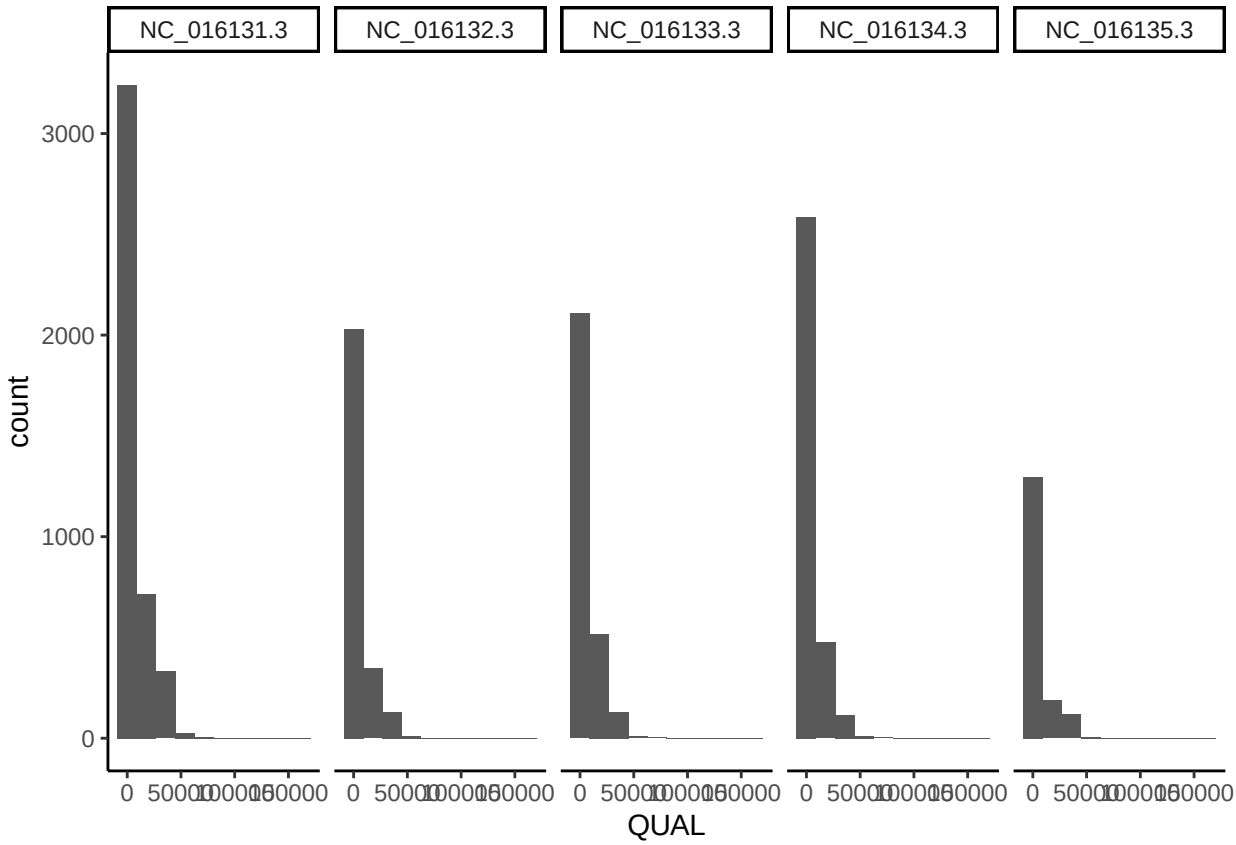



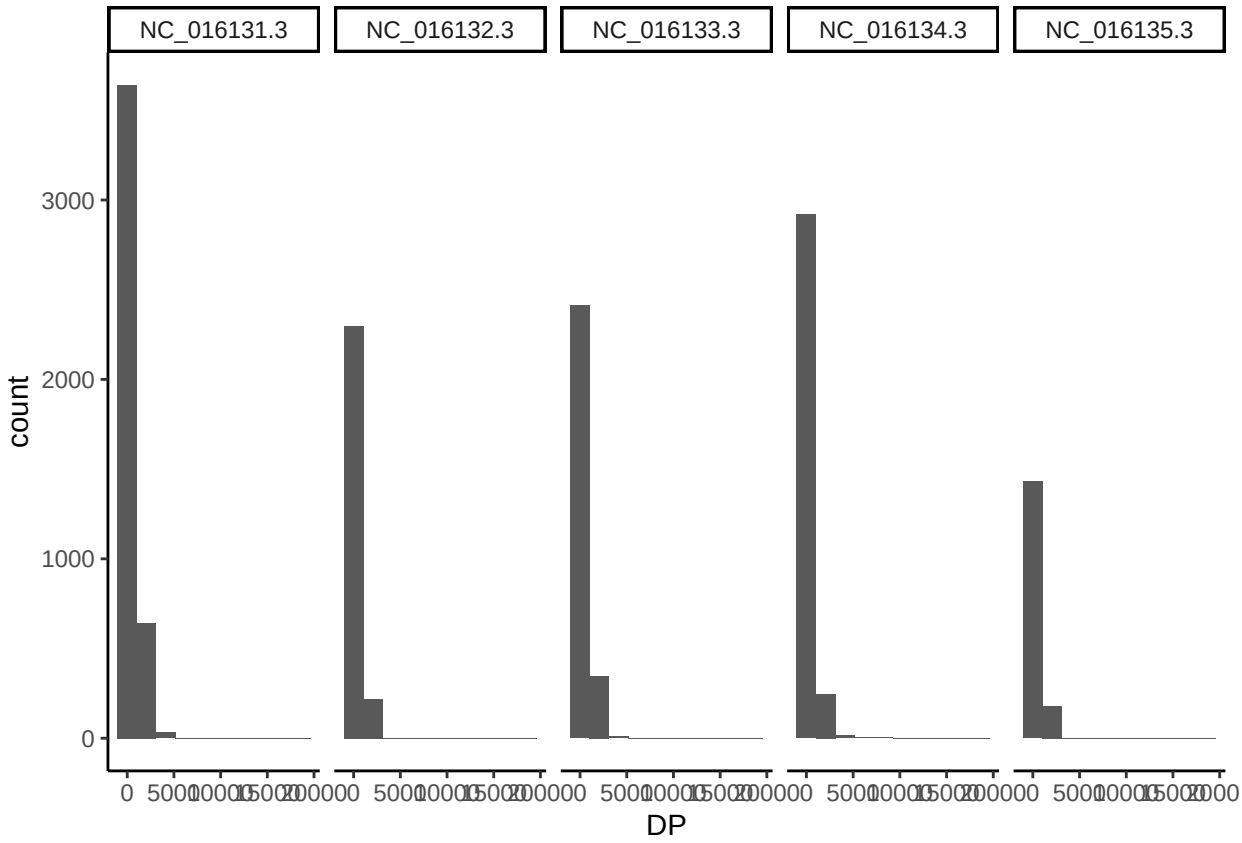

```
VCFstat::FacetChromnSNPs(vcf = "freebayes~bwa~GCF_000005505.3_Brachypodium_distachyon_v3.0~all_samples~
```



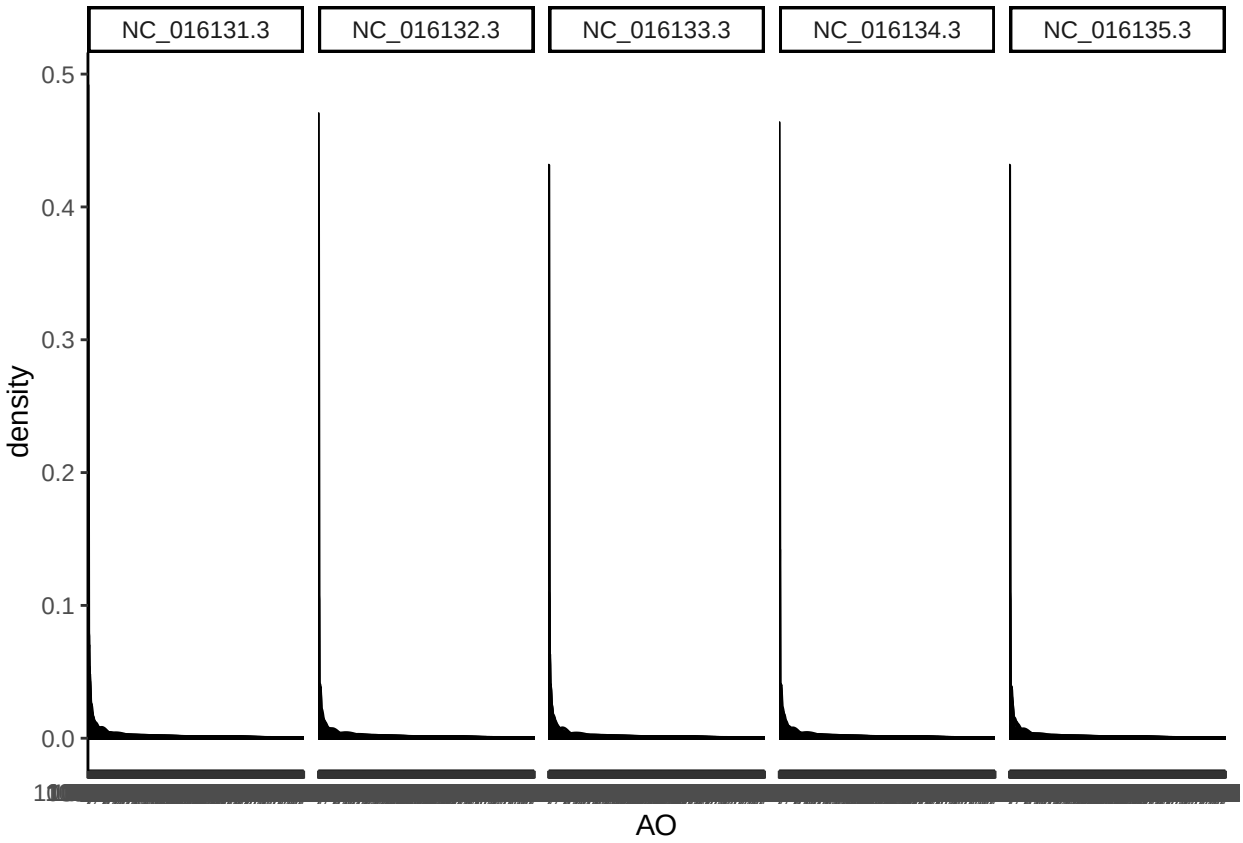

```
VCFstat::FacetChromQual(vcf = "freebayes~bwa~GCF_000005505.3_Brachypodium_distachyon_v3.0~all_samples~f
```

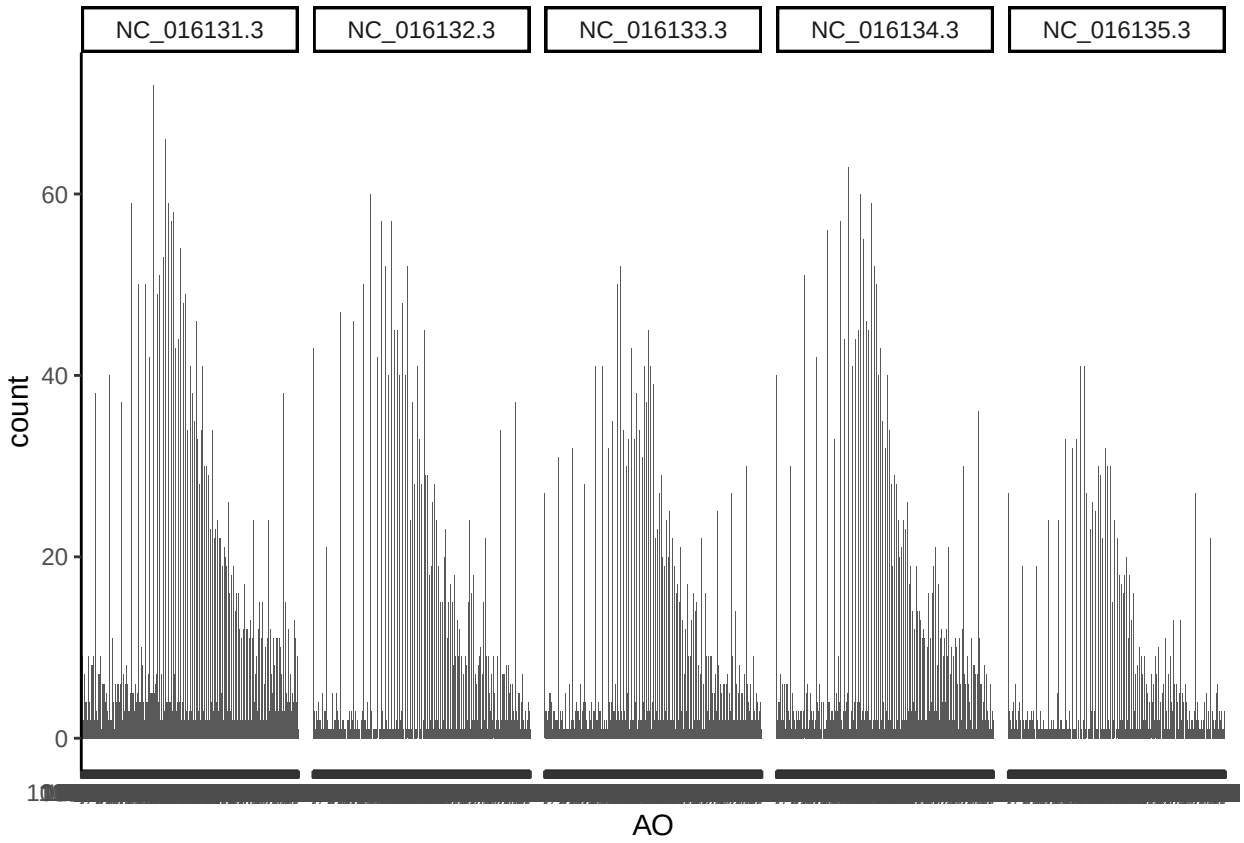



```
VCFstat::FacetChromDP(vcf = "freebayes~bwa~GCF_000005505.3_Brachypodium_distachyon_v3.0~all_samples~fil
```




```
VCFstat::FacetChromAO(vcf = "freebayes~bwa~GCF_000005505.3_Brachypodium_distachyon_v3.0~all_samples~fil
```


NC_016131.3
NC_016132.3
NC_016133.3
NC_016134.3
NC_016135.3
0.5
0.4
0.3
0.2
0.1
0.0
density
AO


NC_016131.3
NC_016132.3
NC_016133.3
NC_016134.3
NC_016135.3
60
40
20
0
count
AO