violin-plots
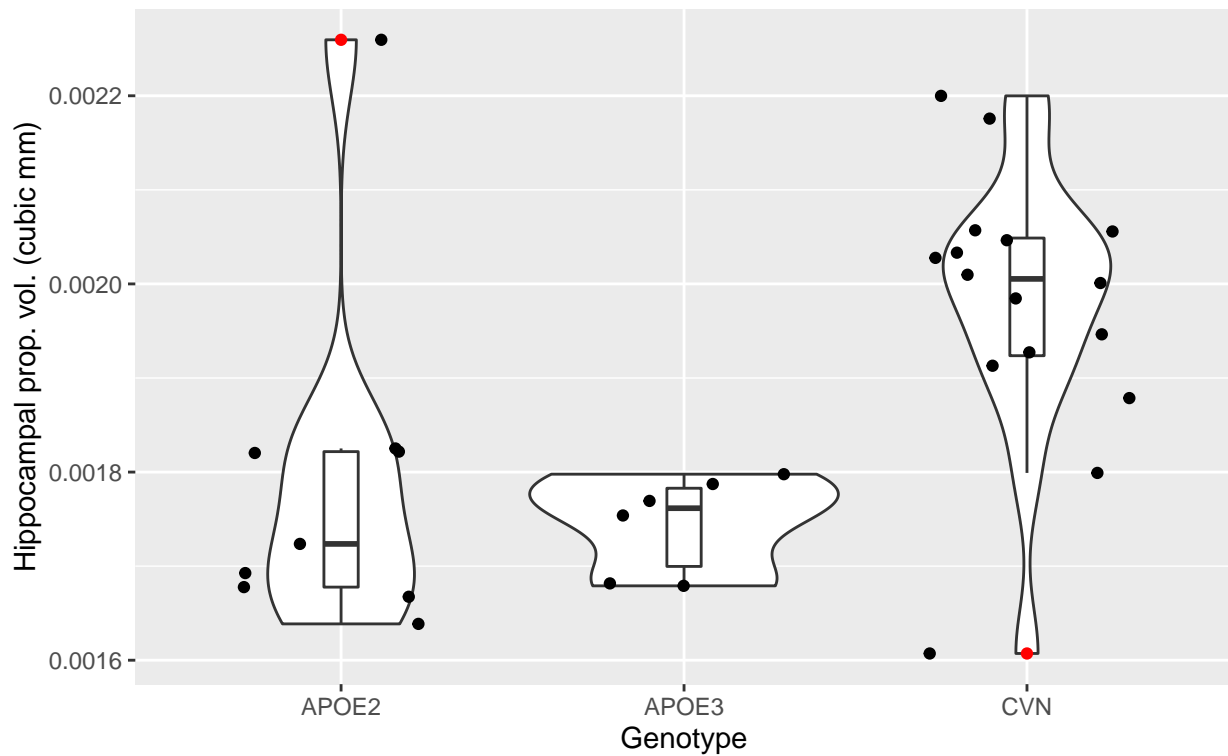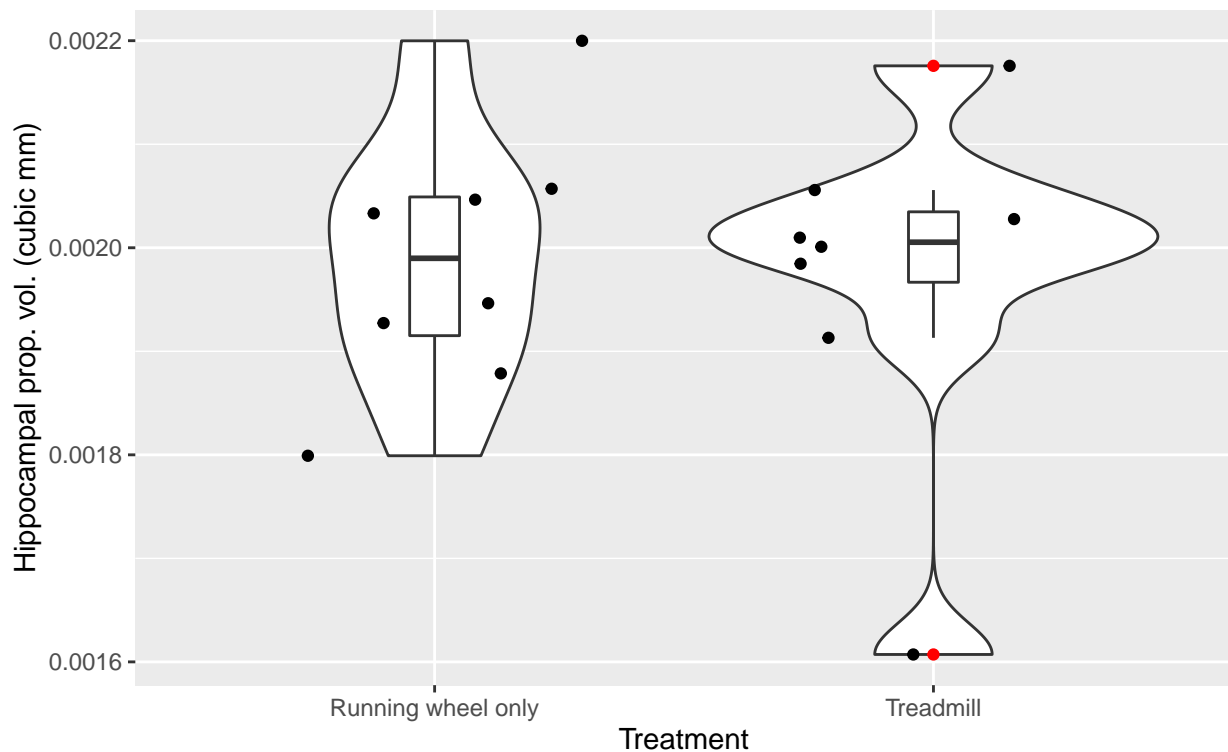
Anna MacFarlane

11/14/2020

Distributions of hippocampal proportional volumes by genotype
Red points denoting outliers

Distributions of hippocampal proportional volumes by treatment
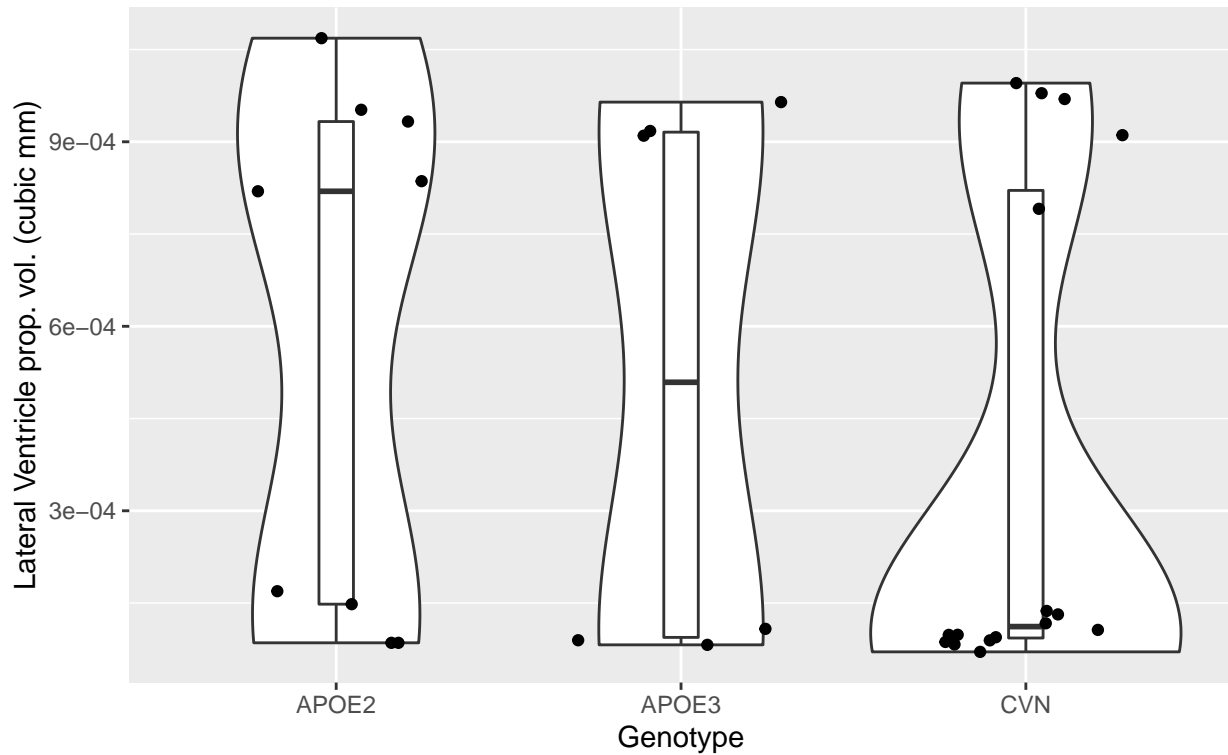In CVN genotype with red points denoting outliers

```
##
##  Welch Two Sample t-test
##
## data:  rw and tm
## t = 0.19398, df = 13.009, p-value = 0.8492
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.0001436222  0.0001719597
## sample estimates:
##    mean of x    mean of y
## 0.001986000 0.001971831
```
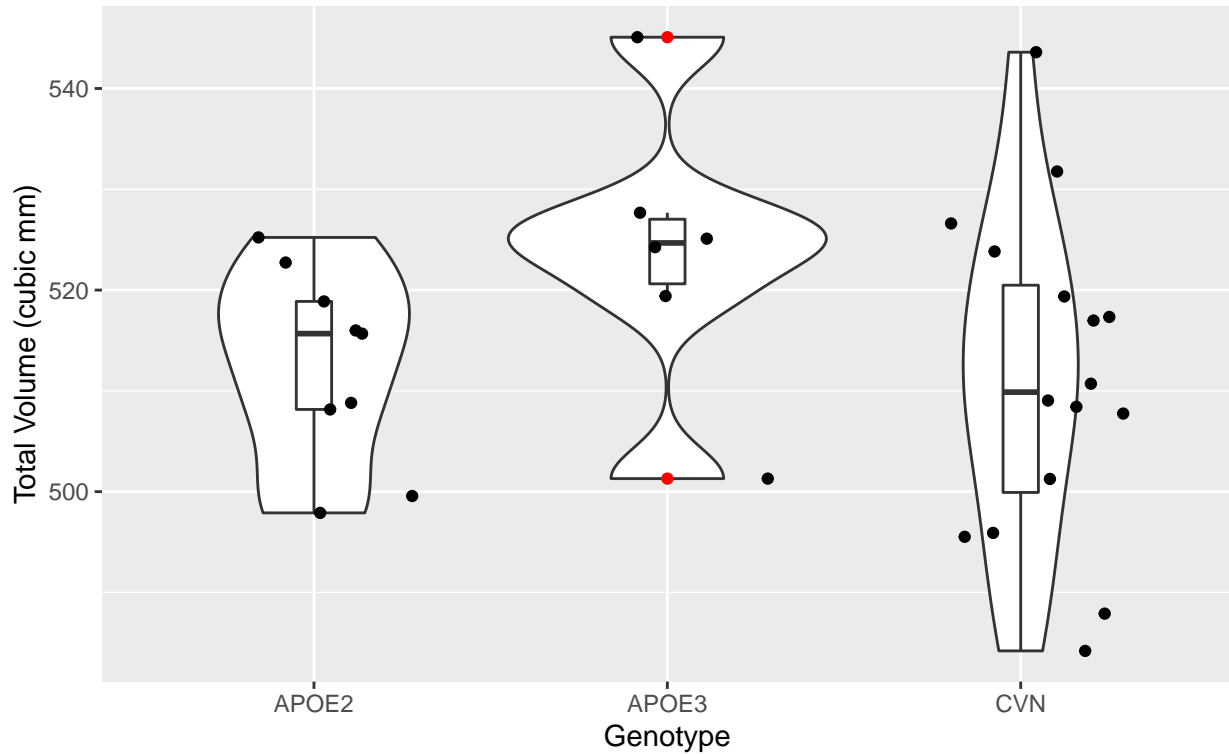

Distributions of lateral ventricle proportional volumes by genotype
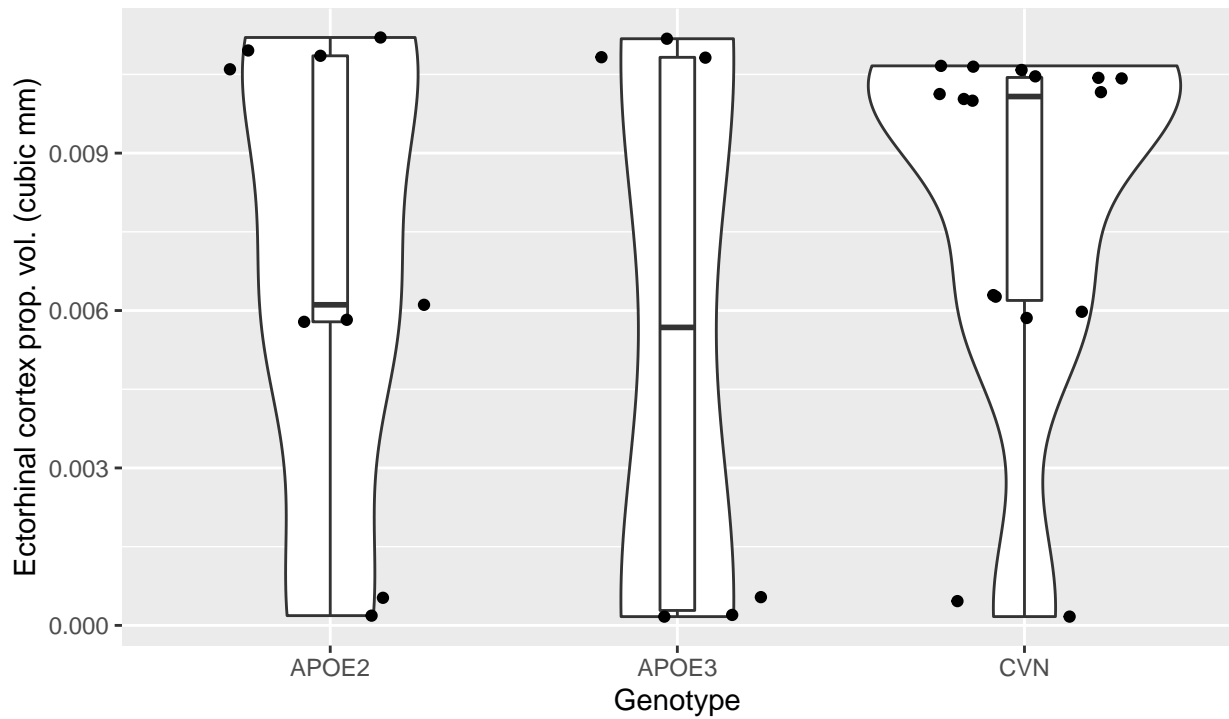
Red points denoting outliers

Distributions of total brain volumes by genotype
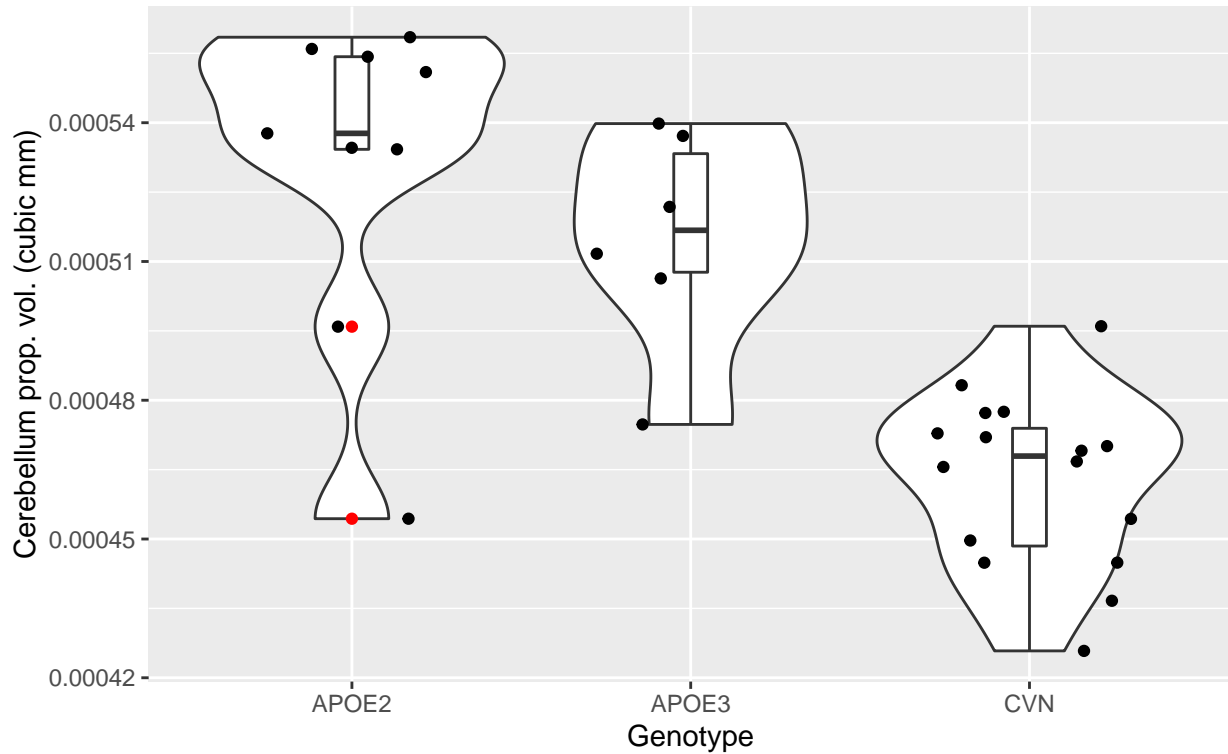Red points denoting outliers

Distributions of ectorhinal cortex proportional volumes by genotype
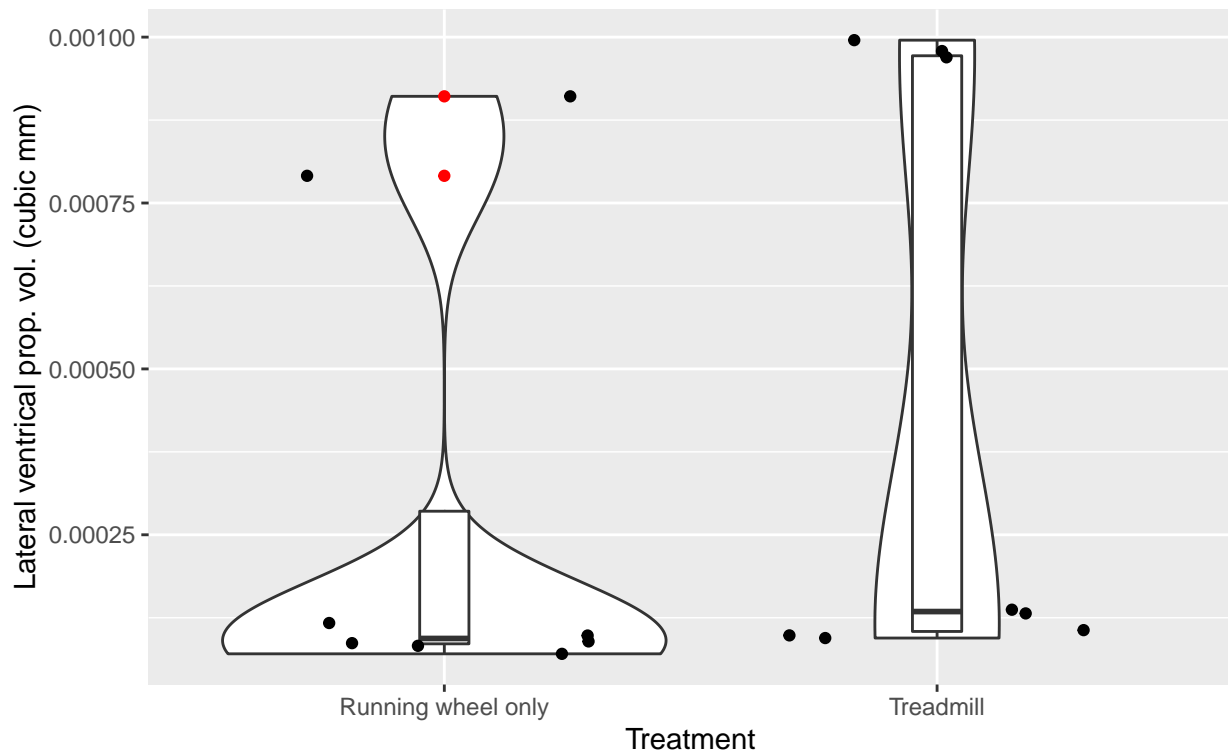Red points denoting outliers

Distributions of cerebellum proportional volumes by genotype
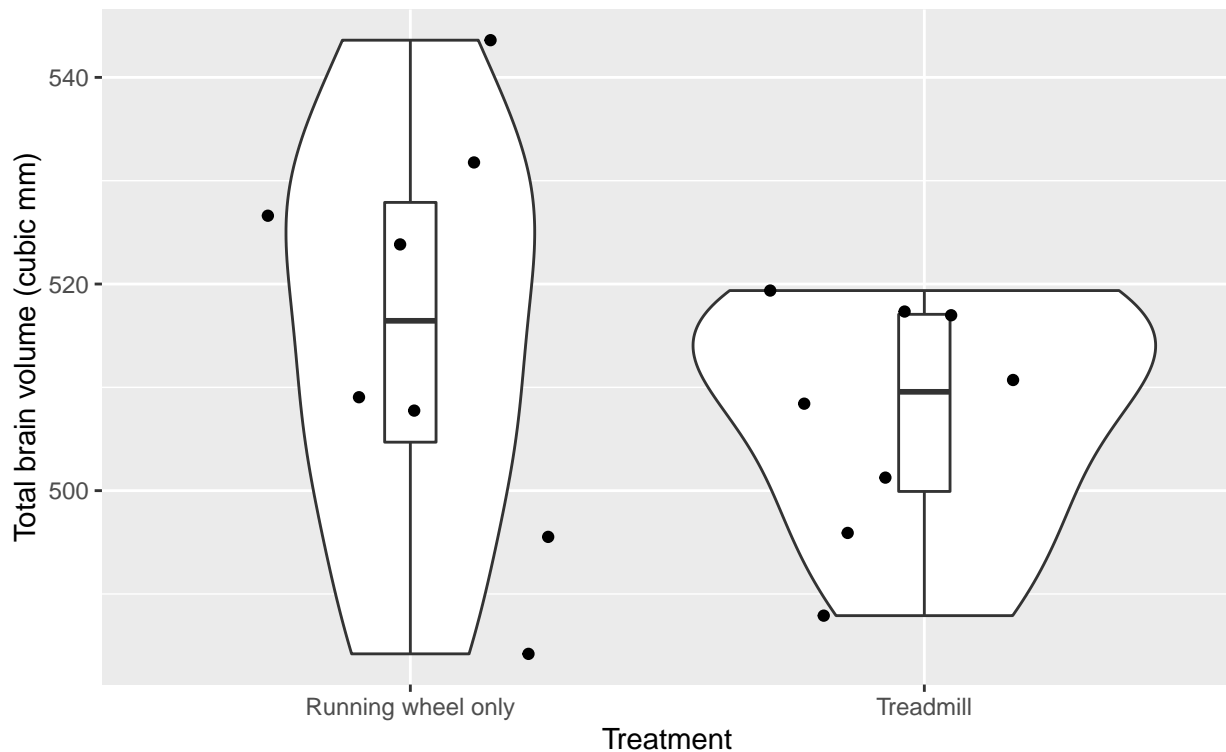
Red points denoting outliers

Distributions of lateral ventrical proportional volumes by treatment

In CVN genotype with red points denoting outliers

```
##
##   Welch Two Sample t-test
##
## data:  rw and tm
## t = -0.7824, df = 13.265, p-value = 0.4477
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##   -0.0005940676  0.0002777043
## sample estimates:
##     mean of x     mean of y
## 0.0002807931 0.0004389748
```

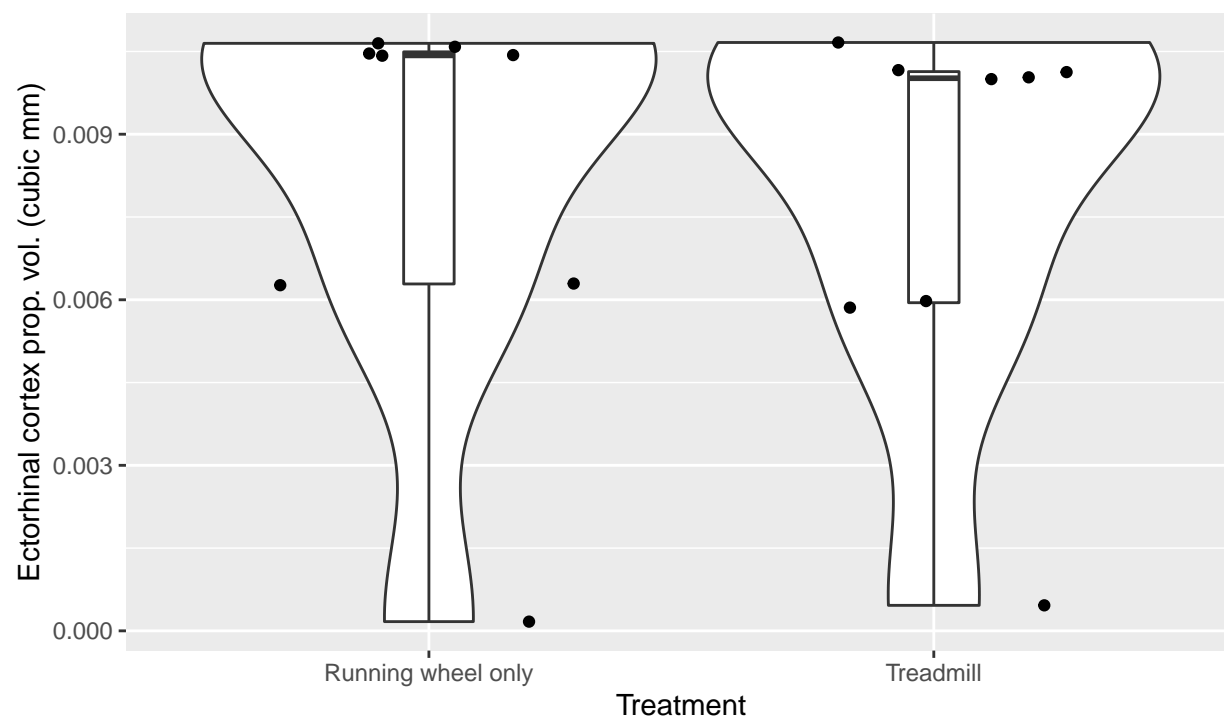## Distributions of total brain volumes volumes by treatment
In CVN genotype with red points denoting outliers


```
##
##   Welch Two Sample t-test
##
## data:  rw and tm
## t = 1.0017, df = 11.149, p-value = 0.3377
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##   -9.617324 25.730573
## sample estimates:
## mean of x mean of y
##   515.2913  507.2346
```
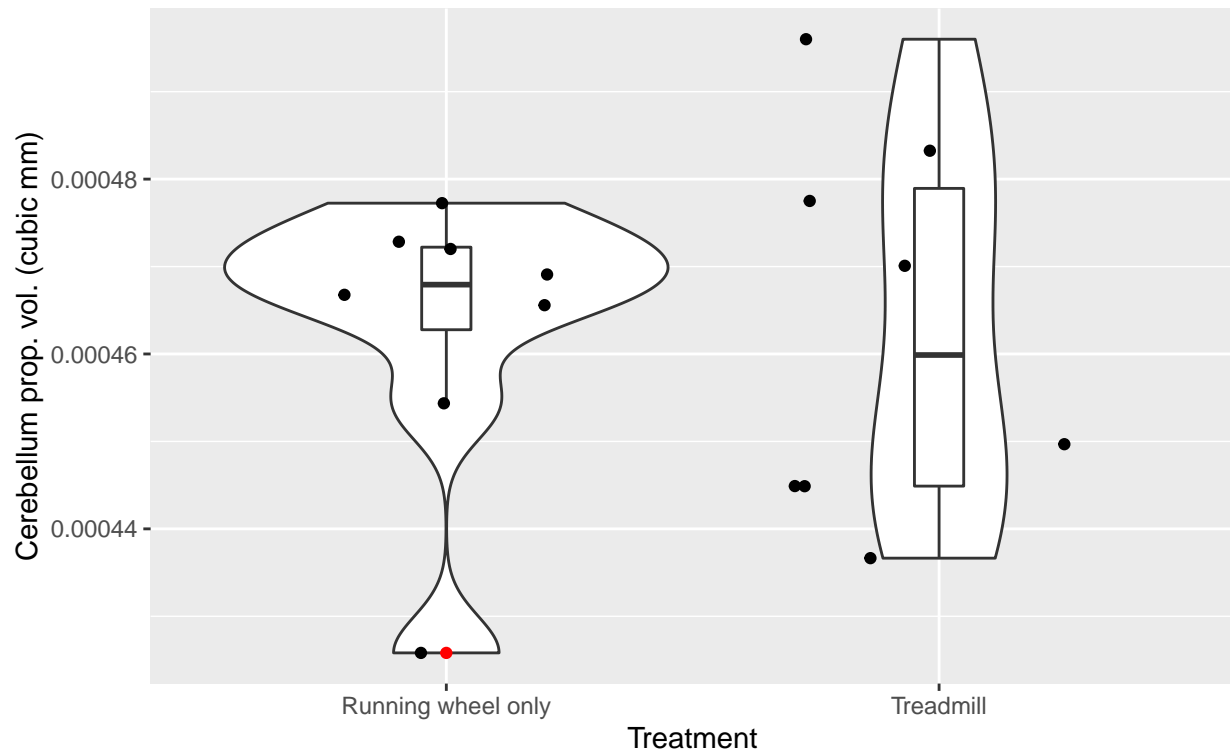
Distributions of ectorhinal cortex proportional volumes volumes by treatment

In CVN genotype with red points denoting outliers

```
##
##  Welch Two Sample t-test
##
## data:  rw and tm
## t = 0.13634, df = 13.97, p-value = 0.8935
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.003685234  0.004185445
## sample estimates:
##   mean of x   mean of y
## 0.008159700 0.007909594
```

Distributions of cerebellum proportional volumes volumes by treatment
In CVN genotype with red points denoting outliers

```
##
##   Welch Two Sample t-test
##
## data:  rw and tm
## t = 0.0099646, df = 13.06, p-value = 0.9922
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -2.068061e-05  2.087236e-05
## sample estimates:
##    mean of x    mean of y
## 0.0004629630 0.0004628671
```