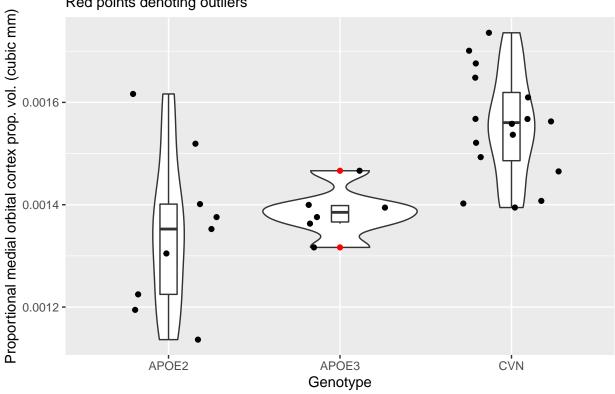
### Proportional Volume Distributions by Region

#### Anna MacFarlane

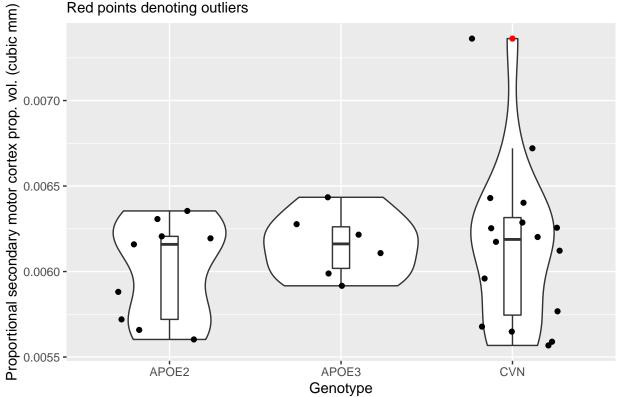
#### 11/14/2020

#### Violin plots

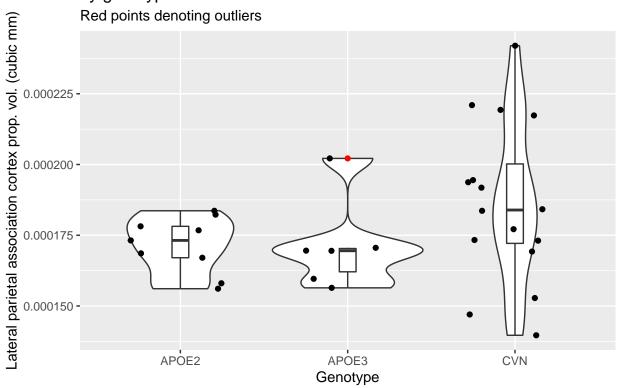
Distributions of medial orbital cortex proportional volumes by genotype Red points denoting outliers



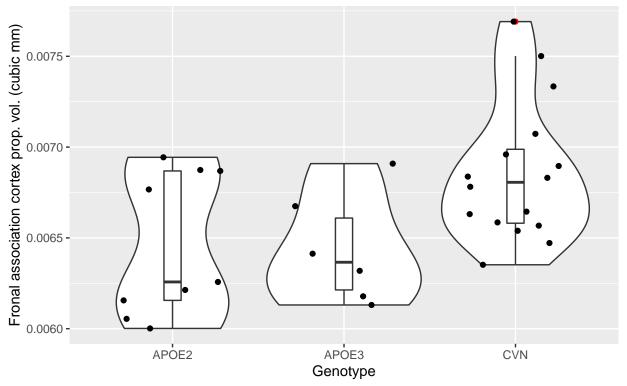
Distributions of secondary motor cortex proportional volumes by genotyp Red points denoting outliers



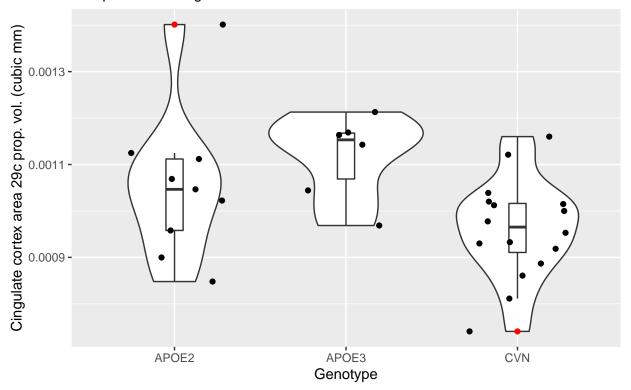
Distributions of lateral parietal assocation cortex proportional volumes by genotype



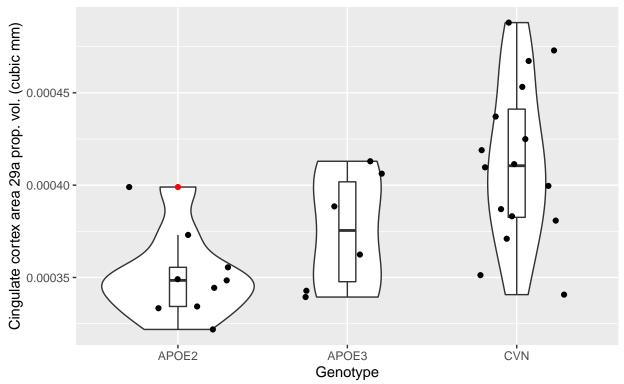
Distributions of frontal association cortex proportional volumes by genoty Red points denoting outliers



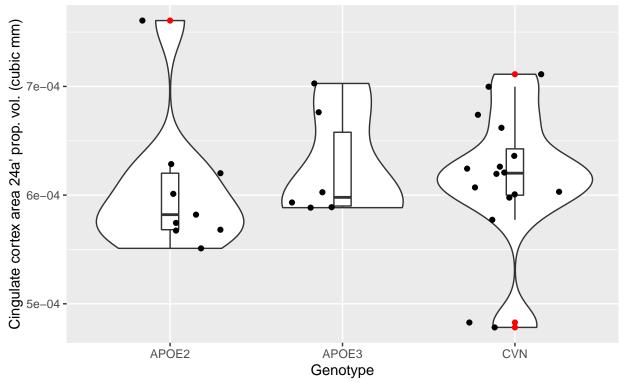
Distributions of cingulate cortex area 29c proportional volumes by genoty Red points denoting outliers



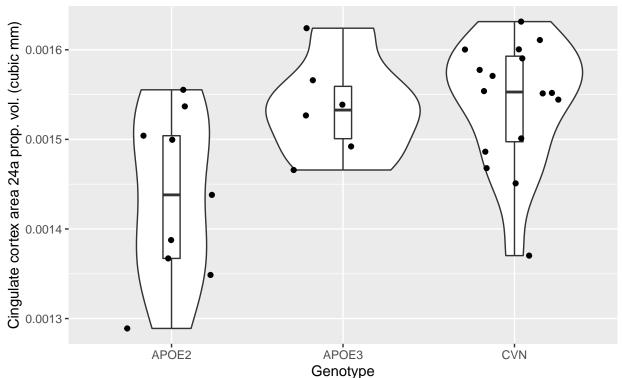
Distributions of cingulate cortex area 29a proportional volumes by genot Red points denoting outliers



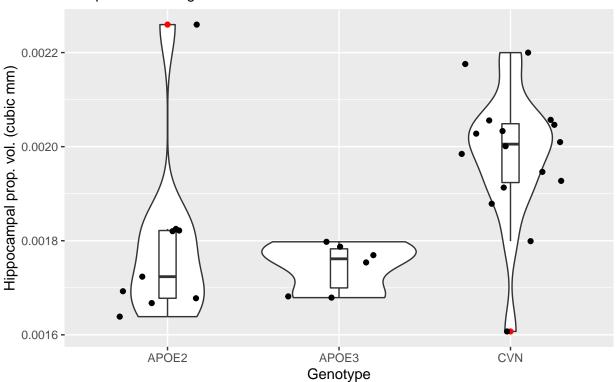
Distributions of cingulate cortex area 24a' proportional volumes by genoty Red points denoting outliers



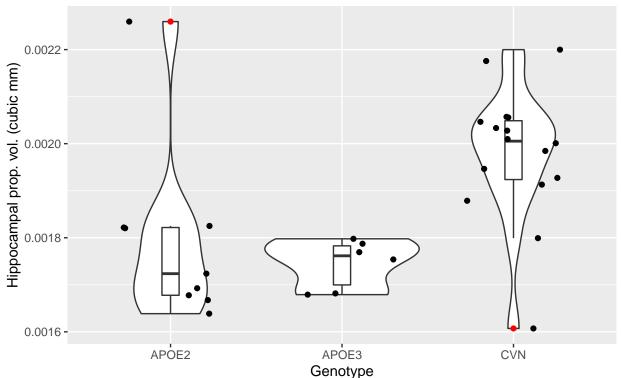
Distributions of cingulate cortex area 24a proportional volumes by genoty Red points denoting outliers



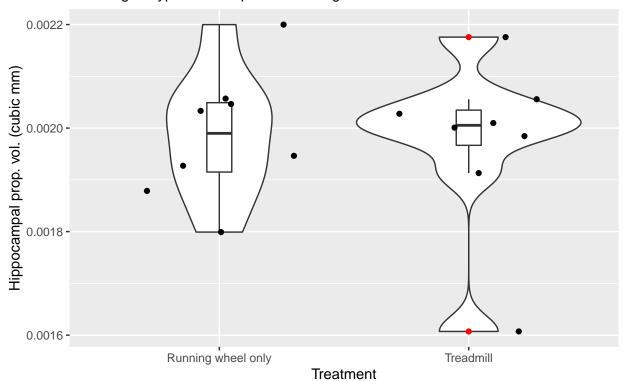
Genotype
Distributions of hippocampal proportional volumes by genotype
Red points denoting outliers



#### Distributions of hippocampal proportional volumes by genotype Red points denoting outliers



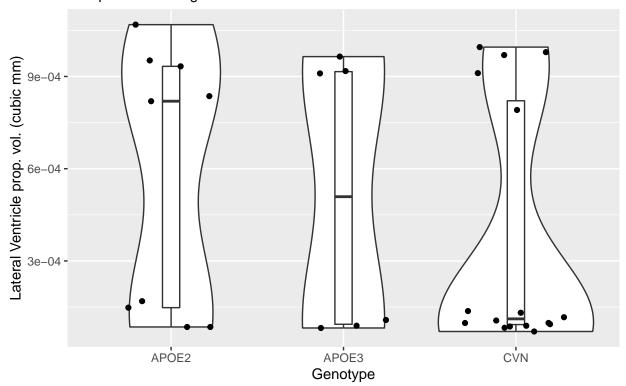
Distributions of hippocampal proportional volumes by treatment In CVN genotype with red points denoting outliers



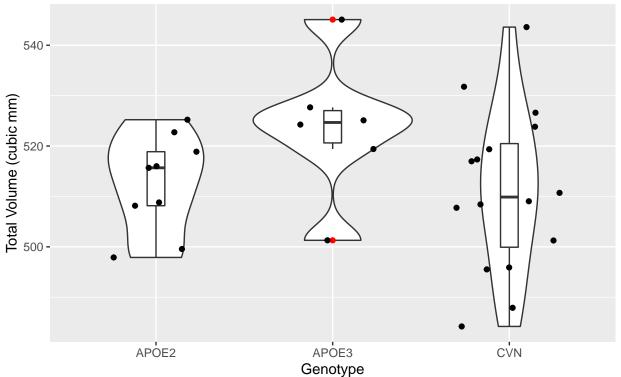
##

```
## 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

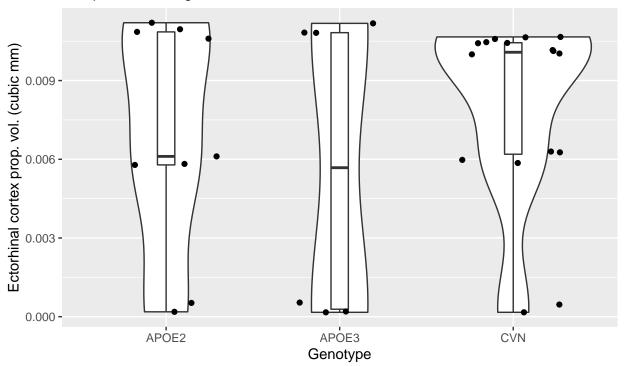


# Distributions of total brain volumes by genotype Red points denoting outliers

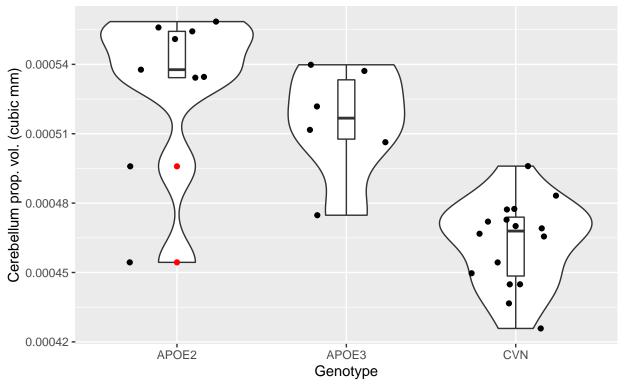


Distributions of ectorhinal cortex proportional volumes by genotype

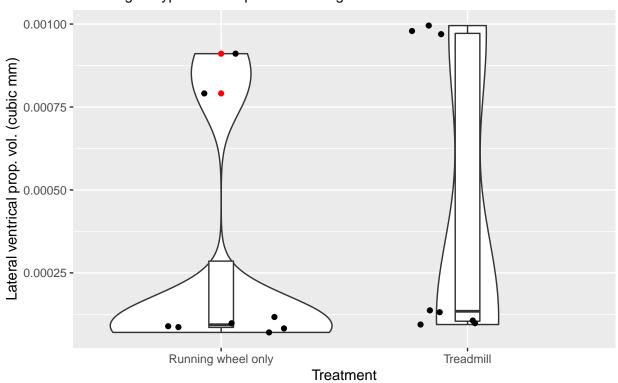
Red points denoting outliers



# Distributions of cerebellum proportional volumes by genotype Red points denoting outliers

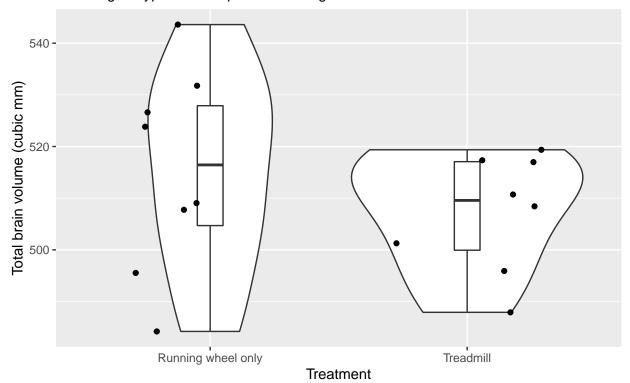


Distributions of lateral ventrical proportional volumes by treatment In CVN genotype with red points denoting outliers



```
##
## 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
```

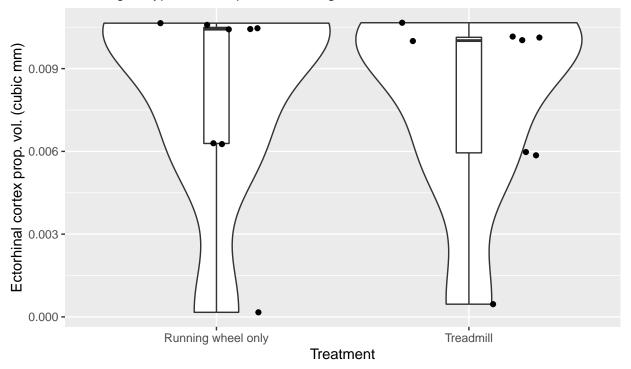
### Distributions of total brain volumes volumes by treatment In CVN genotype with red points denoting outliers



```
##
## 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
```

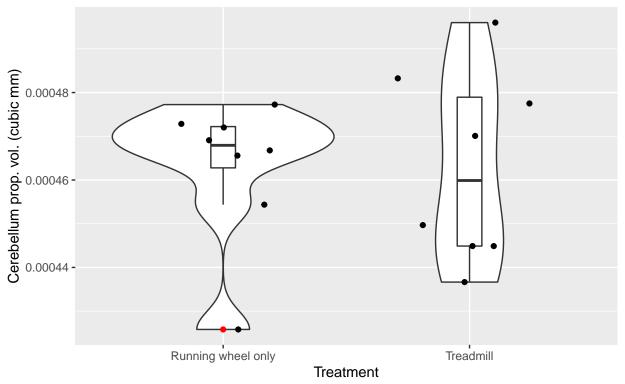
### Distributions of ectorhinal cortex proportional volumes volumes by treatment

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
```