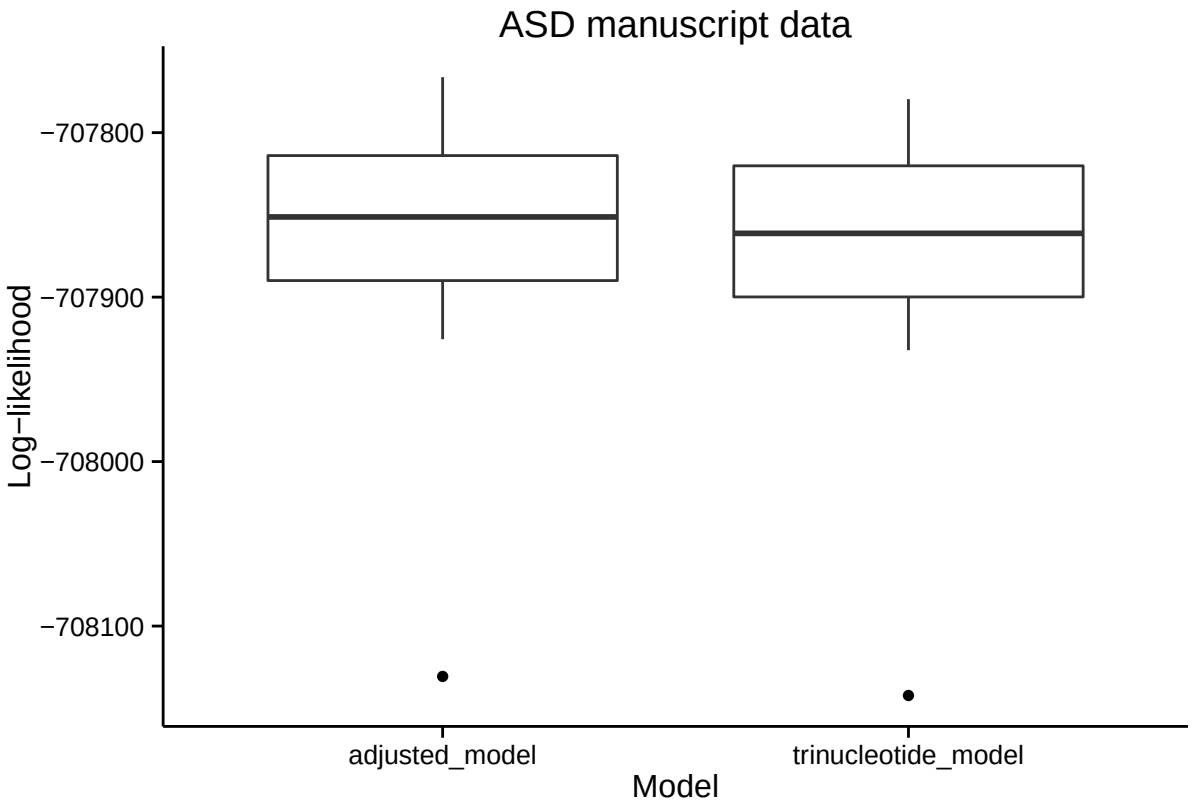
```
library(ggplot2)
getwd()
```

```
## [1] "/media/yuwen/F/ASD/analysis"
```

```
knitr::opts_chunk$set(warning=FALSE, message=FALSE)
```

manuscript ASD data



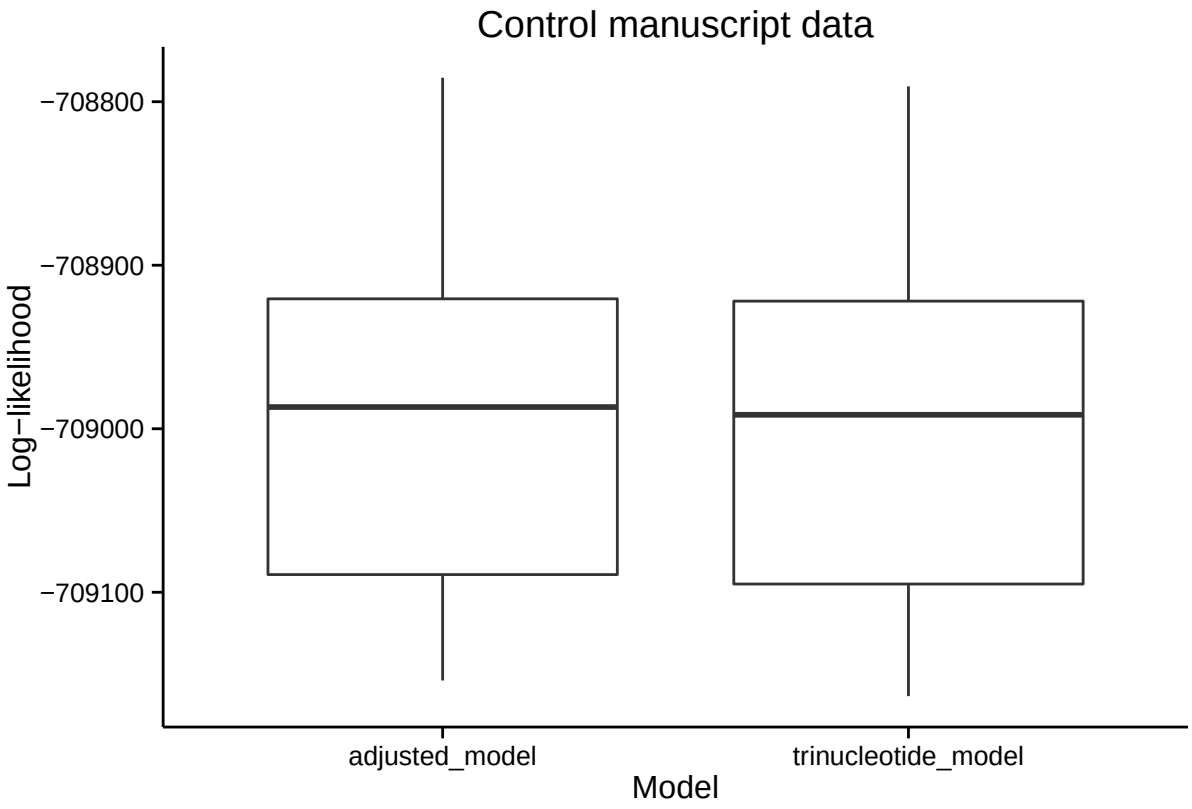

```
##
##  Wilcoxon signed rank test
##
## data:  ASD_model_manuscript_loglikelihood[, 1] and ASD_model_manuscript_loglikelihood[, 2]
## V = 55, p-value = 0.001953
## alternative hypothesis: true location shift is not equal to 0
```

```
##       model1 model_null
## 1  -707813.6  -707817.3
## 2  -707890.5  -707901.5
## 3  -707766.3  -707779.7
## 4  -707809.9  -707818.2
## 5  -707888.4  -707895.0
## 6  -707880.1  -707887.9
## 7  -707925.6  -707932.3
## 8  -707822.4  -707834.6
```

```
## 9  -707815.1  -707826.1
## 10 -708130.6  -708142.2
```

```
## [1] 10
```

manuscript control data

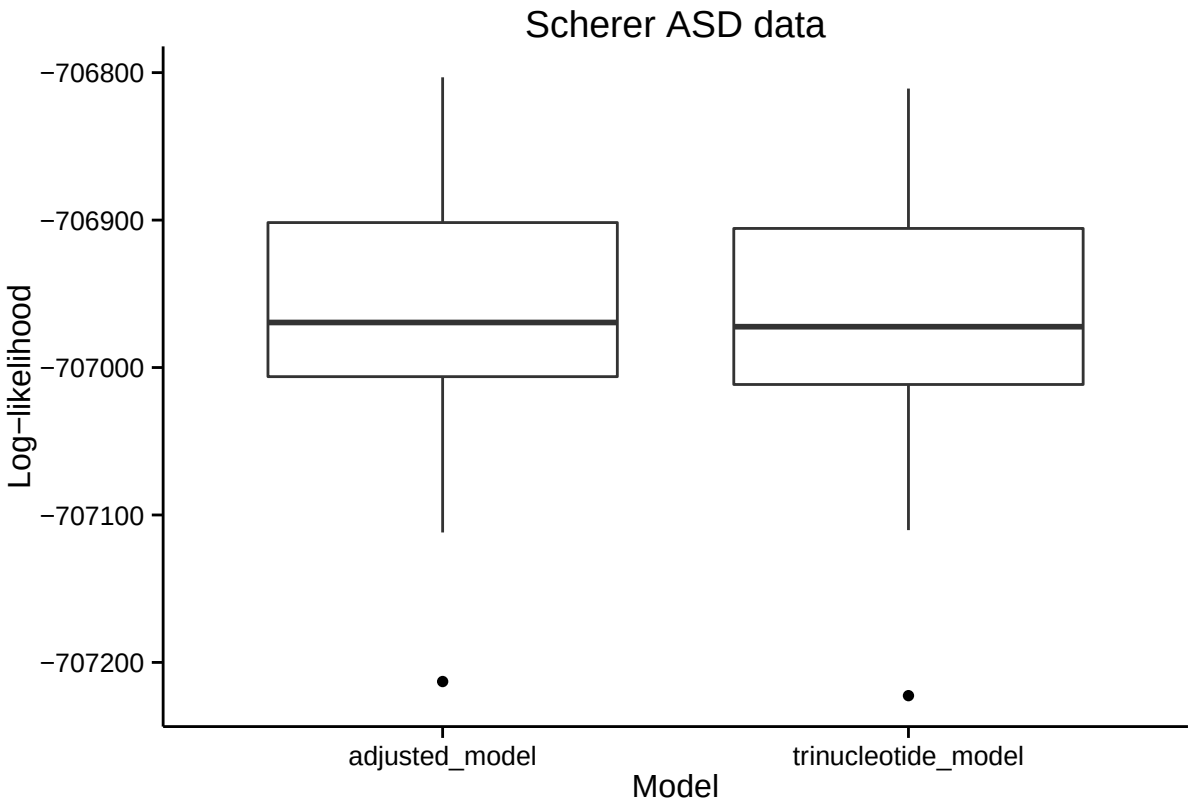



```
##
##  Wilcoxon signed rank test
##
## data:  control_model_693_loglikelihood[, 1] and control_model_693_loglikelihood[, 2]
## V = 54, p-value = 0.003906
## alternative hypothesis: true location shift is not equal to 0
```

```
##       model1 model_null
## 1  -708920.8  -708921.7
## 2  -708952.2  -708957.3
## 3  -709102.7  -709107.5
## 4  -709048.6  -709057.2
## 5  -708863.5  -708863.3
## 6  -709021.2  -709025.6
## 7  -708785.4  -708790.6
## 8  -709120.0  -709124.6
## 9  -708920.5  -708922.8
## 10 -709154.0  -709163.5
```

```
## [1] 9
```

Scherer ASD data

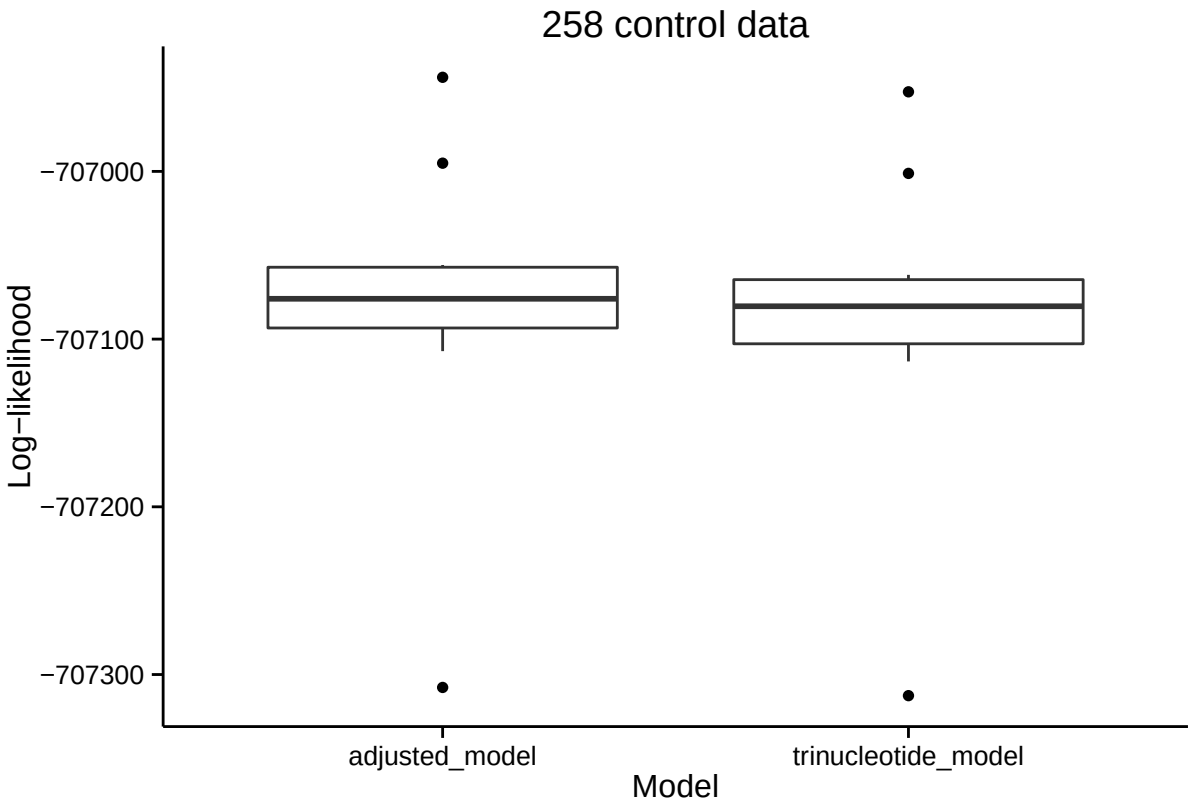



```
##
##  Wilcoxon signed rank test
##
## data:  ASD_model_Scherer_loglikelihood[, 1] and ASD_model_Scherer_loglikelihood[, 2]
## V = 53, p-value = 0.005859
## alternative hypothesis: true location shift is not equal to 0
```

```
##       model1 model_null
## 1  -707014.4  -707019.8
## 2  -706893.9  -706896.9
## 3  -706981.5  -706986.7
## 4  -706925.0  -706931.9
## 5  -706959.7  -706964.7
## 6  -707111.9  -707110.3
## 7  -706876.5  -706878.8
## 8  -706803.2  -706810.8
## 9  -707213.0  -707222.5
## 10 -706979.2  -706979.9
```

```
## [1] 9
```

Control 258 data



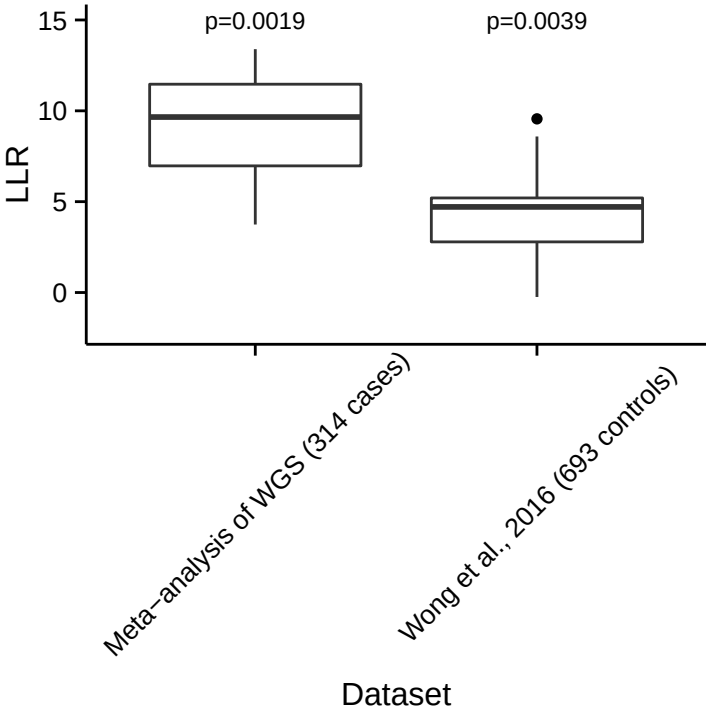

```
##
##  Wilcoxon signed rank test
##
## data:  control_model_258_loglikelihood[, 1] and control_model_258_loglikelihood[, 2]
## V = 55, p-value = 0.001953
## alternative hypothesis: true location shift is not equal to 0
```

```
##       model1 model_null
## 1  -707094.9  -707103.9
## 2  -707107.2  -707113.3
## 3  -706995.1  -707001.2
## 4  -707055.8  -707061.7
## 5  -707068.1  -707074.0
## 6  -707083.8  -707086.8
## 7  -707307.7  -707312.6
## 8  -707088.8  -707099.6
## 9  -706943.9  -706952.5
## 10 -707061.1  -707073.1
```

```
## [1] 10
```

boxplot of difference of test

boxplot of difference of test



boxplot of difference of test