title: “Of mice” author: “Michel de Lange” date: “10/16/2017” output: html_document —

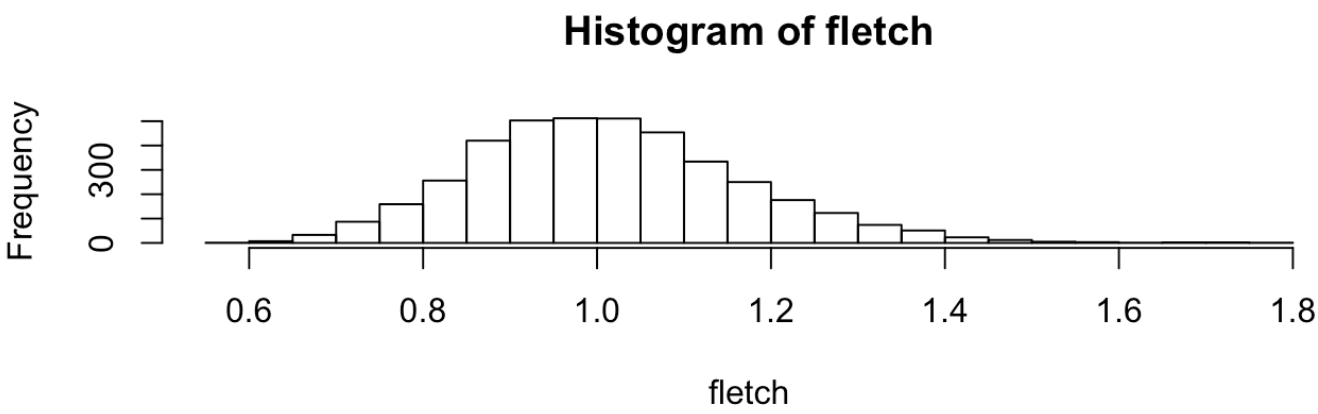
Of mice

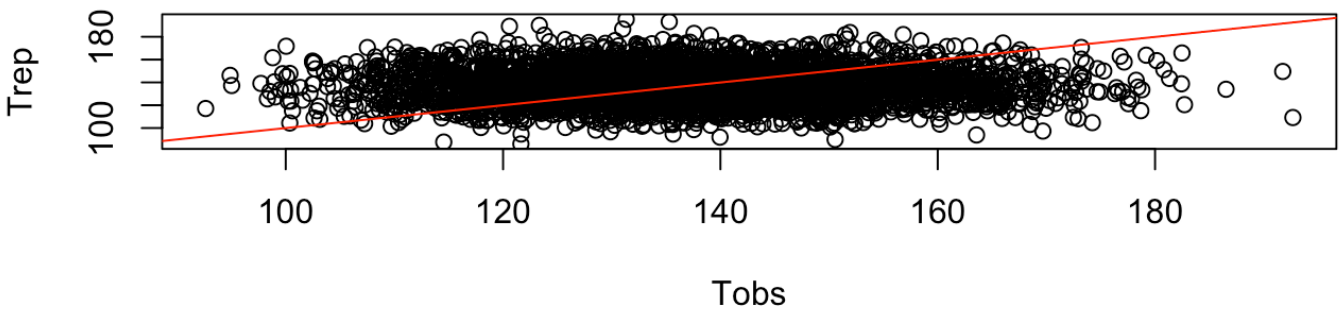
All mice cell types. bonferroni correction is TRUE

```
## [1] NA
```

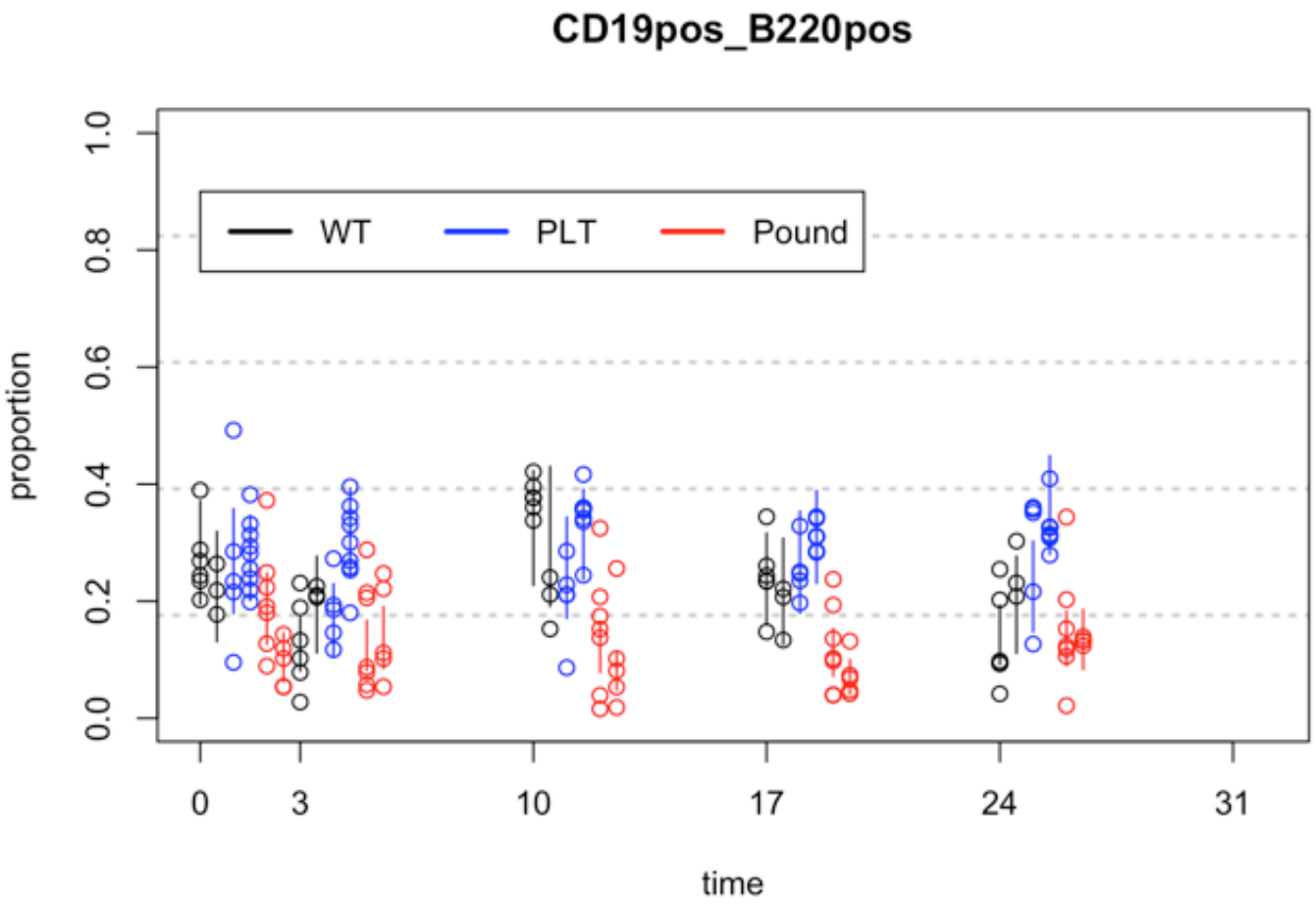
1 CD19pos_B220pos

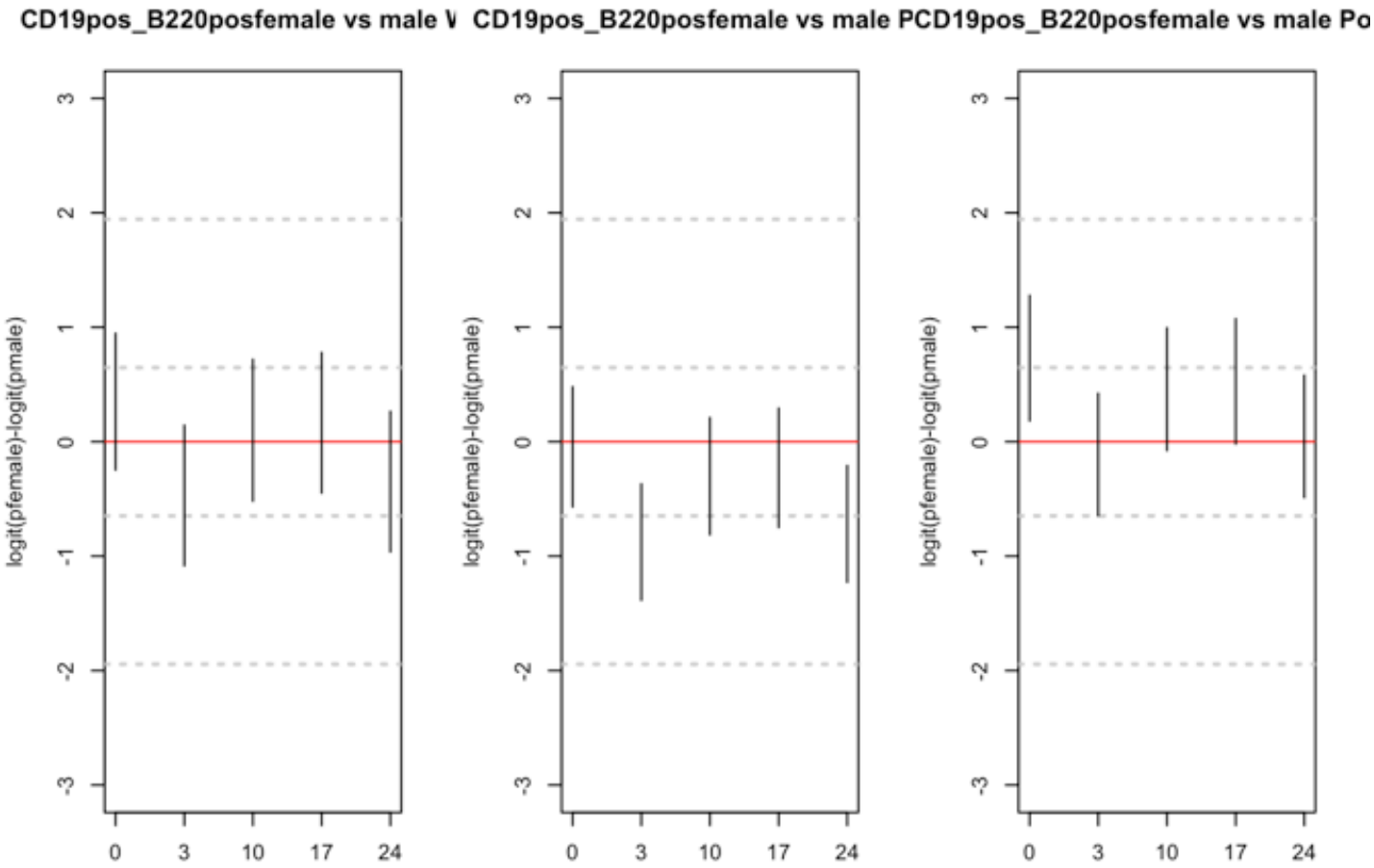
```
## Compiling model graph
##    Resolving undeclared variables
##    Allocating nodes
## Graph information:
##    Observed stochastic nodes: 175
##    Unobserved stochastic nodes: 414
##    Total graph size: 2930
##
## Initializing model
```



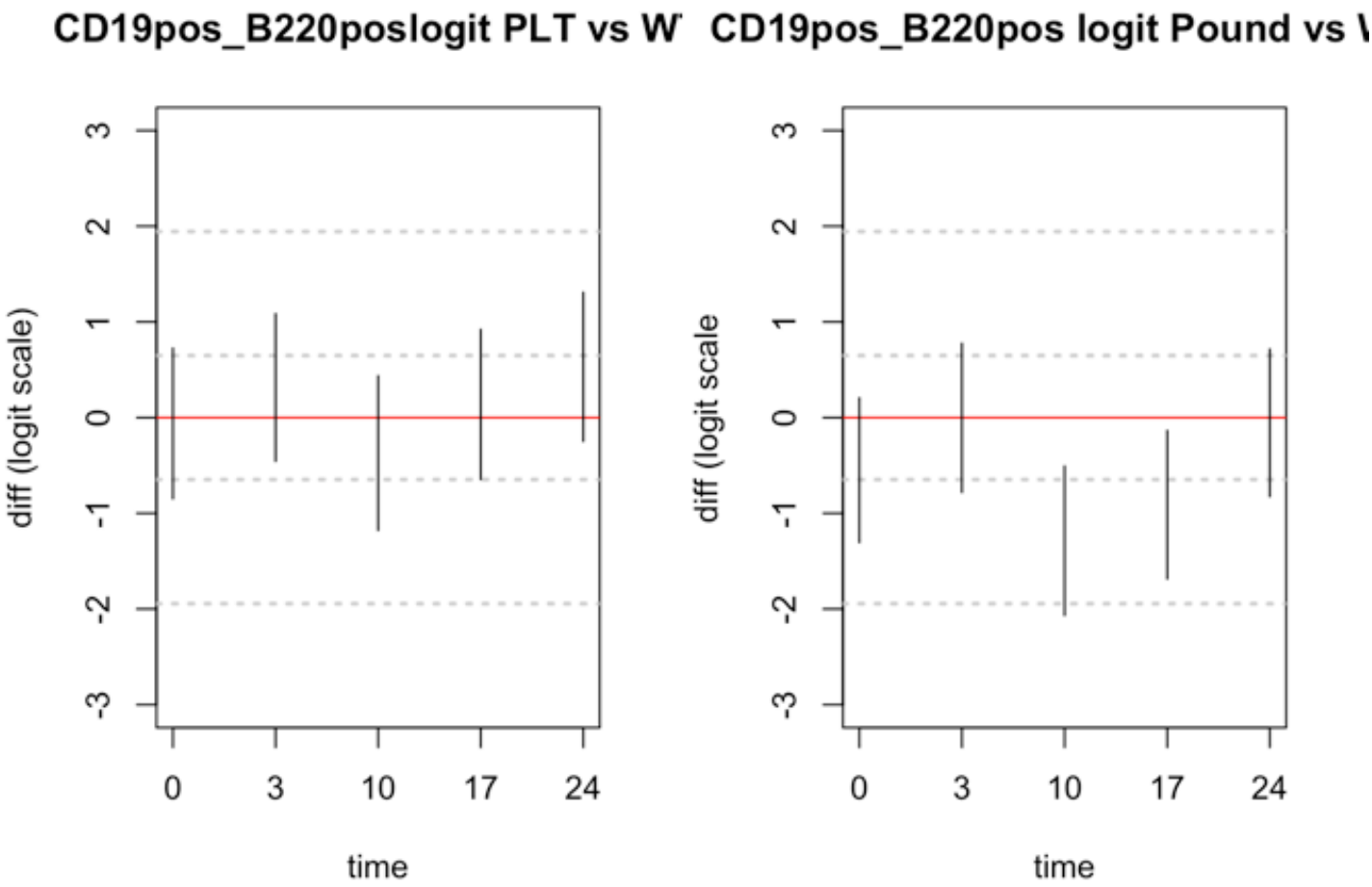


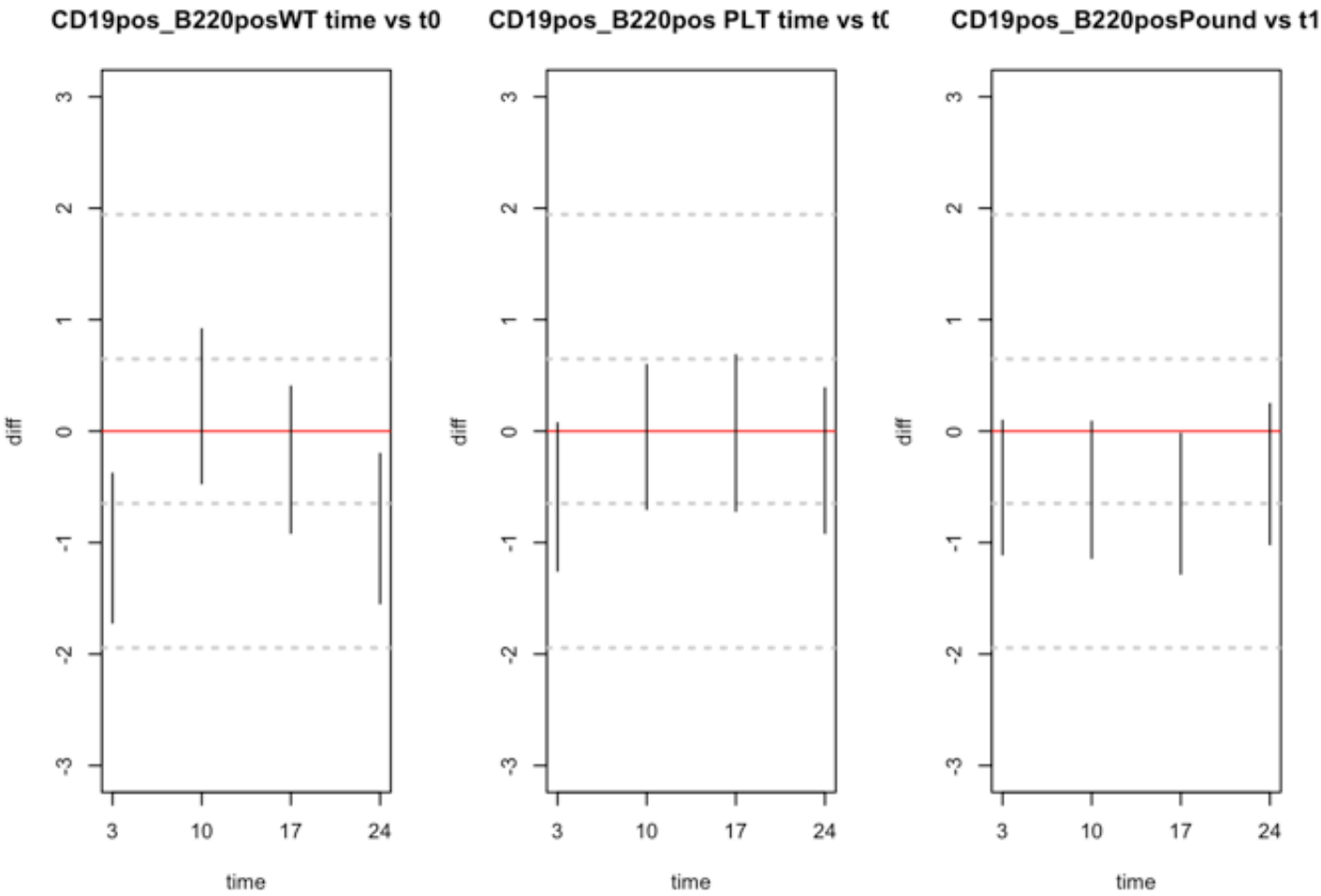
```
## [1] "got posteriors"
```


CD19pos_B220pos
WT
PLT
Pound
proportion
0.0
0.2
0.4
0.6
0.8
1.0
0
3
10
17
24
31
time


CD19pos_B220posfemale vs male W
CD19pos_B220posfemale vs male P
CD19pos_B220posfemale vs male Po
logit(pfemale)-logit(pmale)
3
2
1
0
-1
-2
-3
0
3
10
17
24

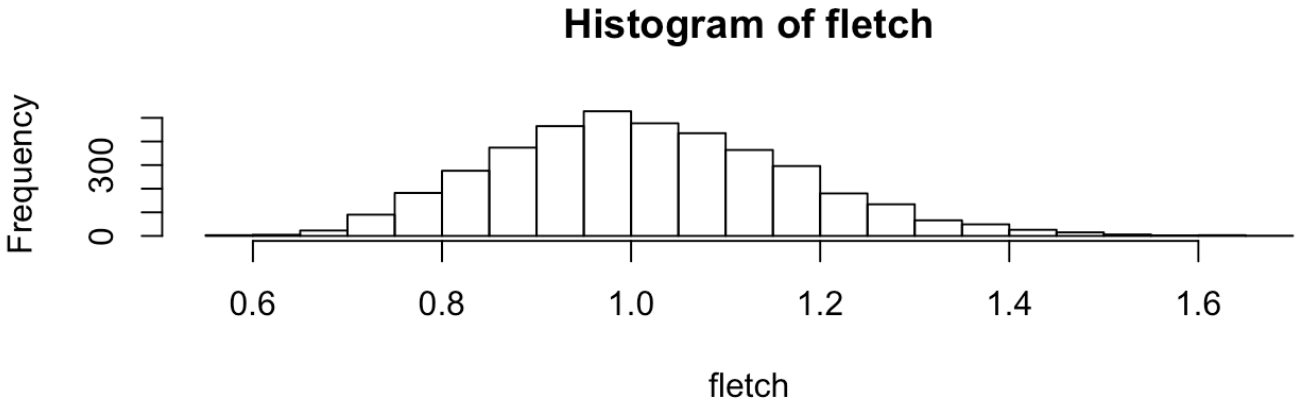
time time time

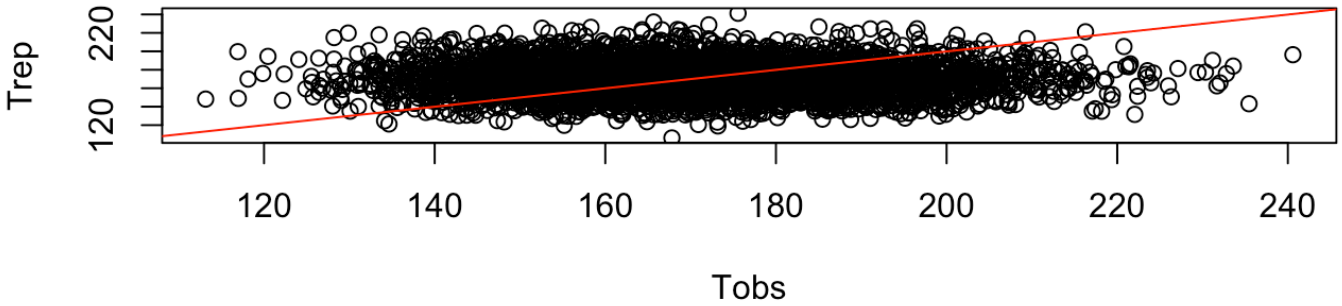




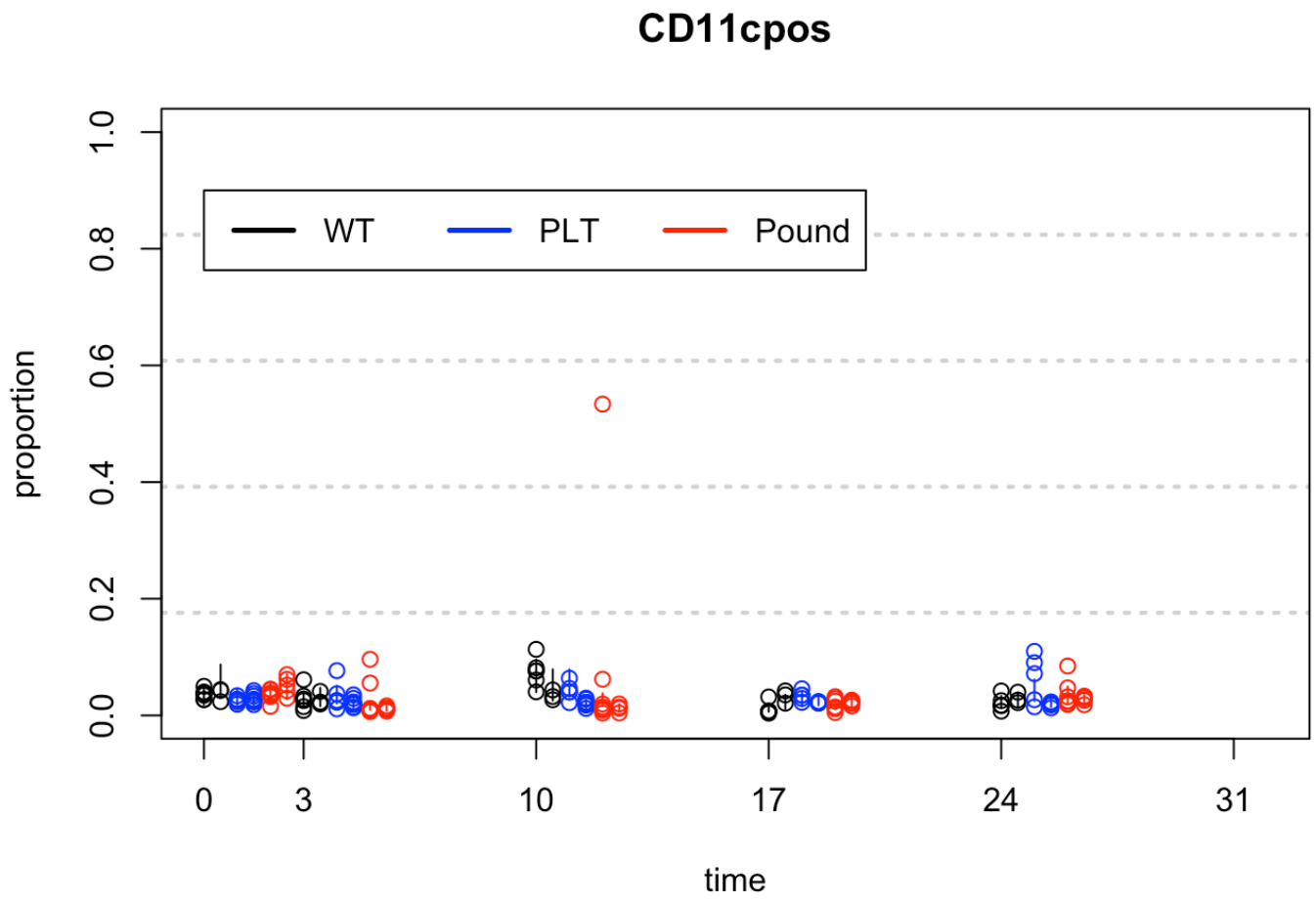
2 “CD11cpos”

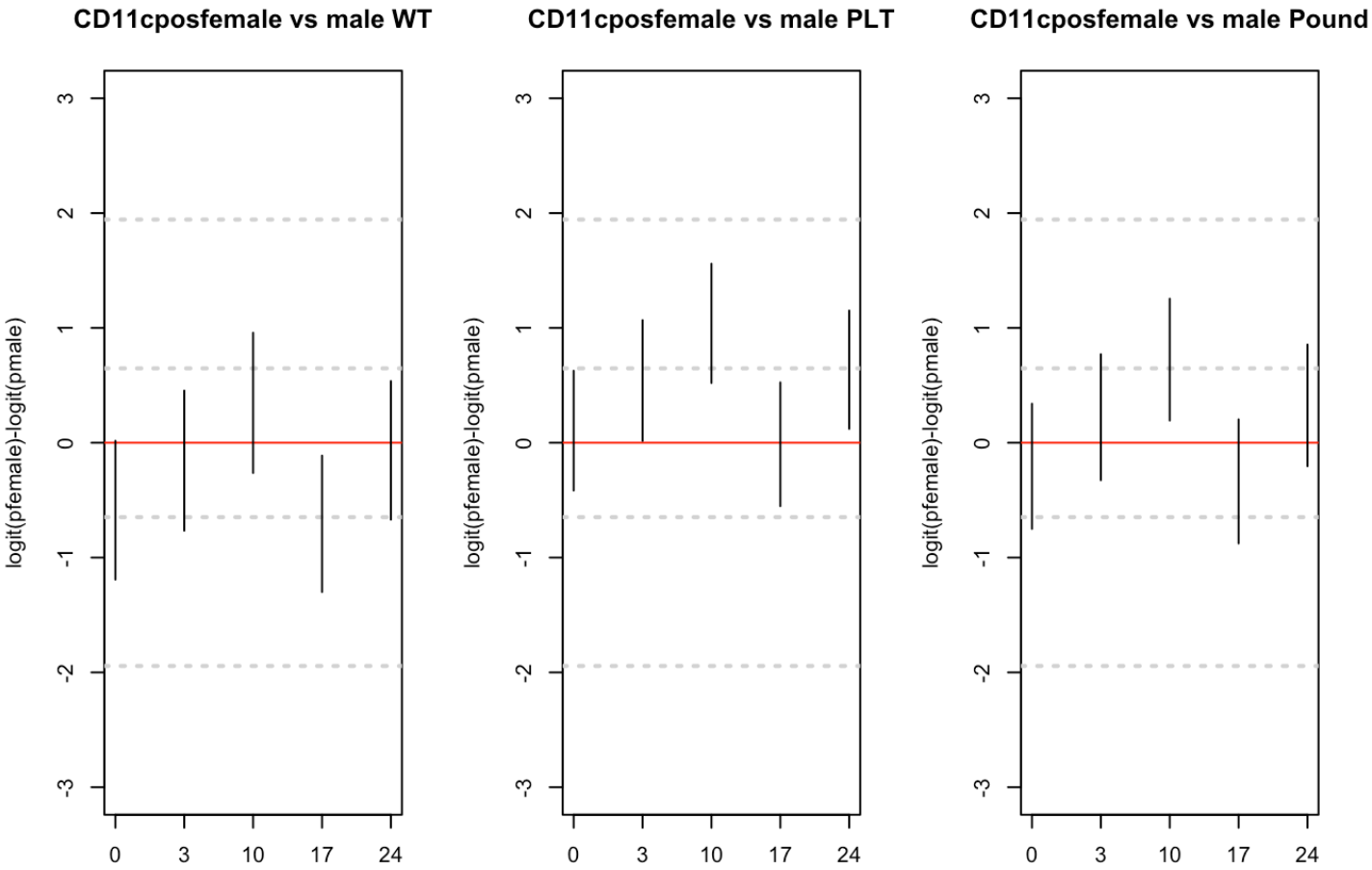
```
## Compiling model graph
##    Resolving undeclared variables
##    Allocating nodes
## Graph information:
##    Observed stochastic nodes: 175
##    Unobserved stochastic nodes: 414
##    Total graph size: 2930
##
## Initializing model
```



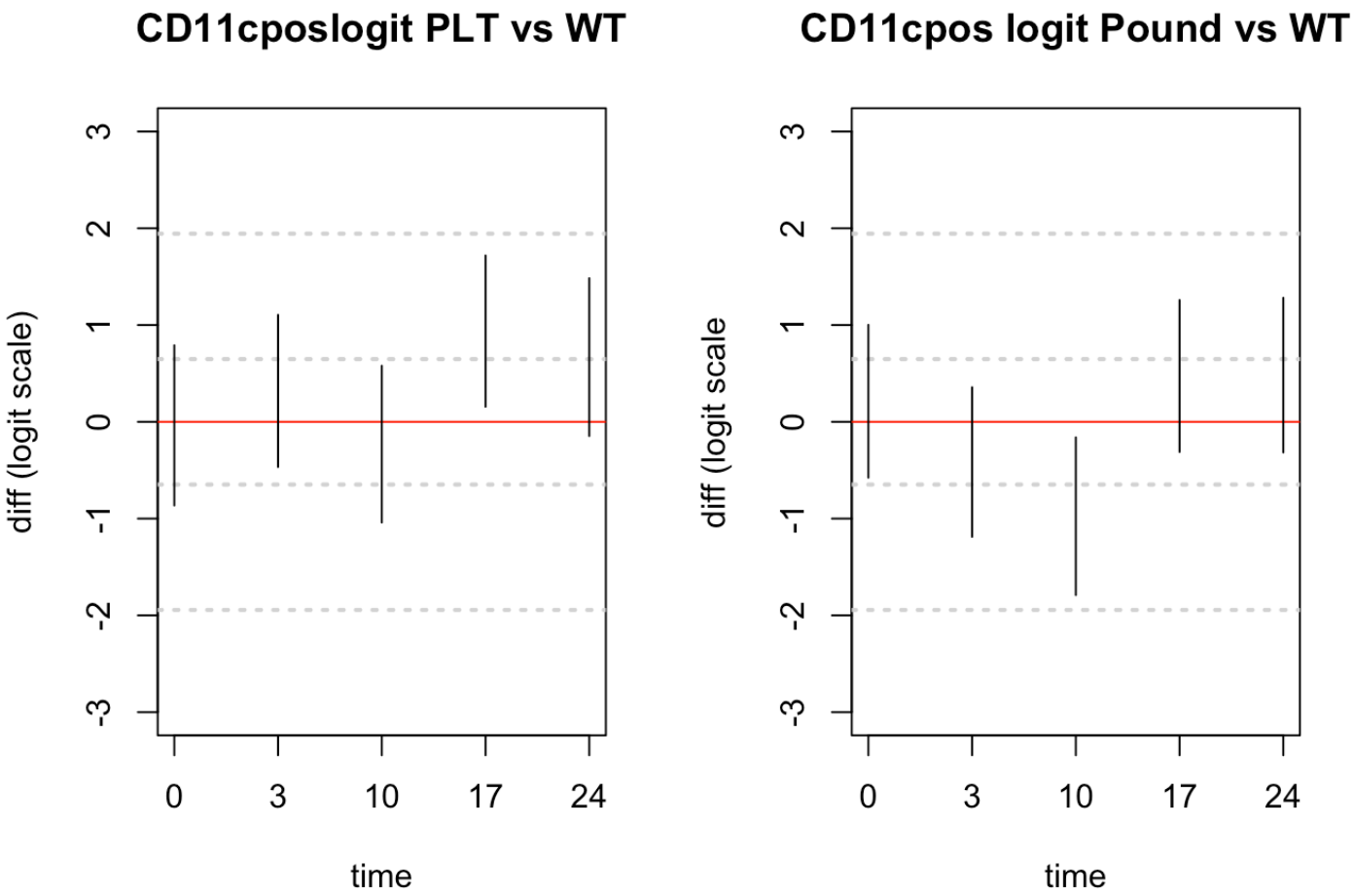


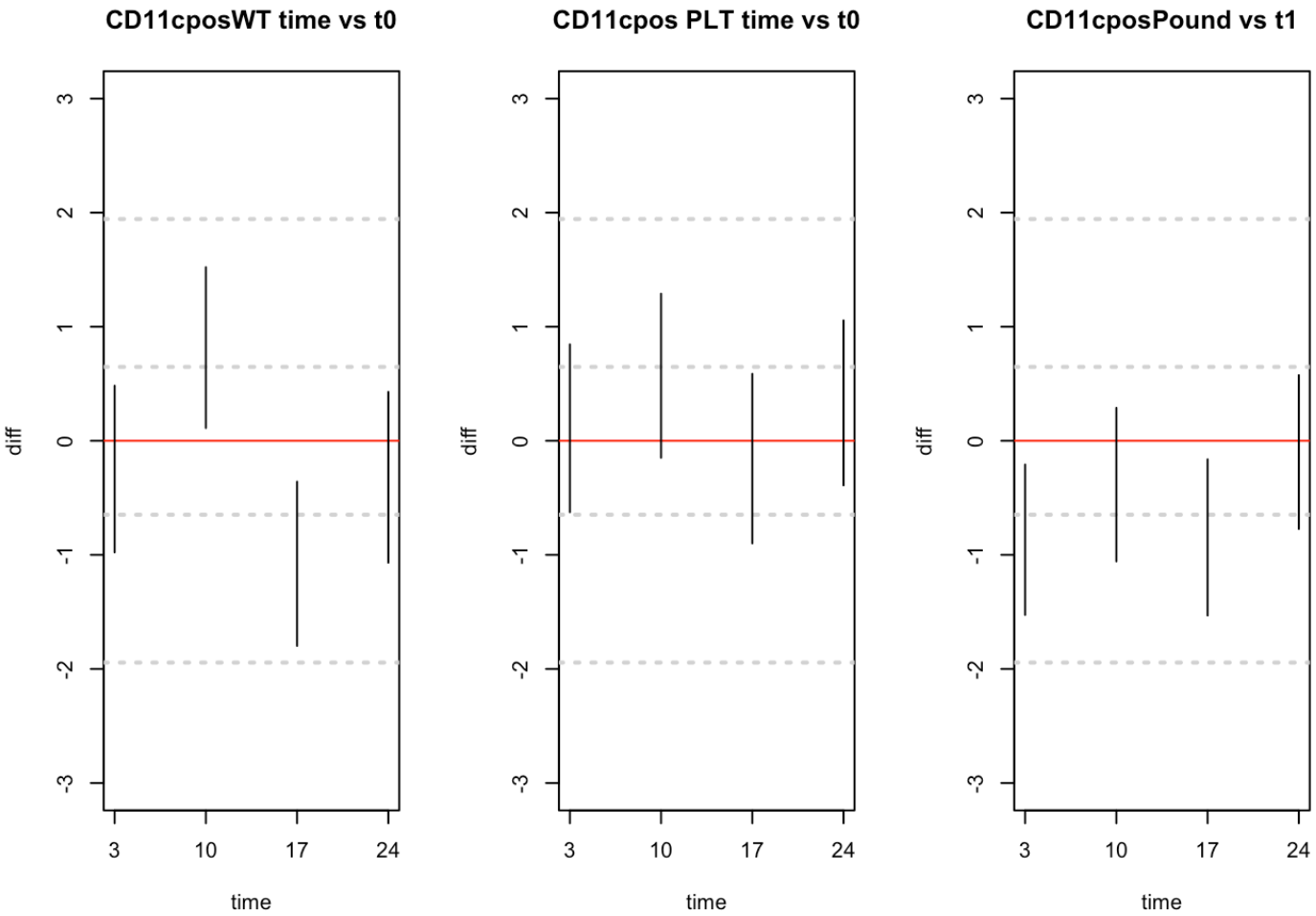

```
## [1] "got posteriors"
```


CD11cpos
WT
PLT
Pound
proportion
0.0
0.2
0.4
0.6
0.8
1.0
0
3
10
17
24
31
time


CD11cposfemale vs male WT
CD11cposfemale vs male PLT
CD11cposfemale vs male Pound
logit(pfemale)-logit(pmale)
-3
-2
-1
0
1
2
3
0
3
10
17
24

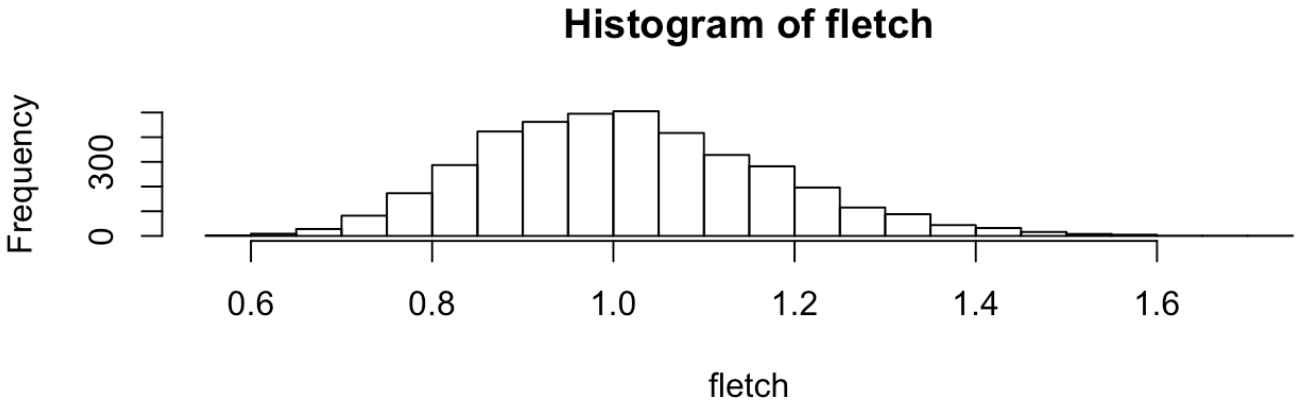
time time time

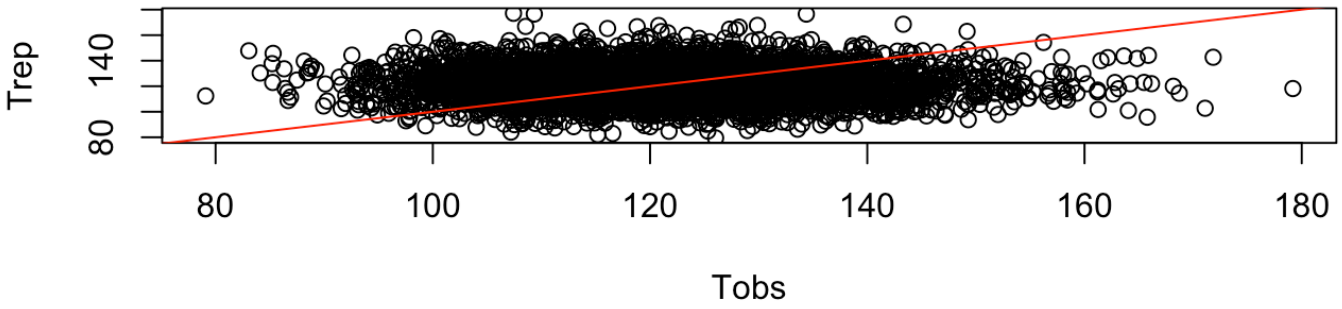




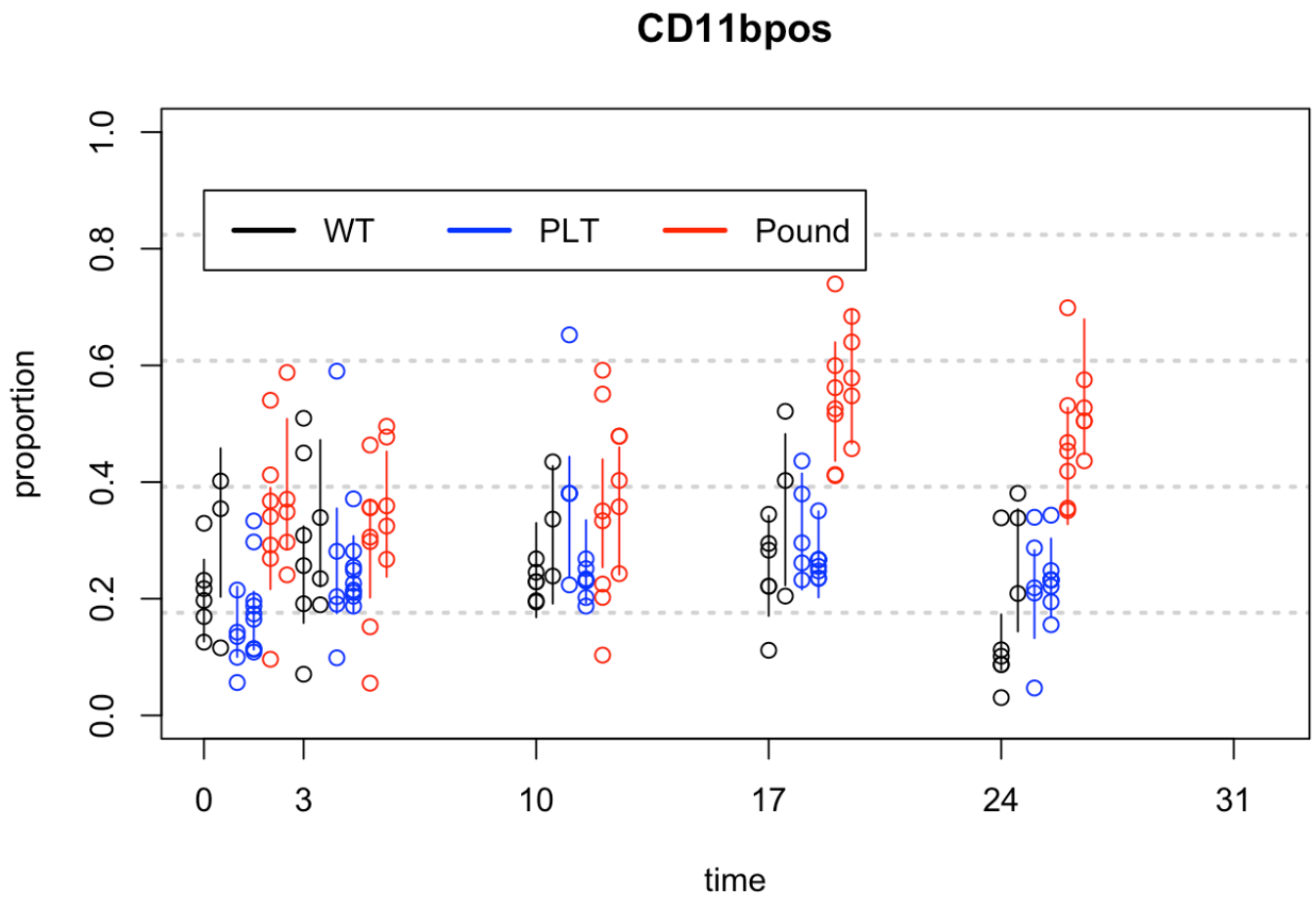
3 “CD11bpos”

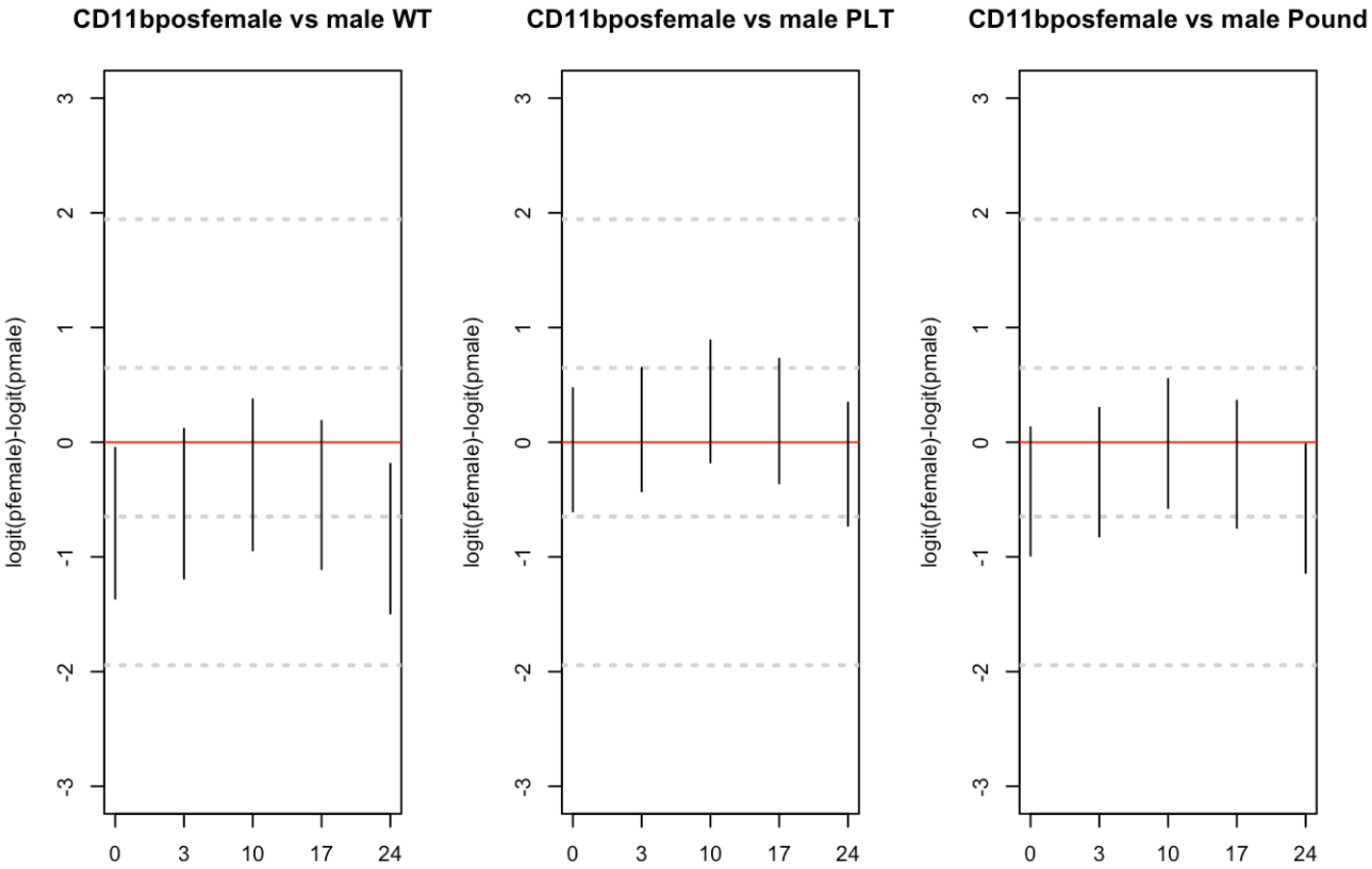
```
## Compiling model graph
##    Resolving undeclared variables
##    Allocating nodes
## Graph information:
##    Observed stochastic nodes: 175
##    Unobserved stochastic nodes: 414
##    Total graph size: 2930
##
## Initializing model
```






```
## [1] "got posteriors"
```

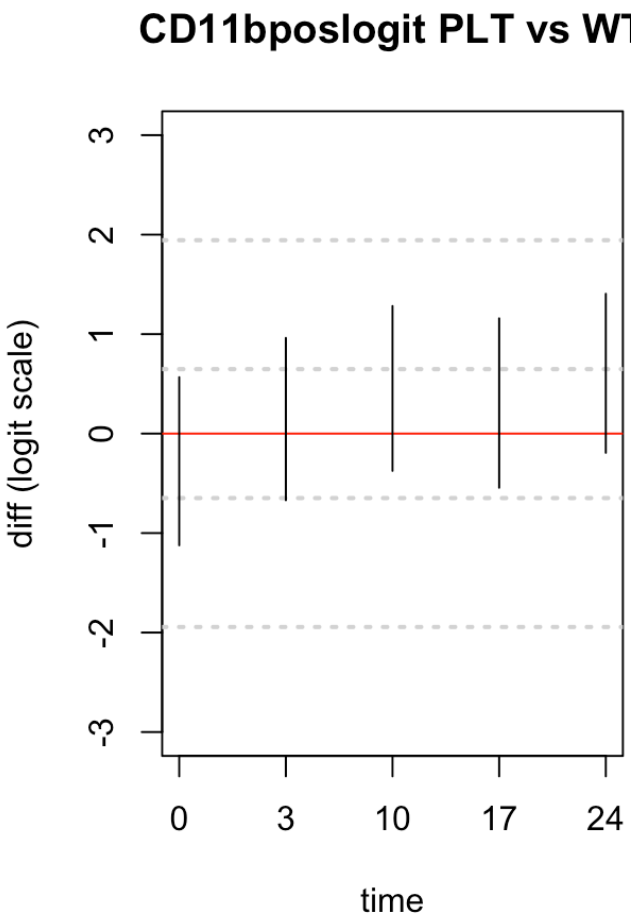

CD11bpos
WT
PLT
Pound
proportion
0.0
0.2
0.4
0.6
0.8
1.0
0
3
10
17
24
31
time

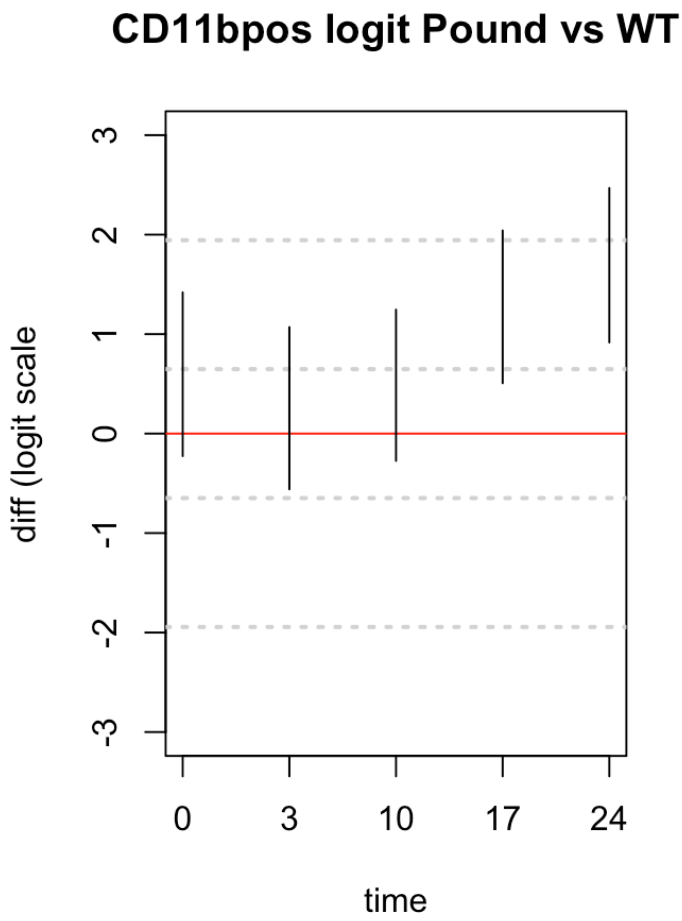

CD11bposfemale vs male WT
CD11bposfemale vs male PLT
CD11bposfemale vs male Pound
logit(pfemale)-logit(pmale)
3
2
1
0
-1
-2
-3
0
3
10
17
24

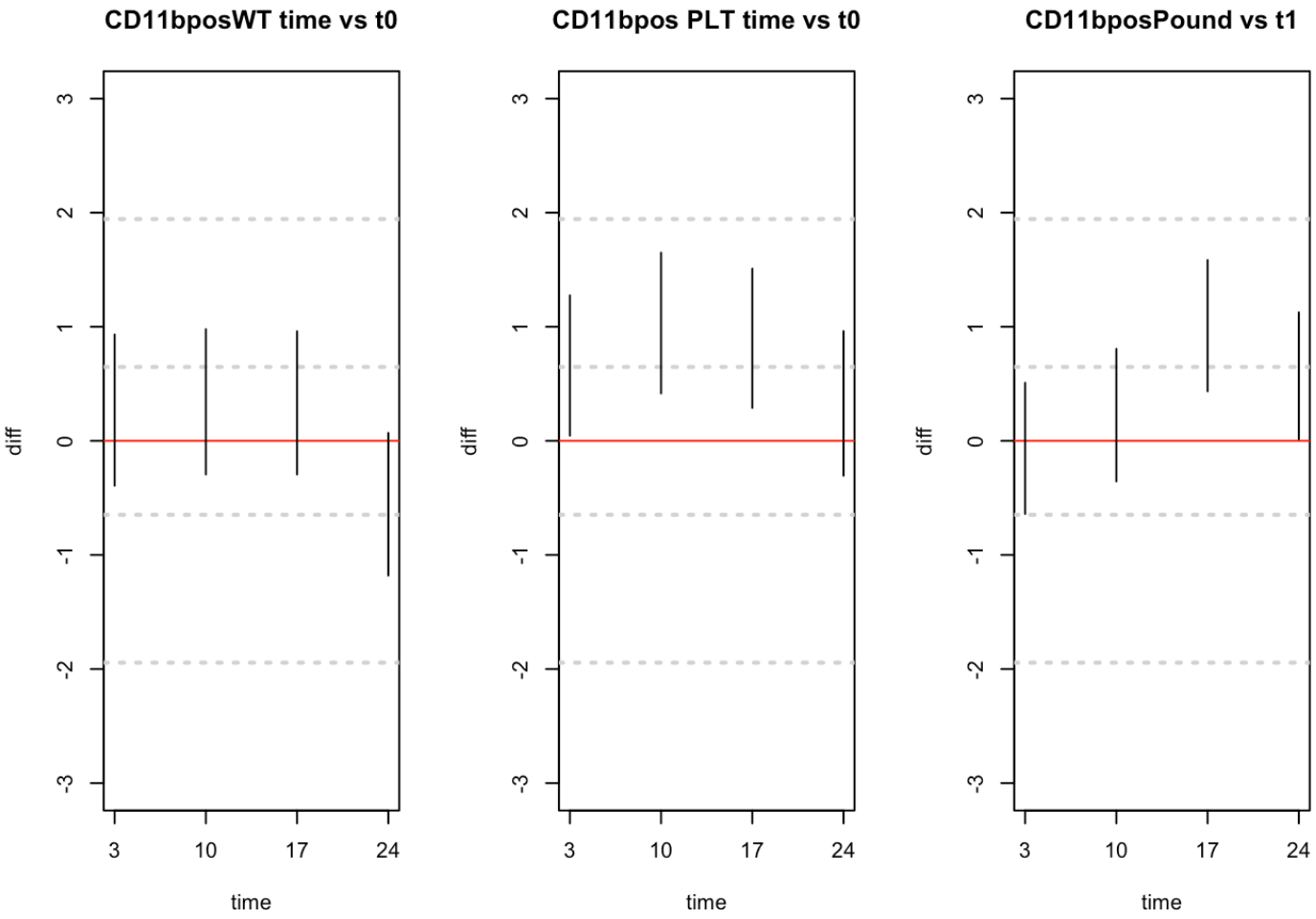
time

time

time

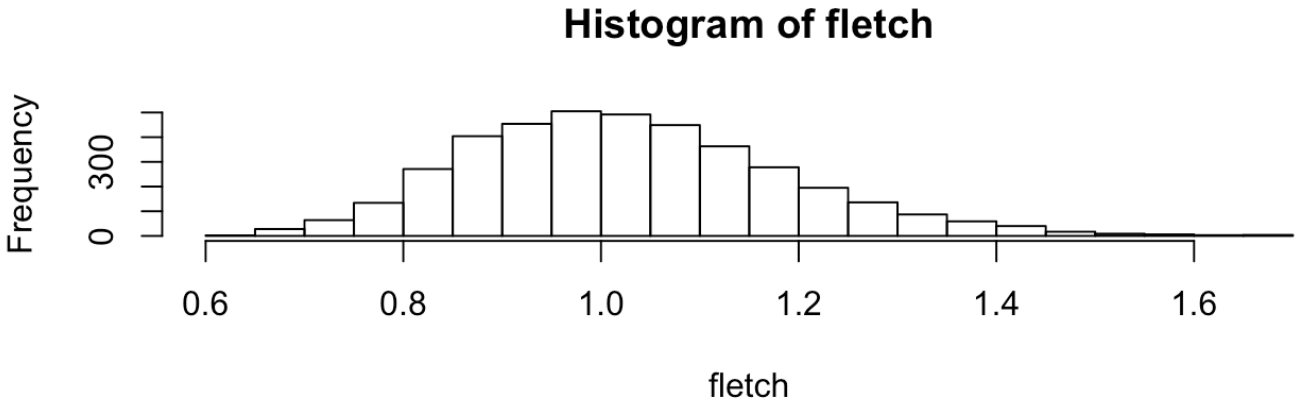


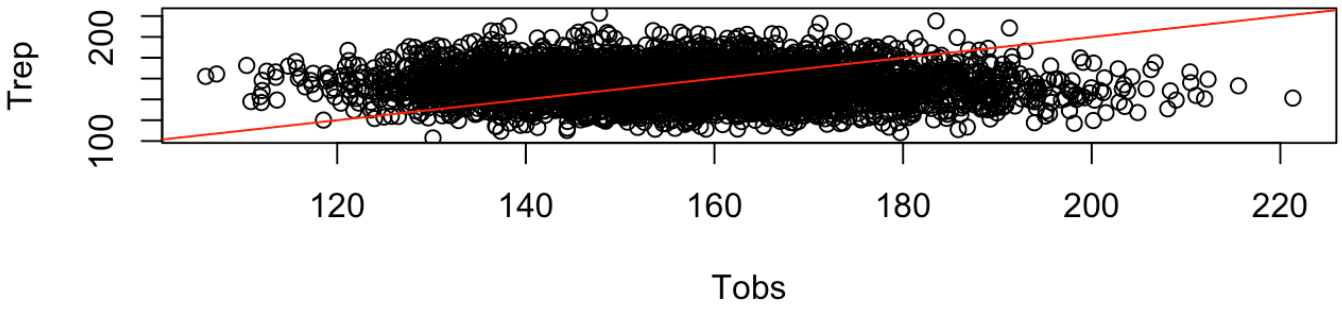




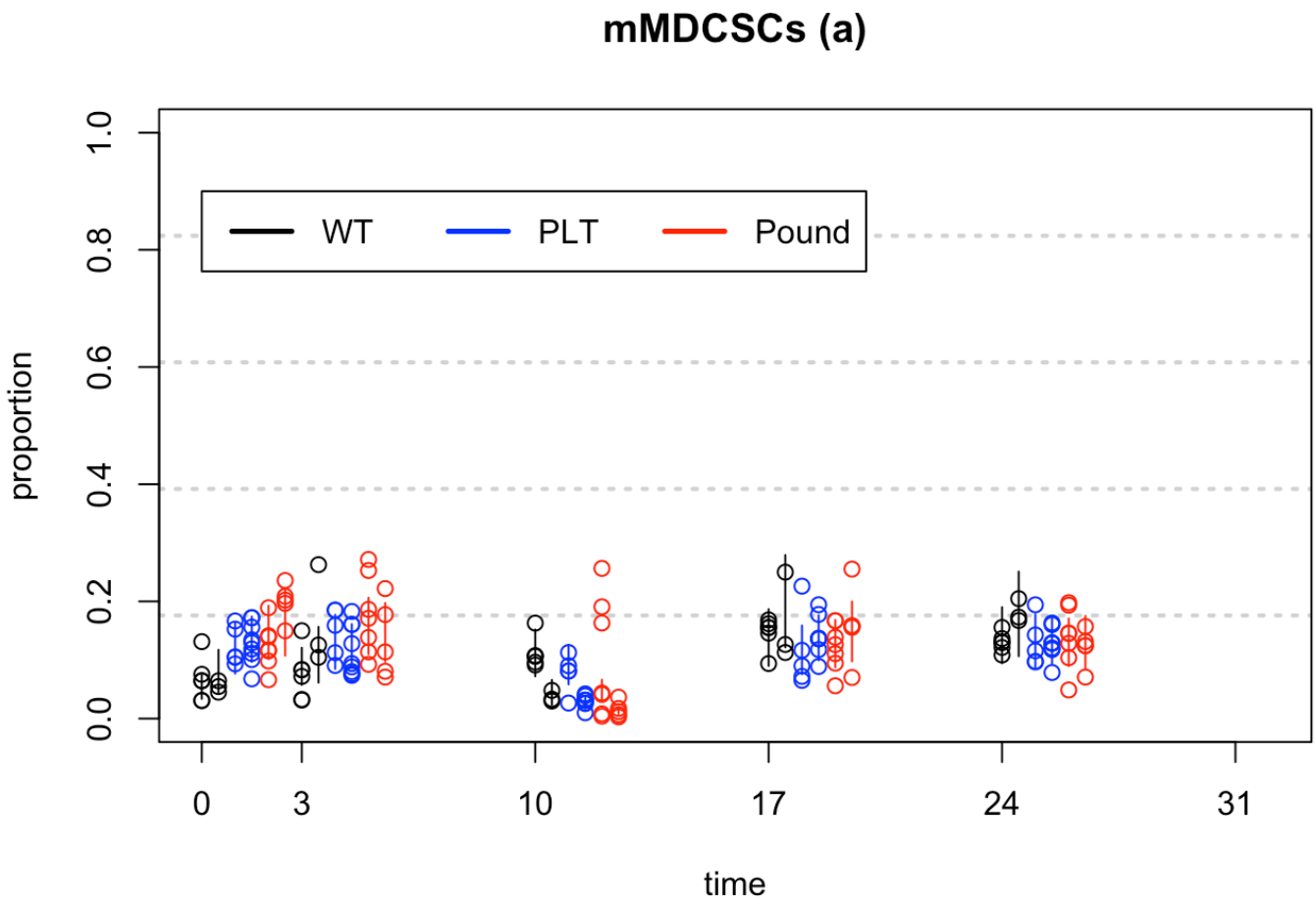
4A “mMDCSC as proportion of CD11bpos”

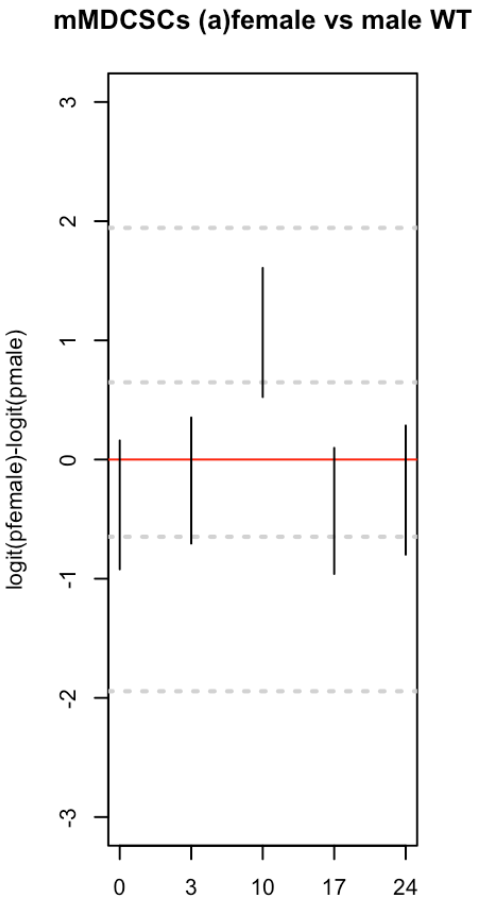
```
## Compiling model graph
##    Resolving undeclared variables
##    Allocating nodes
## Graph information:
##    Observed stochastic nodes: 175
##    Unobserved stochastic nodes: 414
##    Total graph size: 2930
##
## Initializing model
```

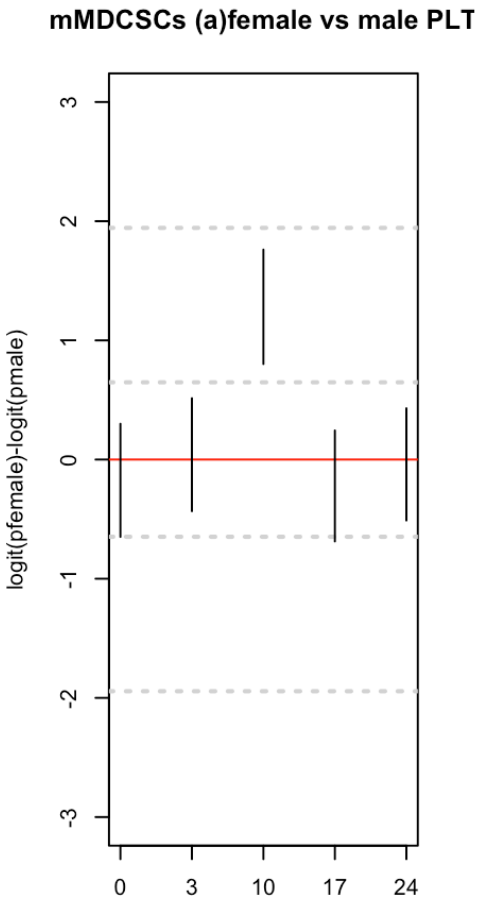


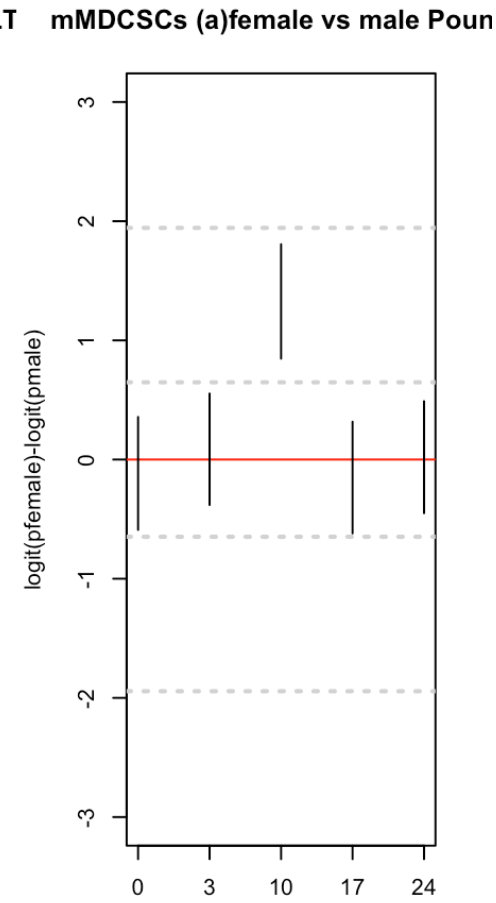



```
## [1] "got posteriors"
```

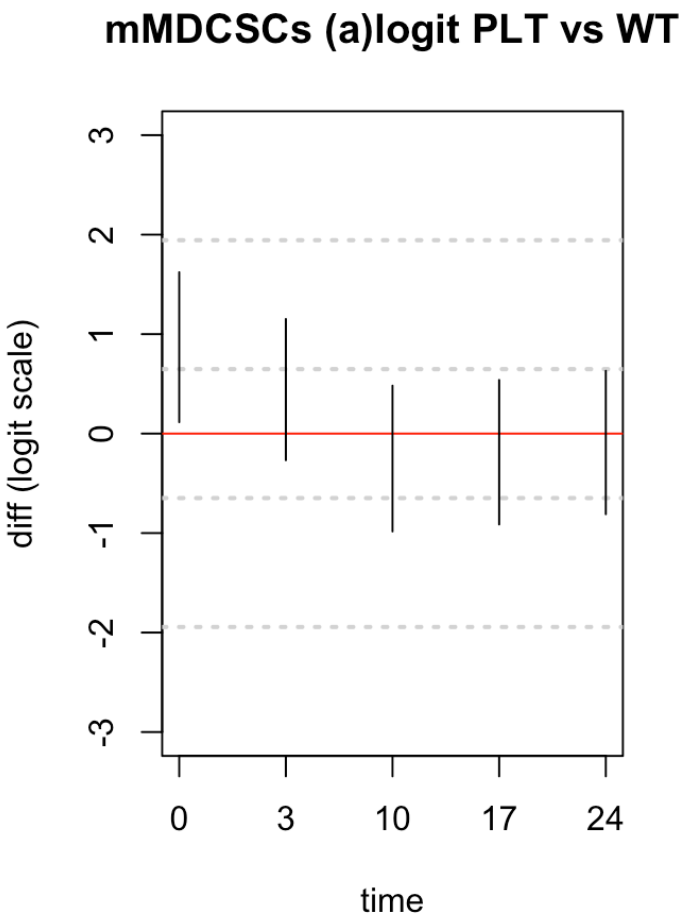

mMDCSCs (a)
WT
PLT
Pound
proportion
0.0
0.2
0.4
0.6
0.8
1.0
0
3
10
17
24
31
time

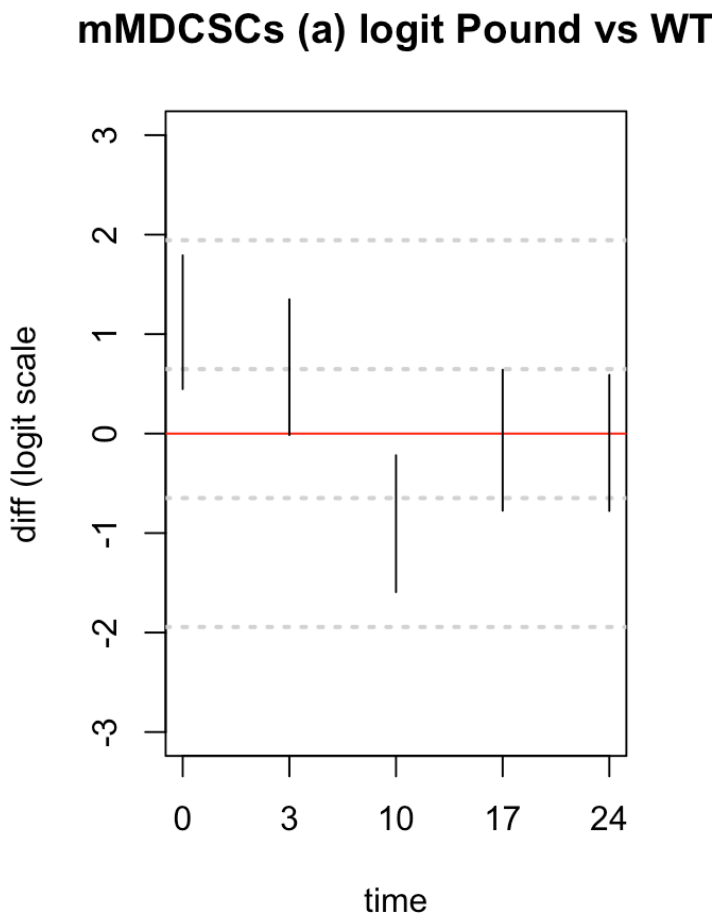

mMDCSCs (a)female vs male WT
logit(pfemale)-logit(pmale)
3
2
1
0
-1
-2
-3
0
3
10
17
24

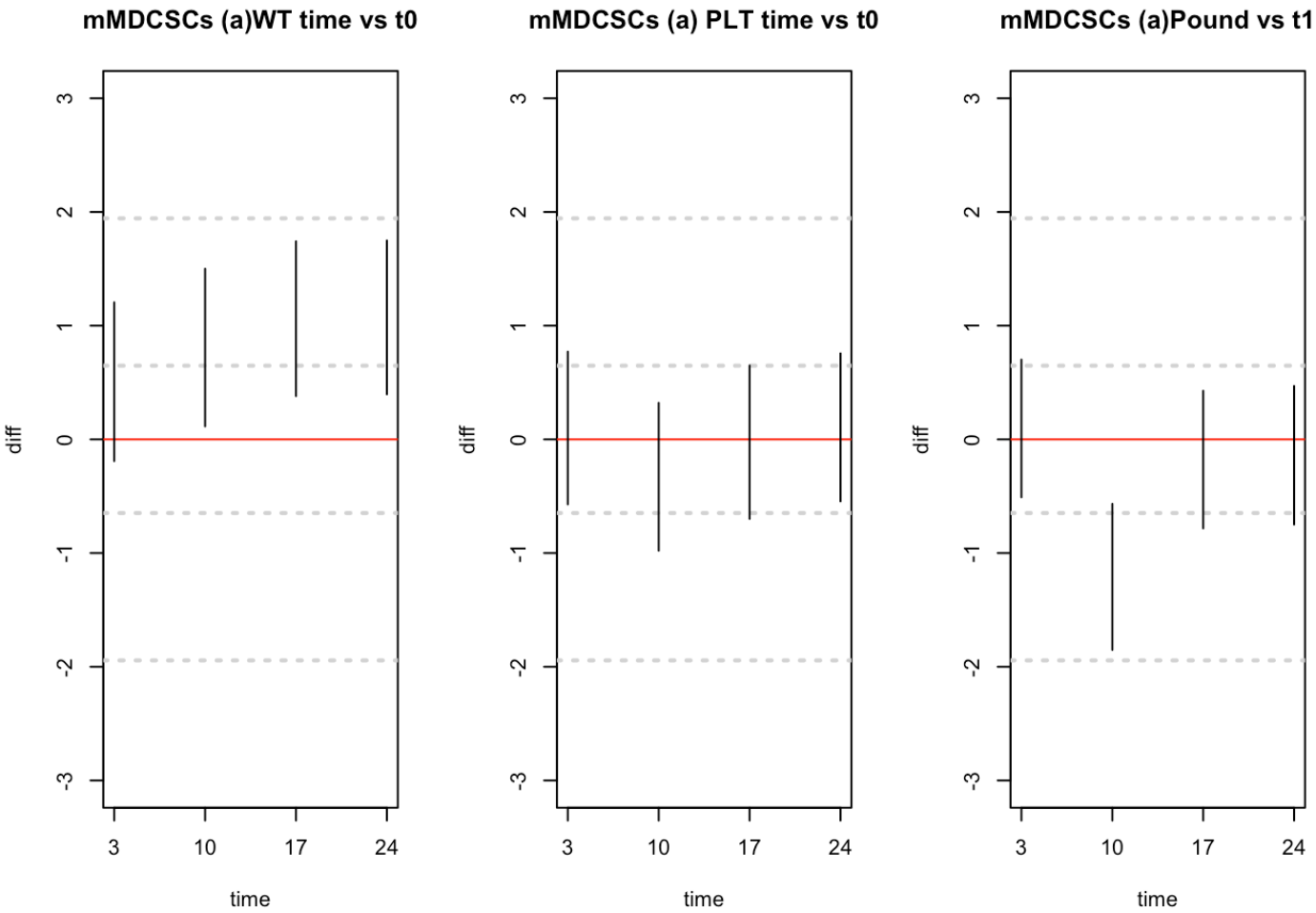

mMDCSCs (a)female vs male PLT
logit(pfemale)-logit(pmale)
3
2
1
0
-1
-2
-3
0
3
10
17
24


mMDCSCs (a)female vs male Poun
logit(pfemale)-logit(pmale)
3
2
1
0
-1
-2
-3
0
3
10
17
24

time time time

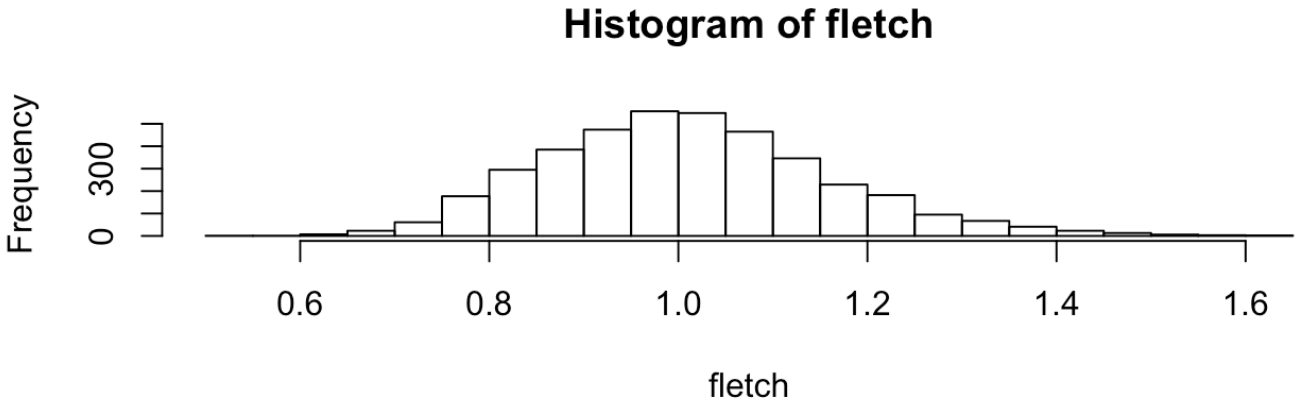


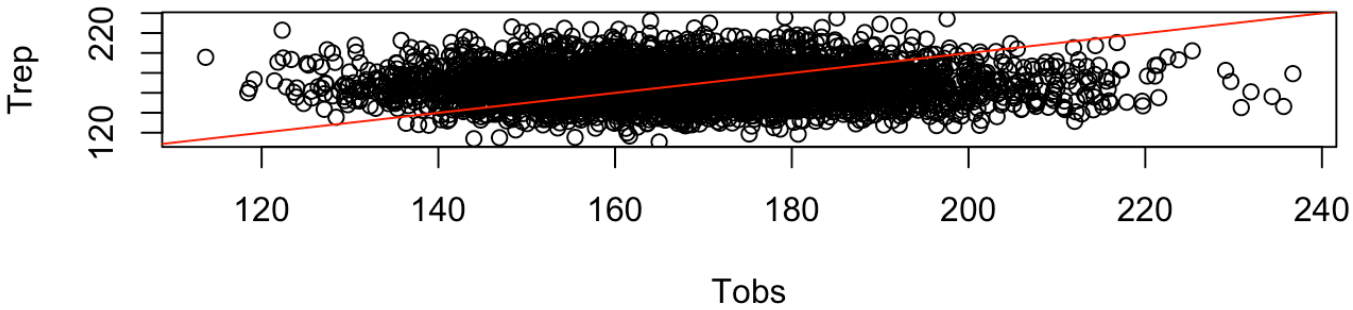




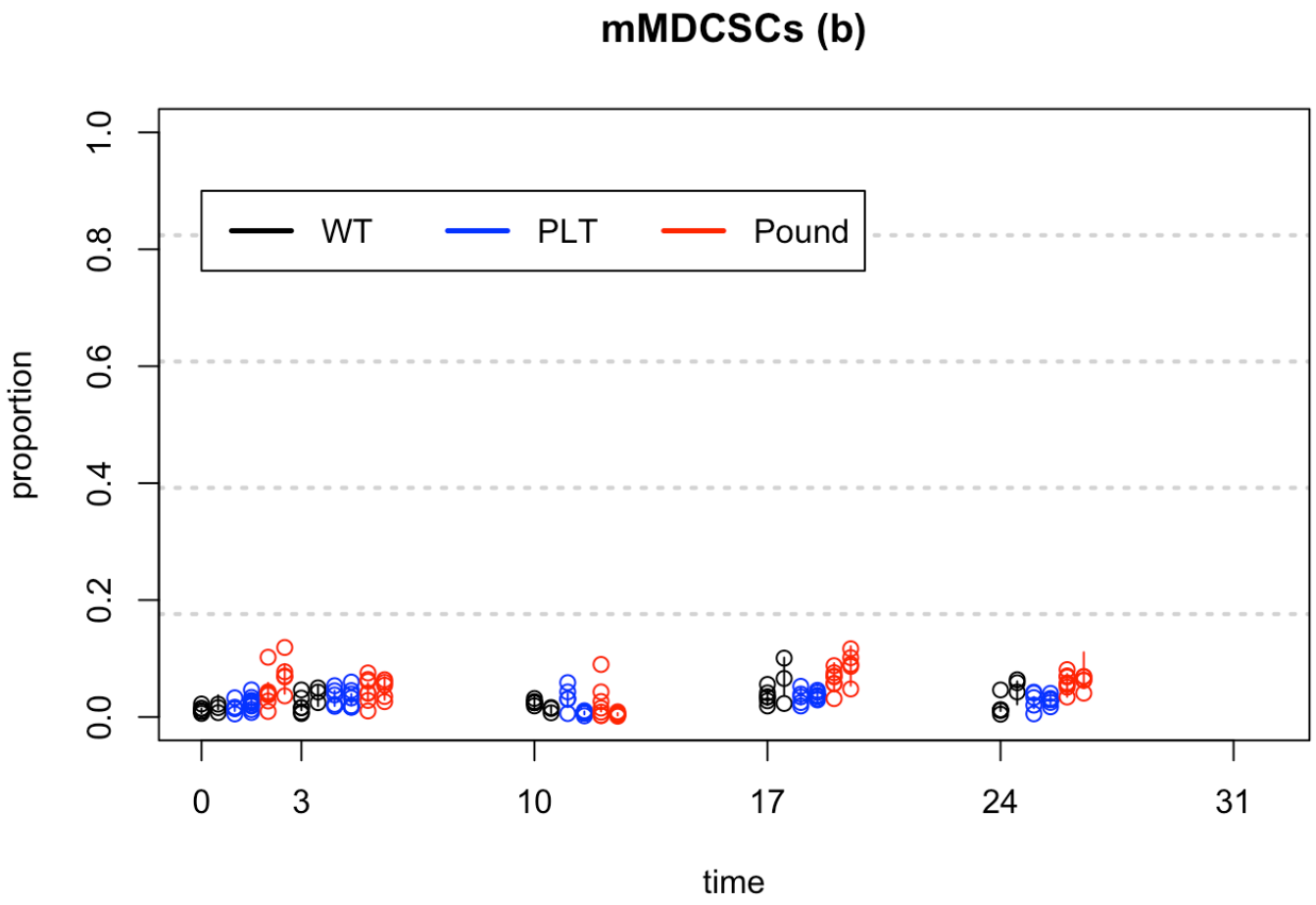
4B mMDCSC as proportion of live cells.

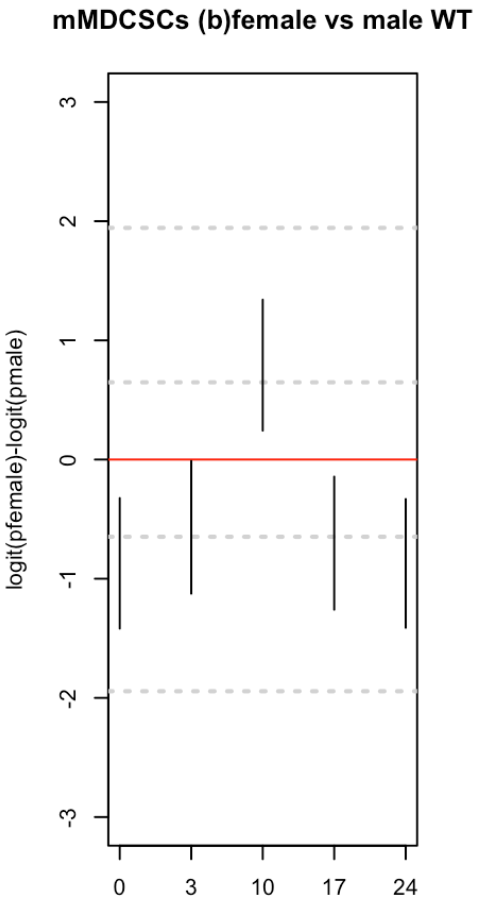
```
## Compiling model graph
##    Resolving undeclared variables
##    Allocating nodes
## Graph information:
##    Observed stochastic nodes: 175
##    Unobserved stochastic nodes: 414
##    Total graph size: 2930
##
## Initializing model
```

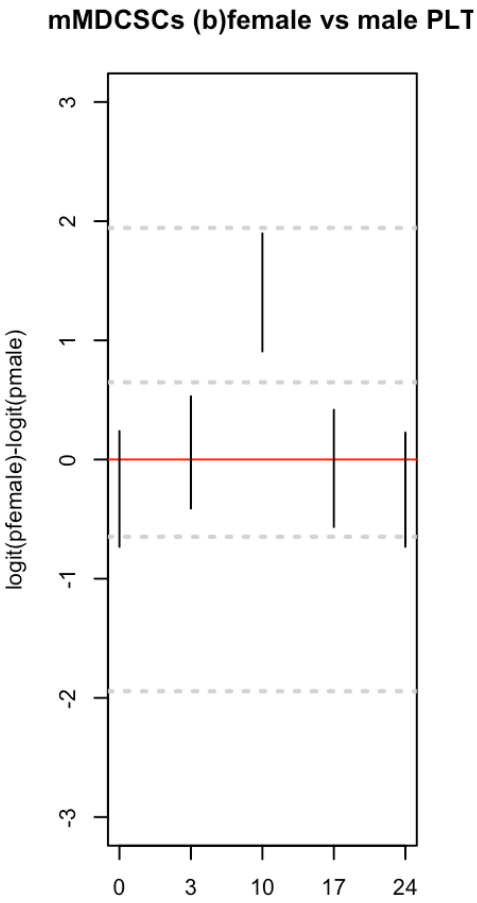


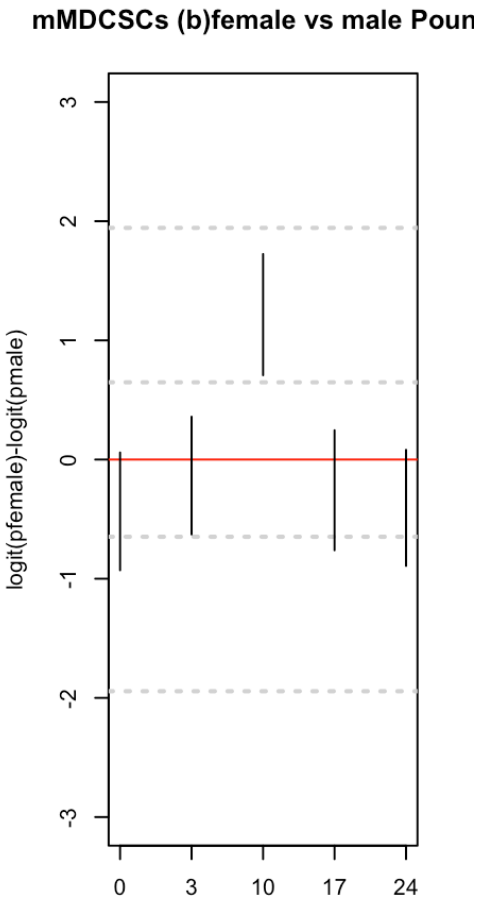



```
## [1] "got posteriors"
```

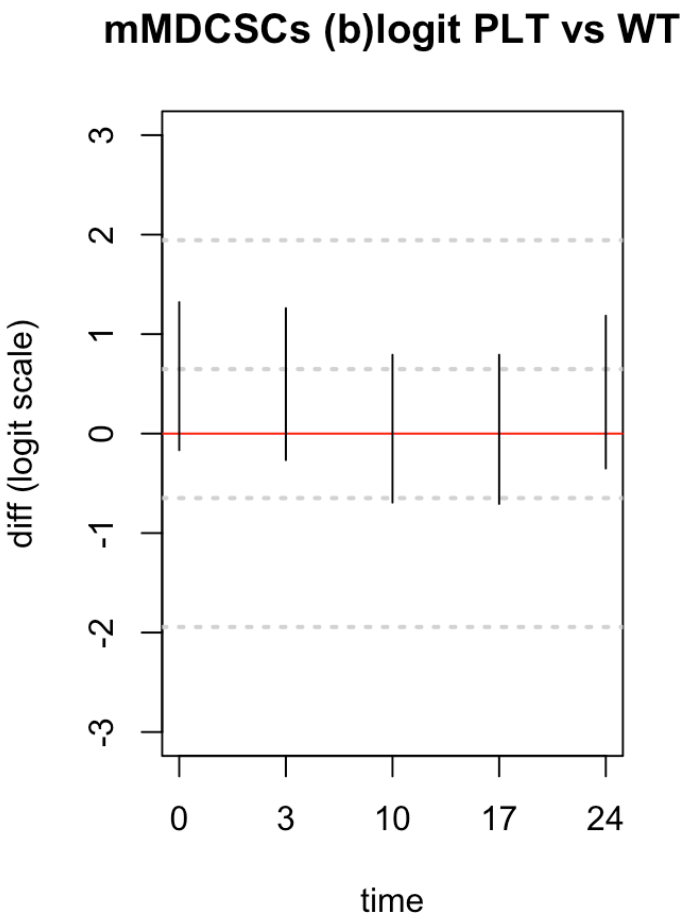

mMDCSCs (b)
WT
PLT
Pound
proportion
0.0
0.2
0.4
0.6
0.8
1.0
0
3
10
17
24
31
time

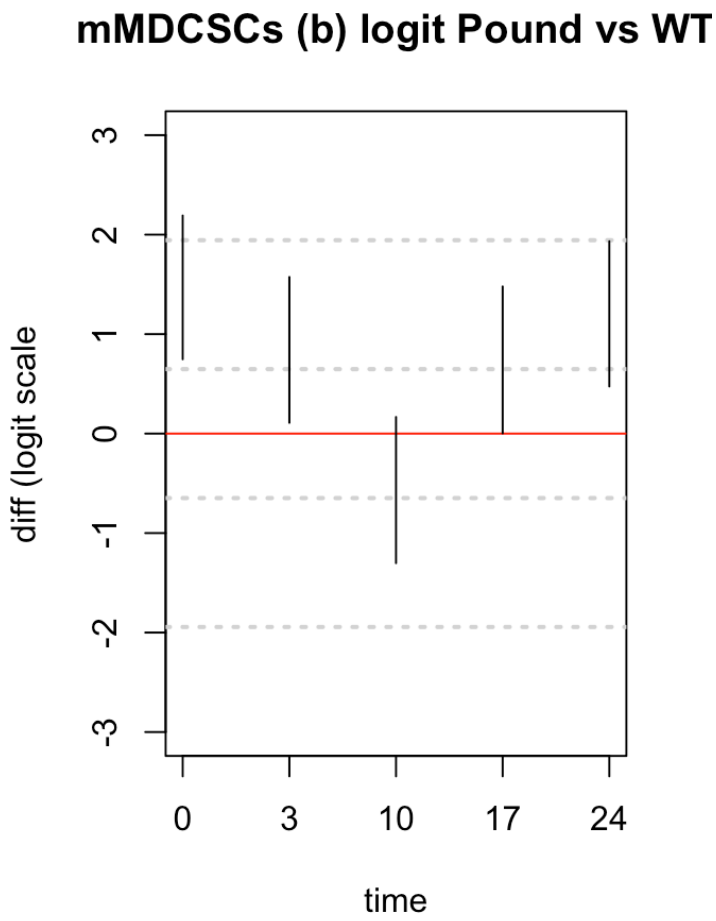

mMDCSCs (b)female vs male WT
logit(pfemale)-logit(pmale)
3
2
1
0
-1
-2
-3
0
3
10
17
24

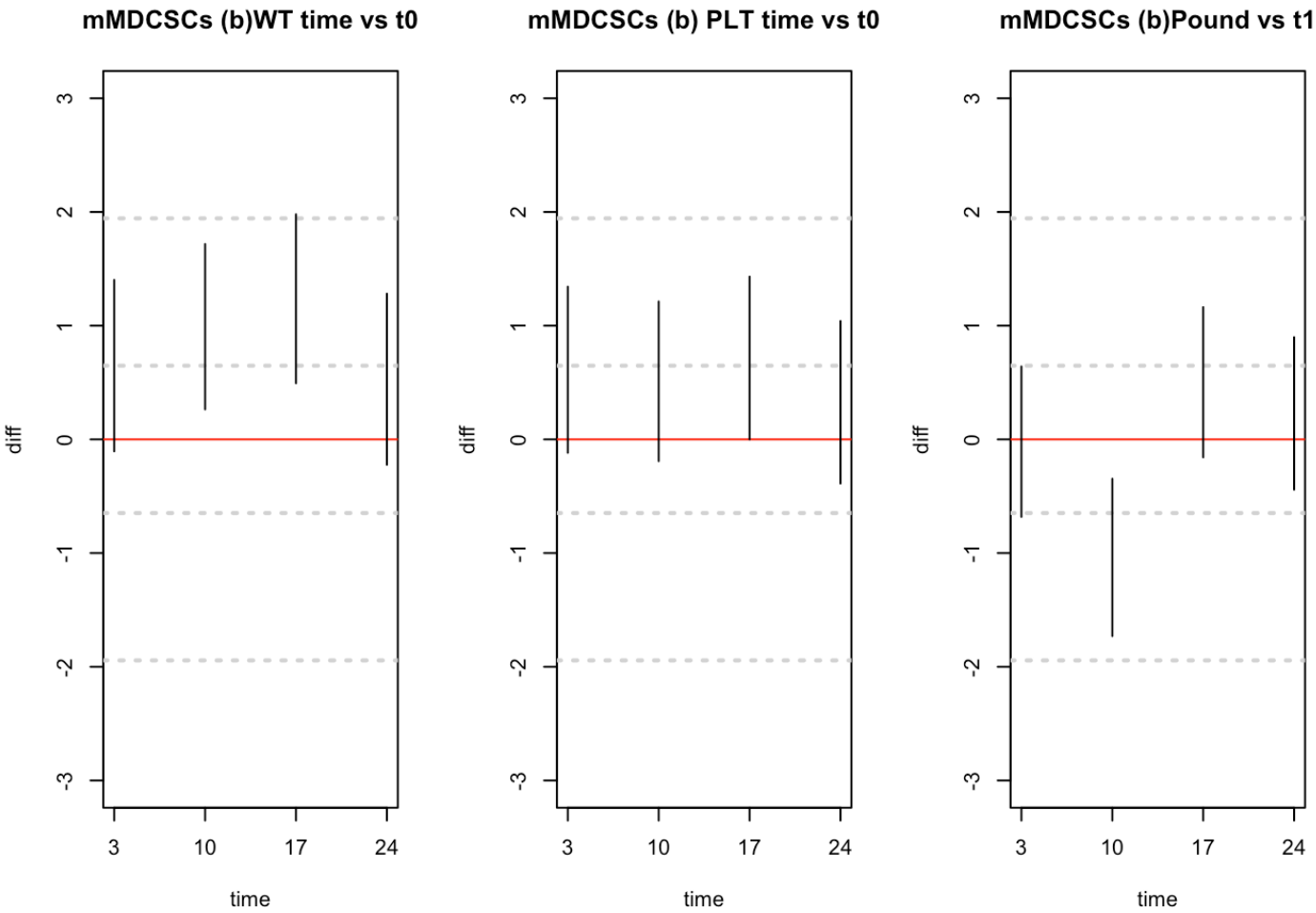

mMDCSCs (b)female vs male PLT
logit(pfemale)-logit(pmale)
3
2
1
0
-1
-2
-3
0
3
10
17
24


mMDCSCs (b)female vs male Poun
logit(pfemale)-logit(pmale)
3
2
1
0
-1
-2
-3
0
3
10
17
24

time time time

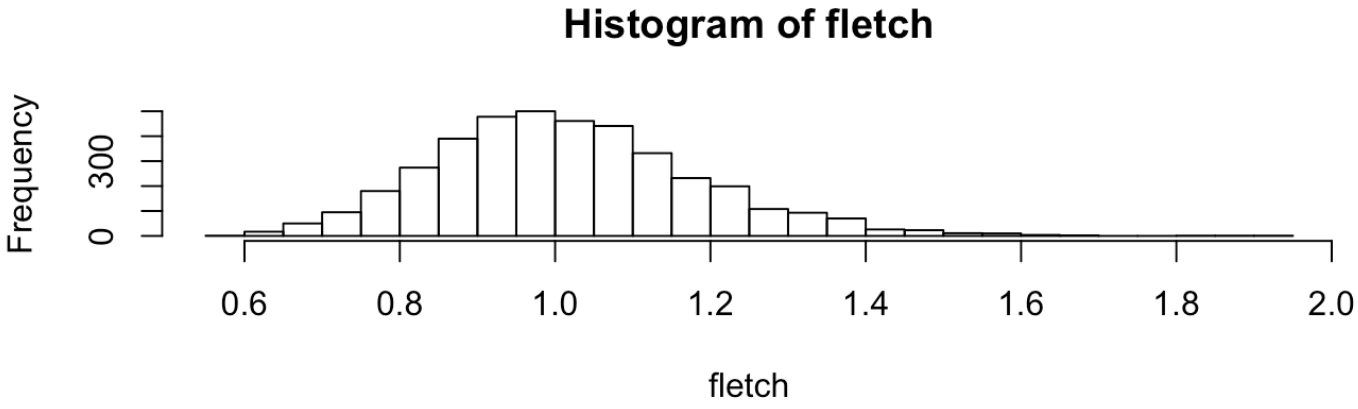


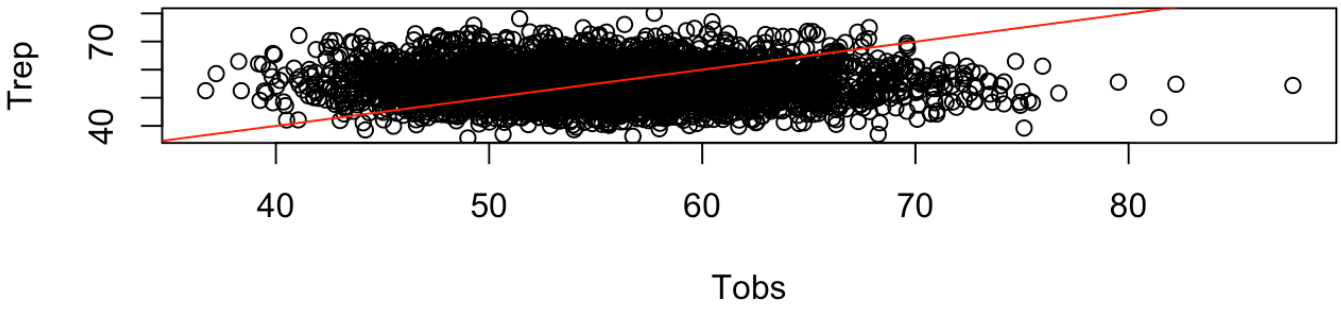




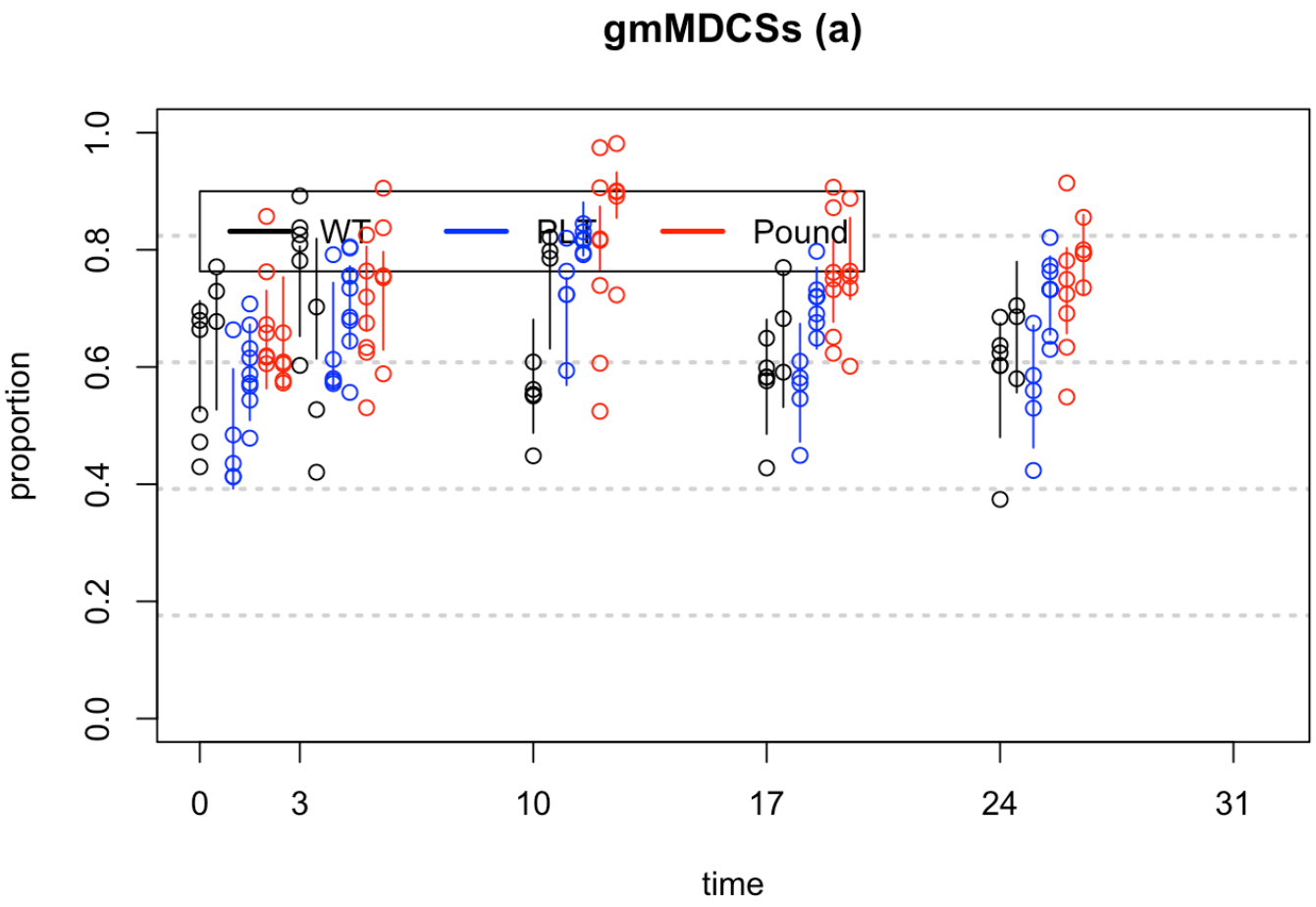
5a “gMDCSC (a) as proportion of CD11bpos”"

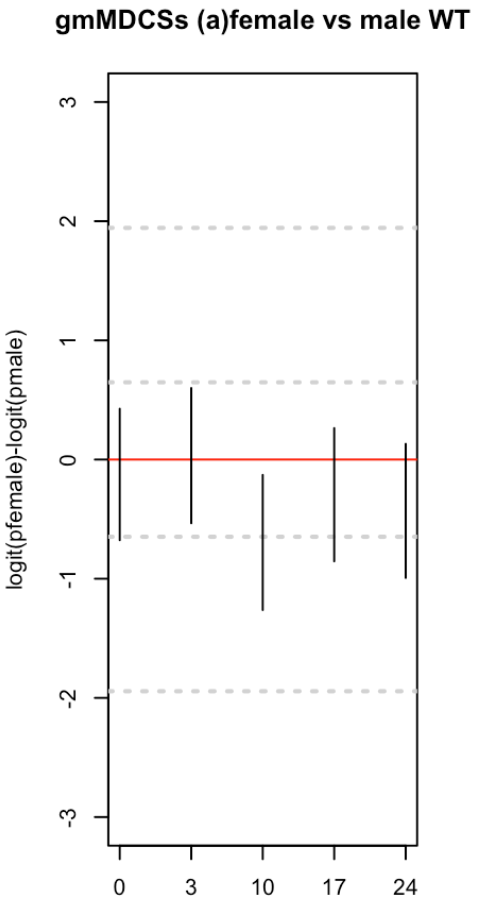
```
## Compiling model graph
##    Resolving undeclared variables
##    Allocating nodes
## Graph information:
##    Observed stochastic nodes: 175
##    Unobserved stochastic nodes: 414
##    Total graph size: 2930
##
## Initializing model
```

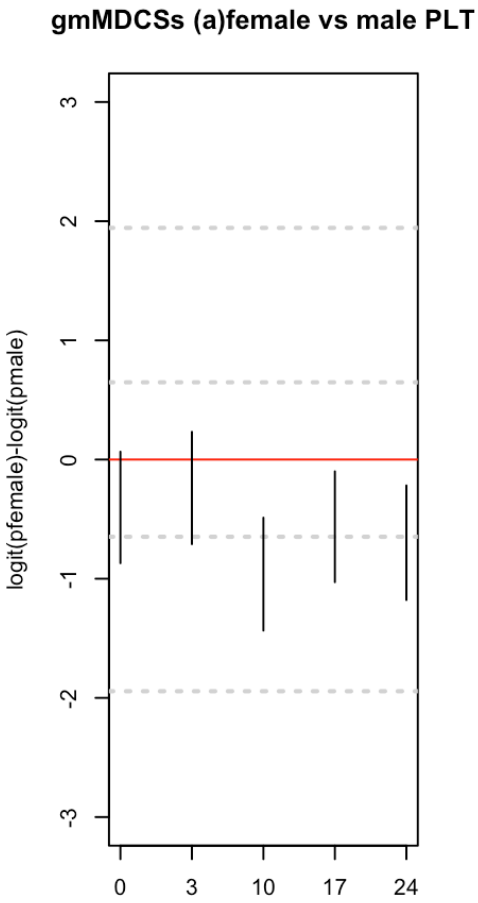


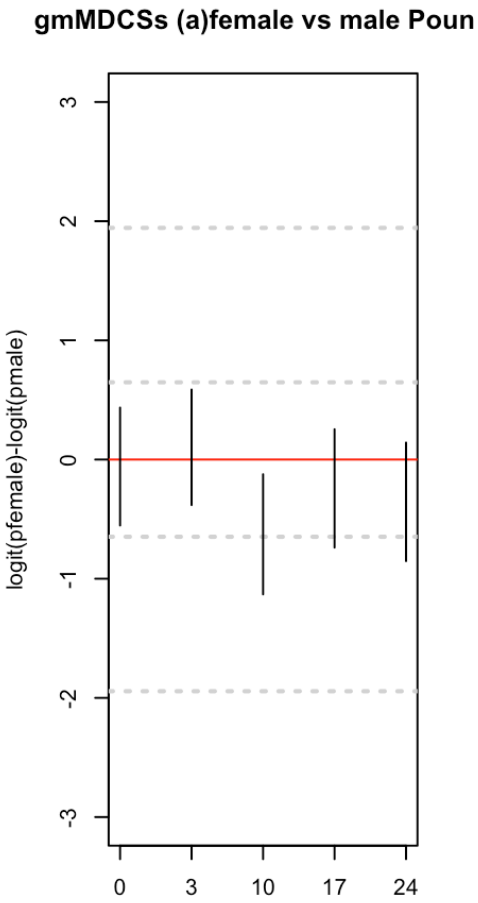



```
## [1] "got posteriors"
```

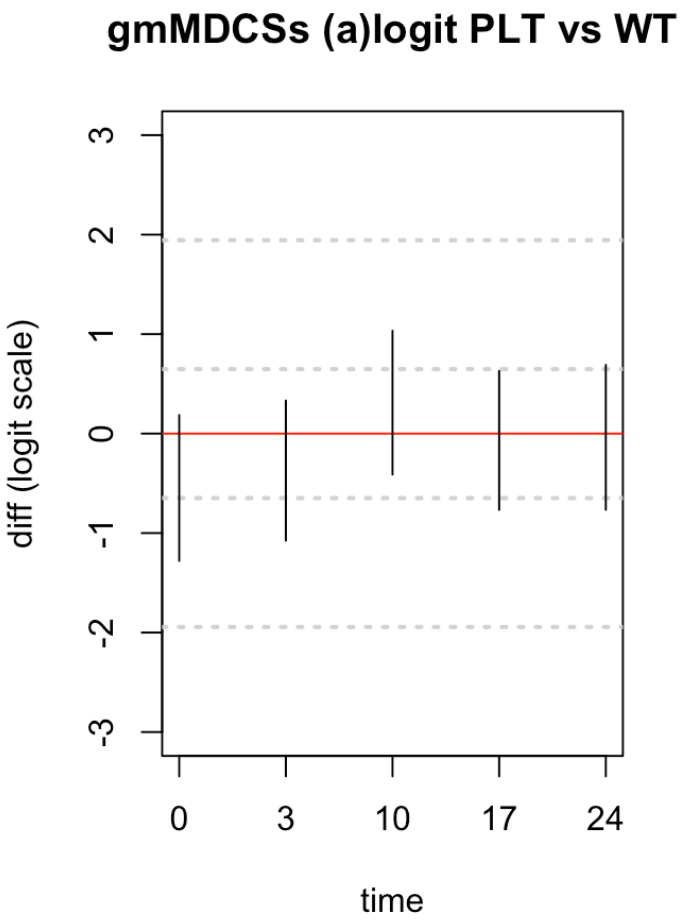

gmMDCSs (a)
WT
PLT
Pound
proportion
0.0
0.2
0.4
0.6
0.8
1.0
0
3
10
17
24
31
time

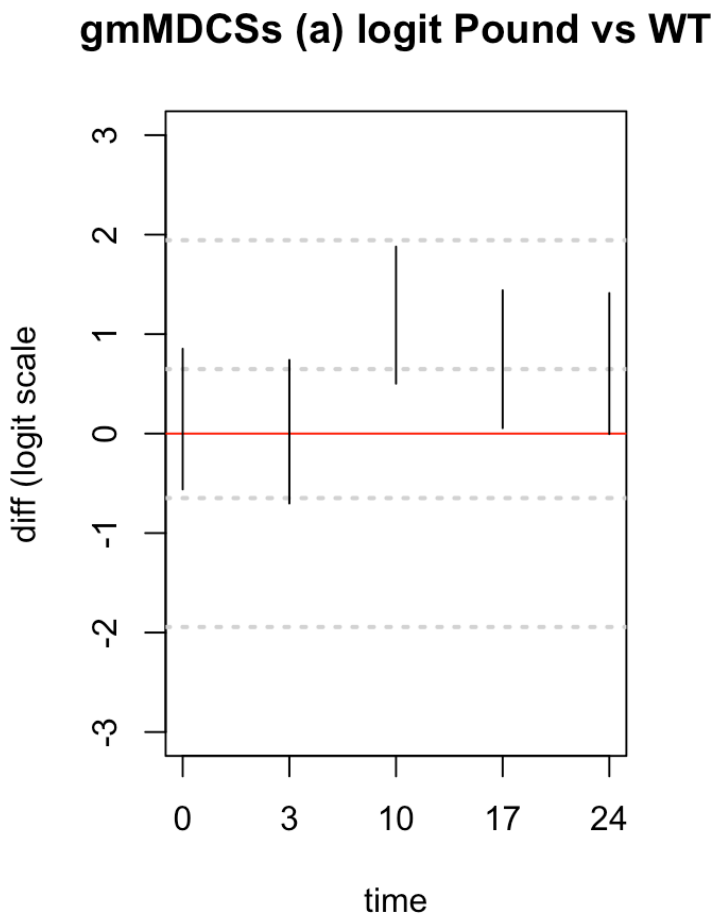

gmMDCSs (a)female vs male WT
logit(pfemale)-logit(pmale)
-3
-2
-1
0
1
2
3
0
3
10
17
24

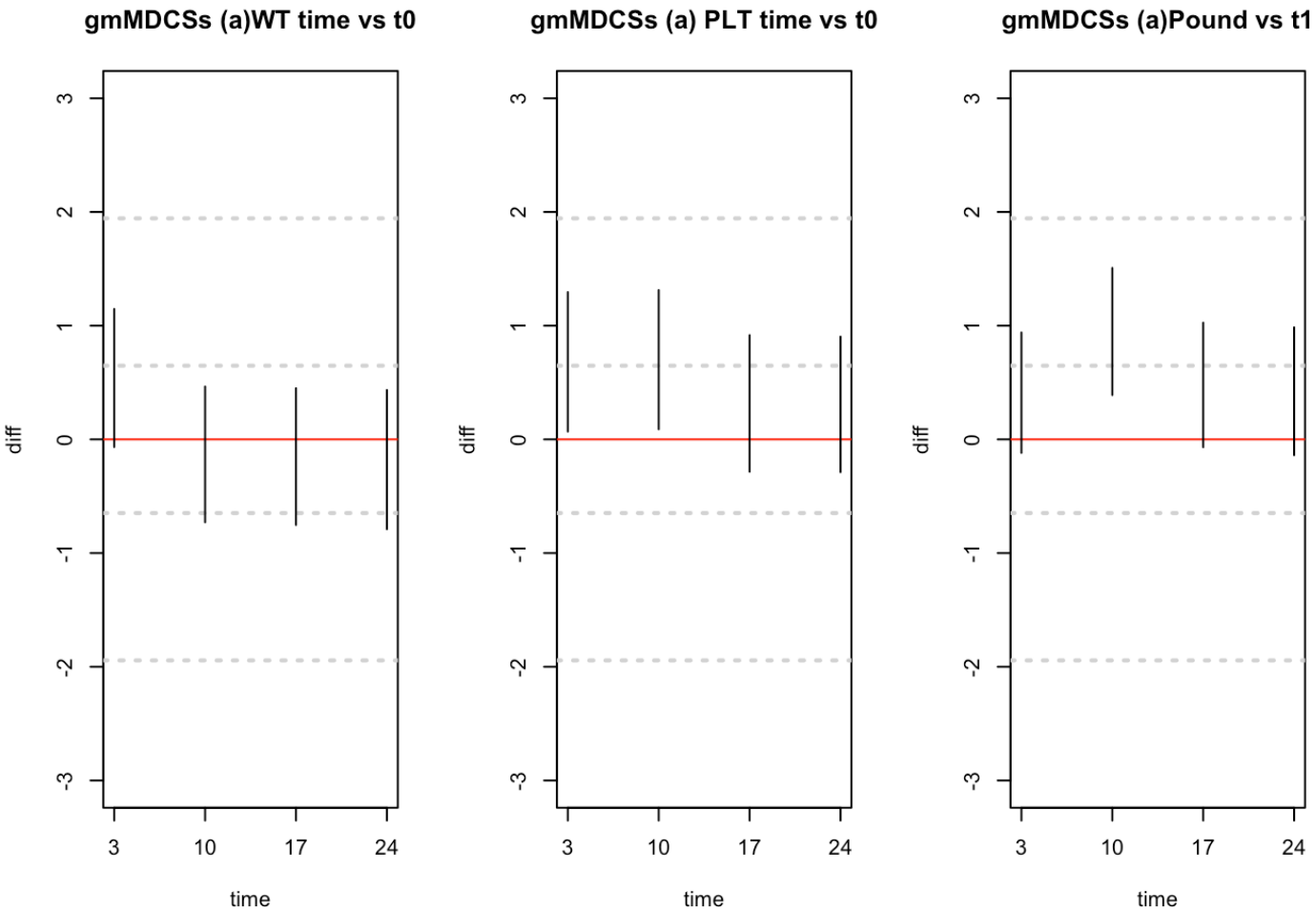

gmMDCSs (a)female vs male PLT
logit(pfemale)-logit(pmale)
-3
-2
-1
0
1
2
3
0
3
10
17
24


gmMDCSs (a)female vs male Poun
logit(pfemale)-logit(pmale)
-3
-2
-1
0
1
2
3
0
3
10
17
24

time time time

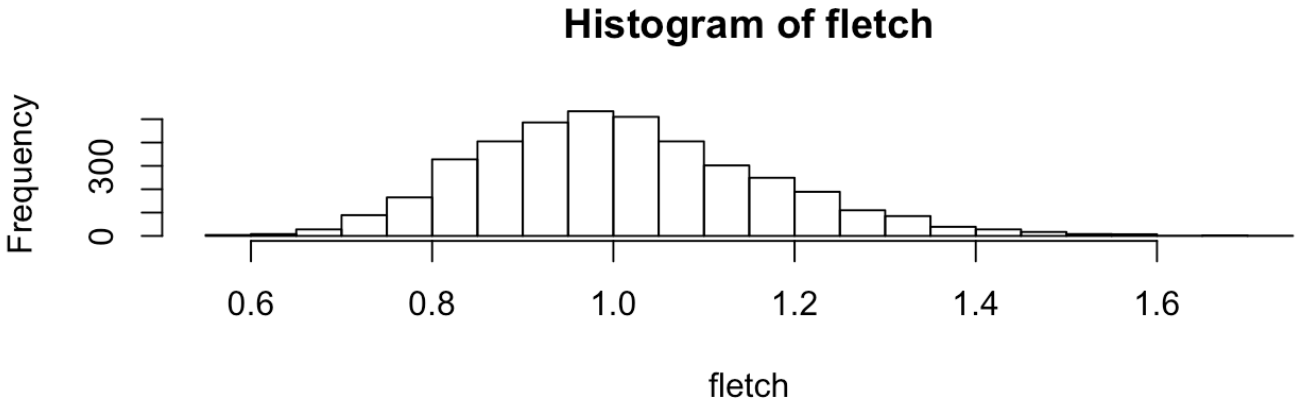


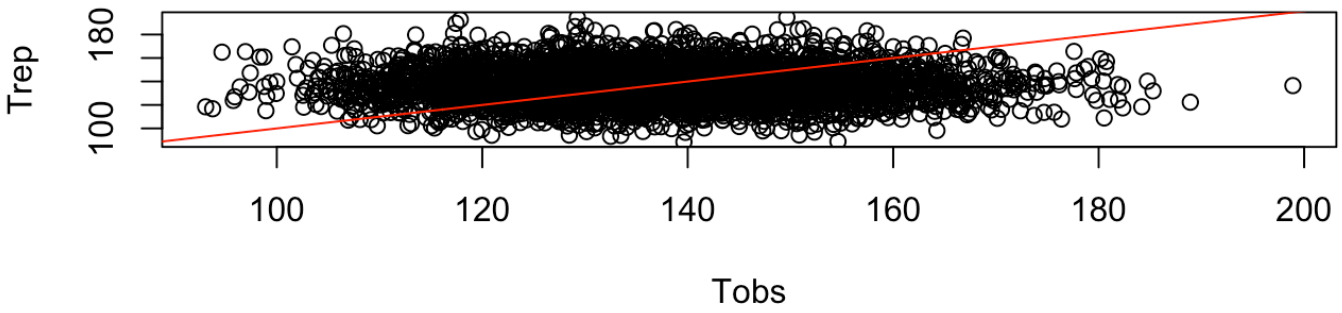




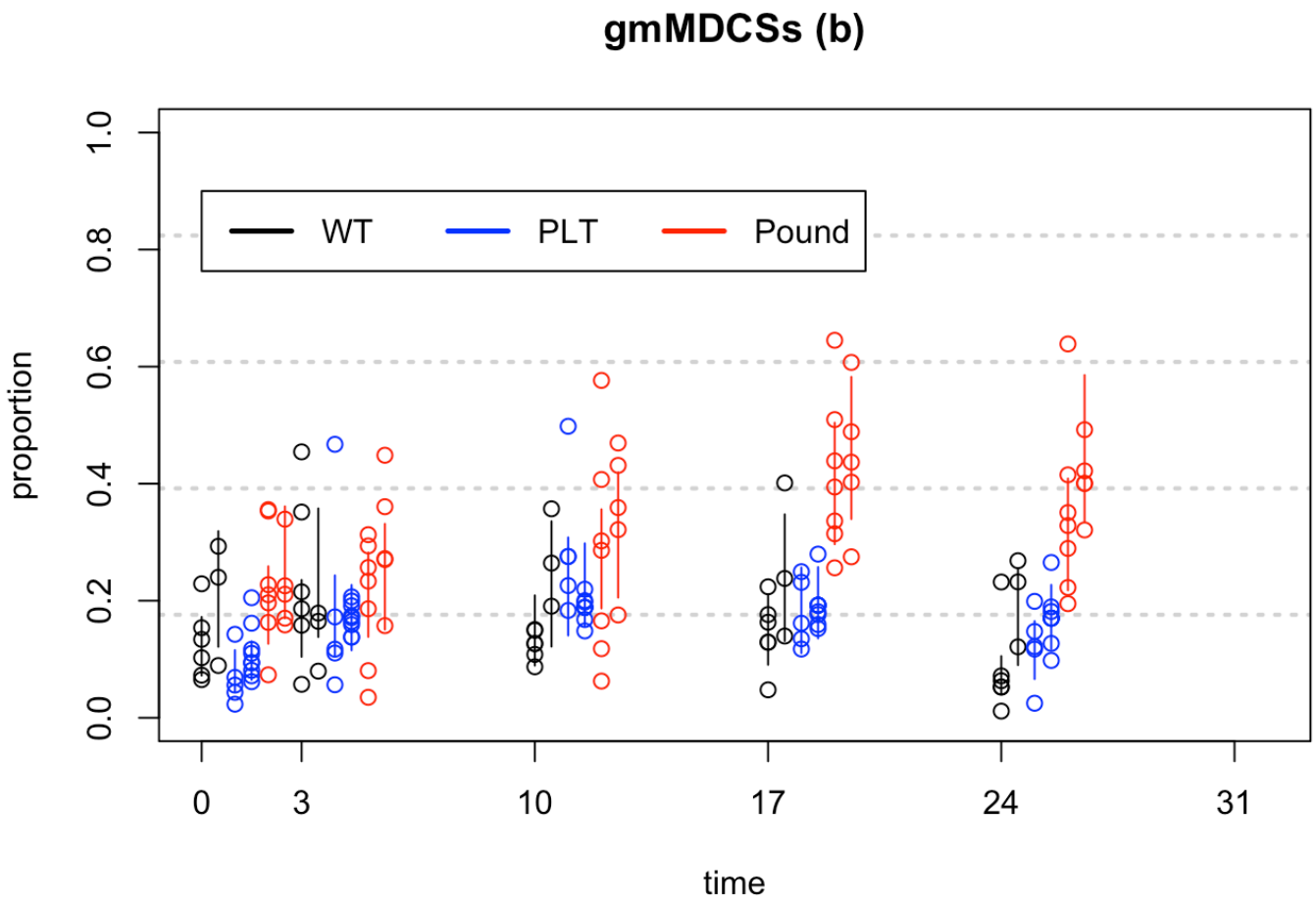
5b gmMDCSC (b) as proportion of live cells.

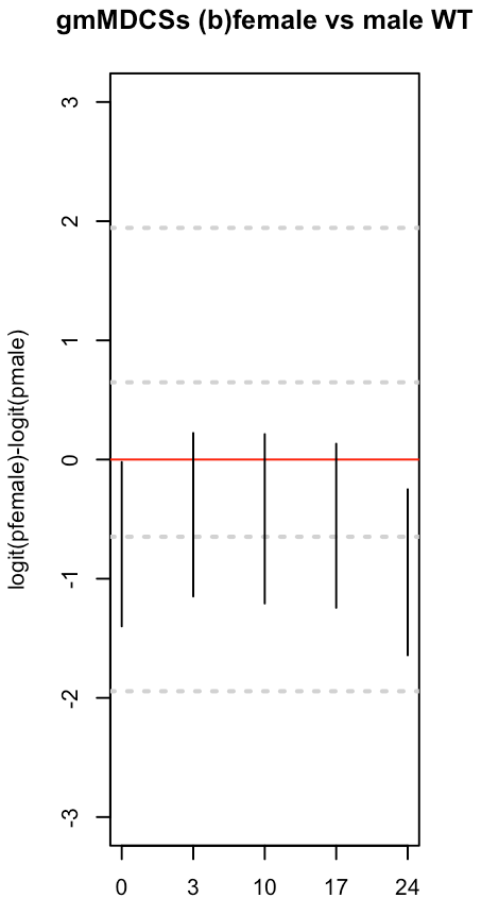
```
## Compiling model graph
##    Resolving undeclared variables
##    Allocating nodes
## Graph information:
##    Observed stochastic nodes: 175
##    Unobserved stochastic nodes: 414
##    Total graph size: 2930
##
## Initializing model
```

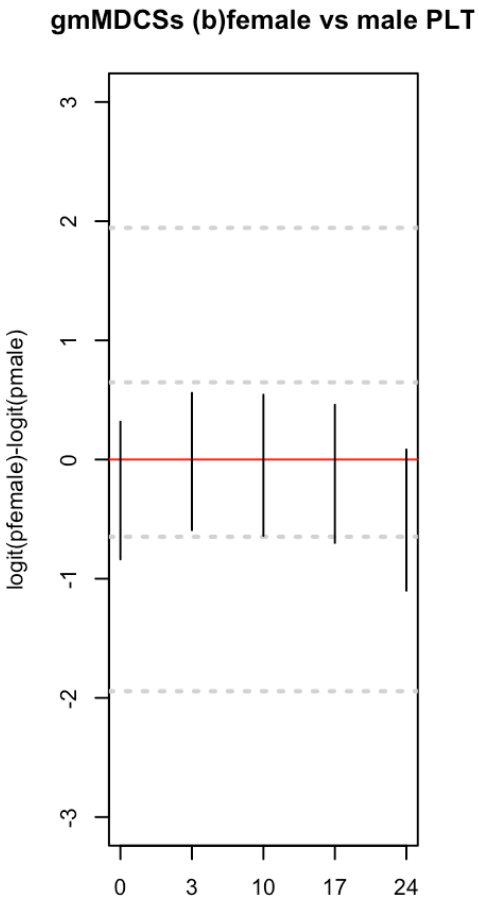


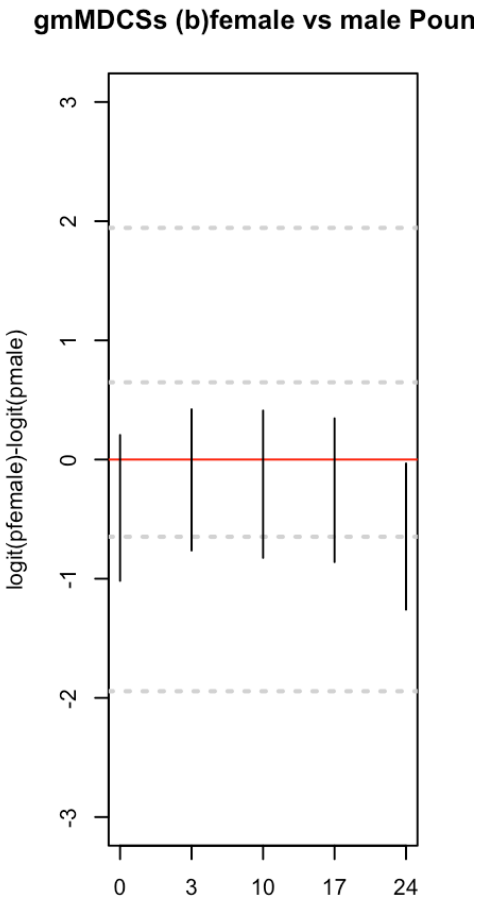



```
## [1] "got posteriors"
```

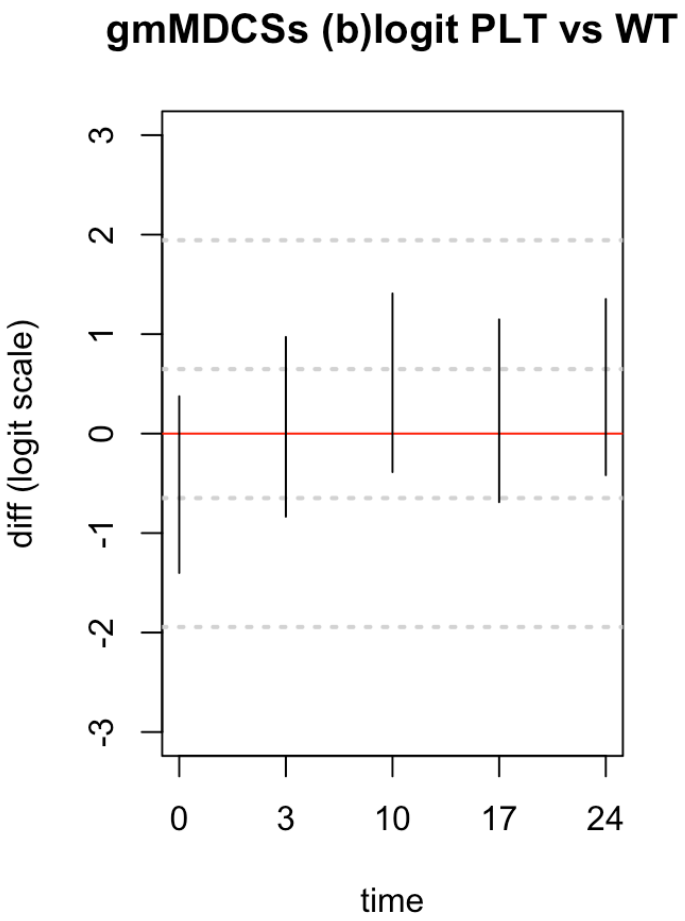

gmMDCSs (b)
WT
PLT
Pound
proportion
0.0
0.2
0.4
0.6
0.8
1.0
0
3
10
17
24
31
time

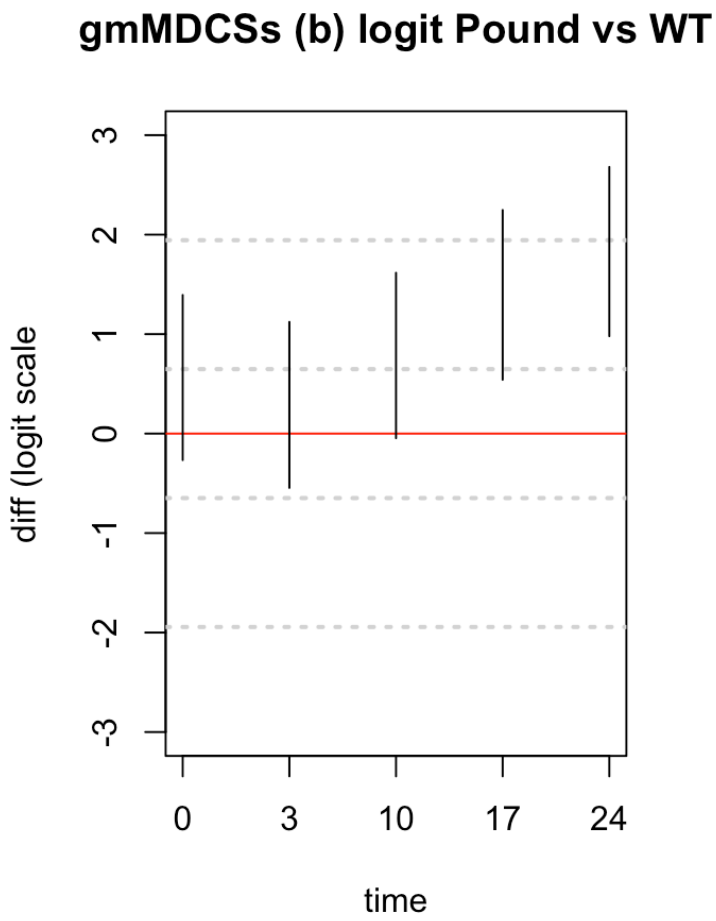

gmMDCSs (b)female vs male WT
logit(pfemale)-logit(pmale)
3
2
1
0
-1
-2
-3
0
3
10
17
24

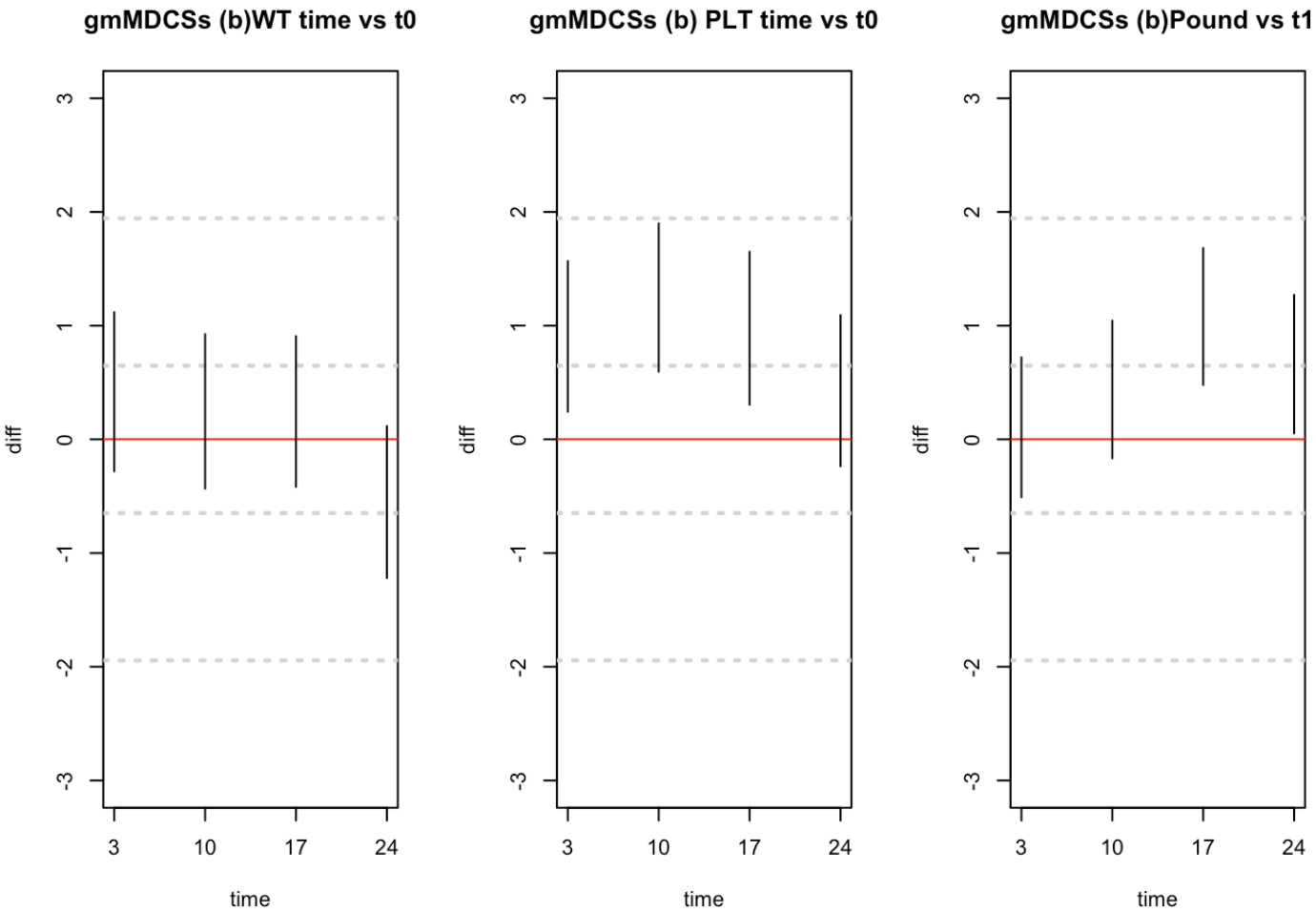

gmMDCSs (b)female vs male PLT
logit(pfemale)-logit(pmale)
3
2
1
0
-1
-2
-3
0
3
10
17
24


gmMDCSs (b)female vs male Poun
logit(pfemale)-logit(pmale)
3
2
1
0
-1
-2
-3
0
3
10
17
24

time time time

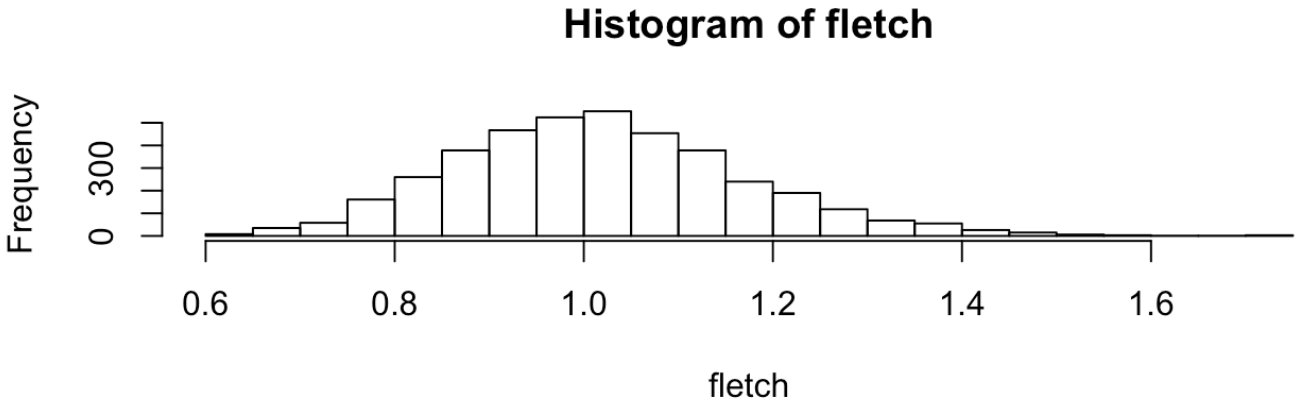


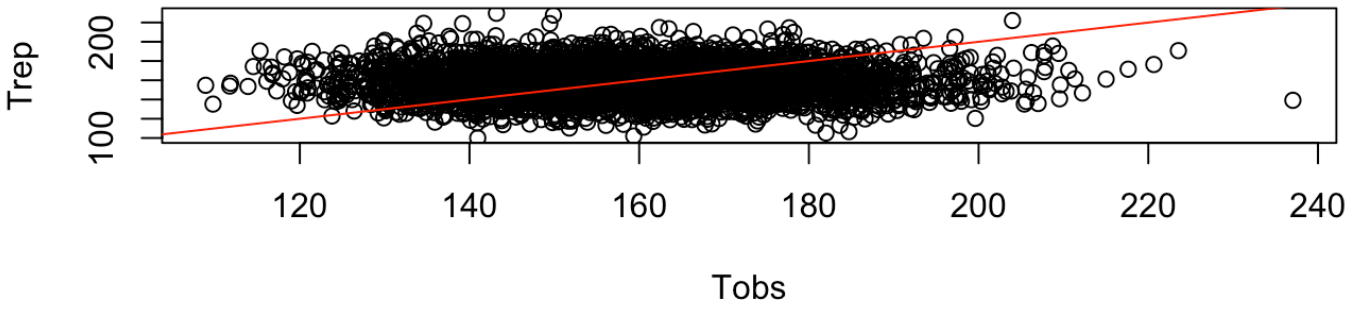




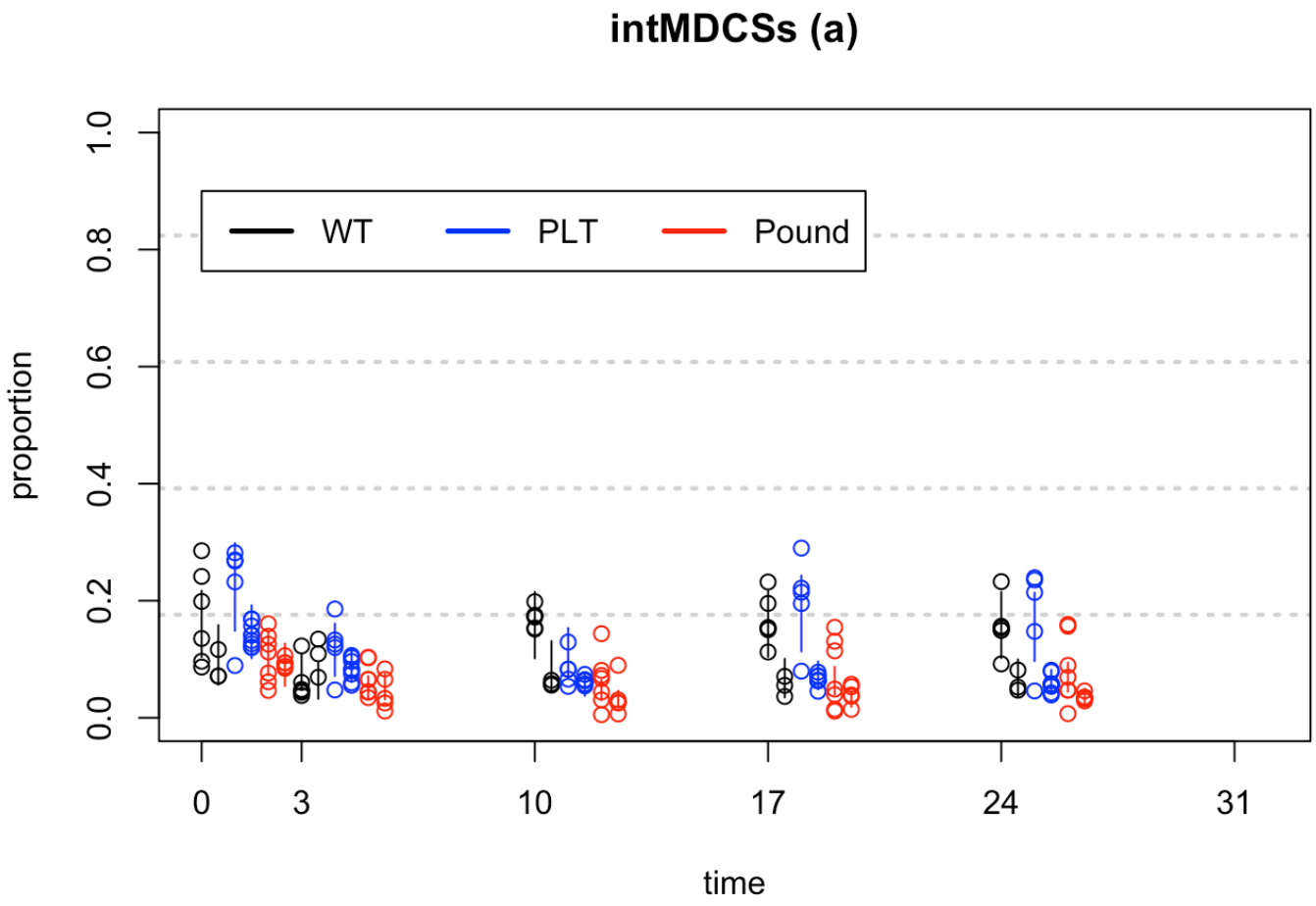
6a intMDCSC as proportion of CD11bpos

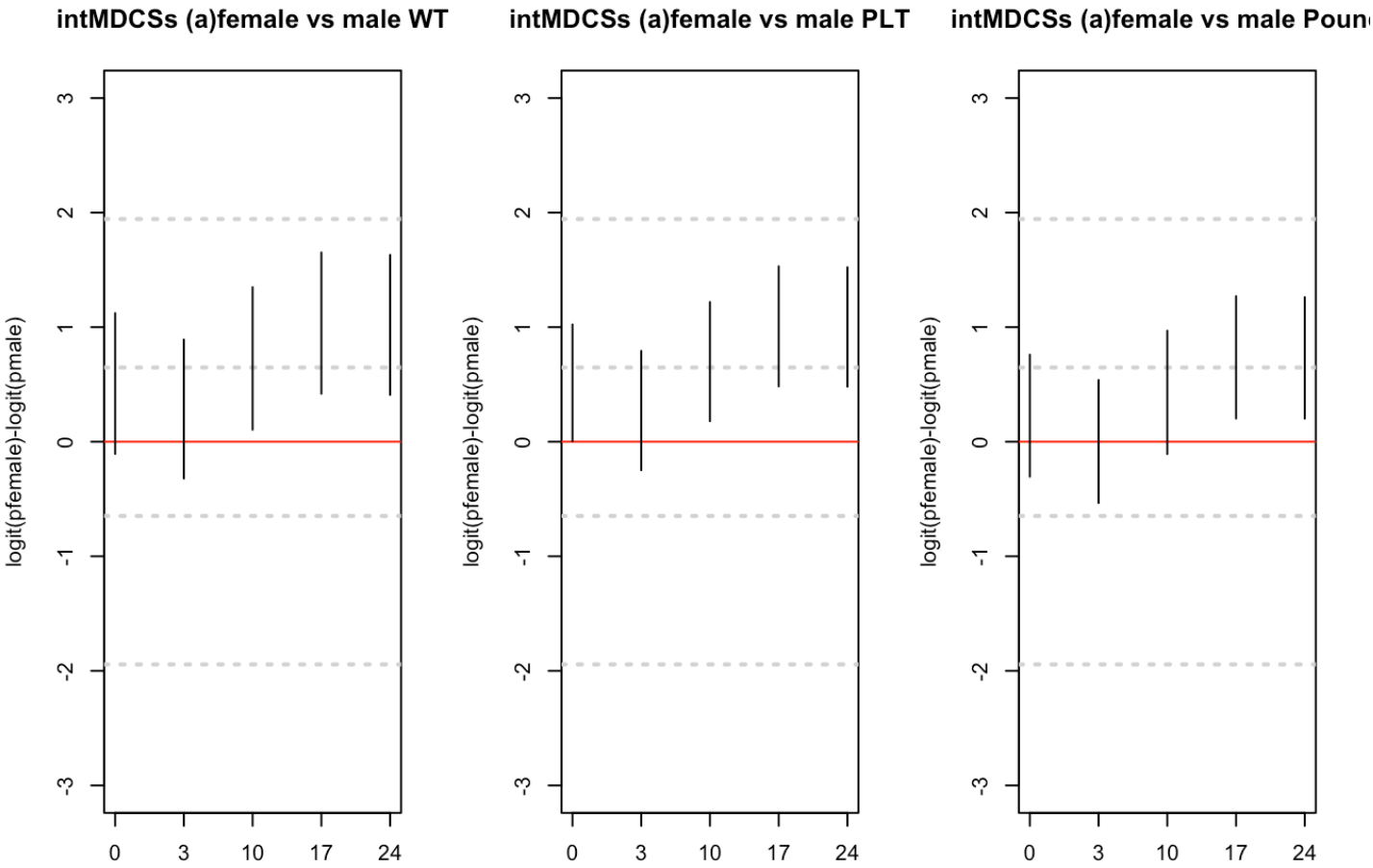
```
## Compiling model graph
##    Resolving undeclared variables
##    Allocating nodes
## Graph information:
##    Observed stochastic nodes: 175
##    Unobserved stochastic nodes: 414
##    Total graph size: 2930
##
## Initializing model
```






```
## [1] "got posteriors"
```

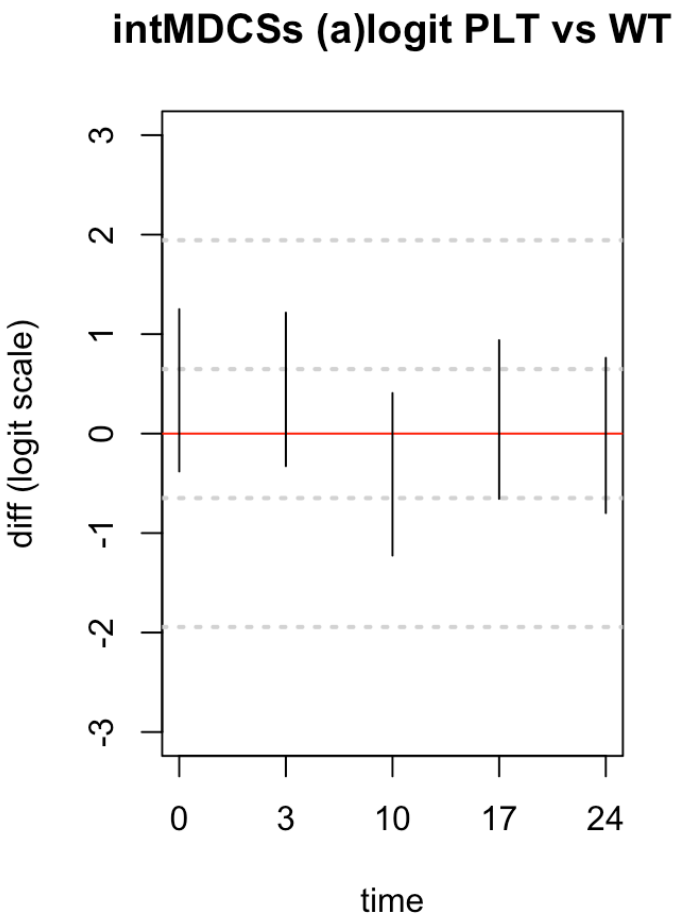

intMDCSs (a)
WT
PLT
Pound
proportion
0.0
0.2
0.4
0.6
0.8
1.0
0
3
10
17
24
31
time

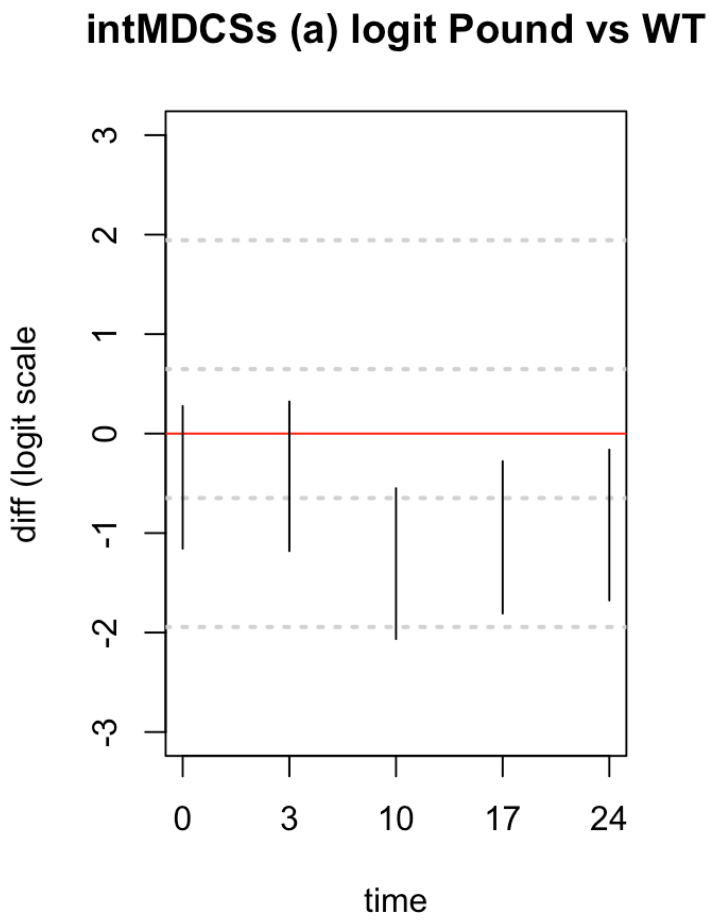

intMDCSs (a)female vs male WT
intMDCSs (a)female vs male PLT
intMDCSs (a)female vs male Poun
logit(pfemale)-logit(pmale)
3
2
1
0
-1
-2
-3
0
3
10
17
24

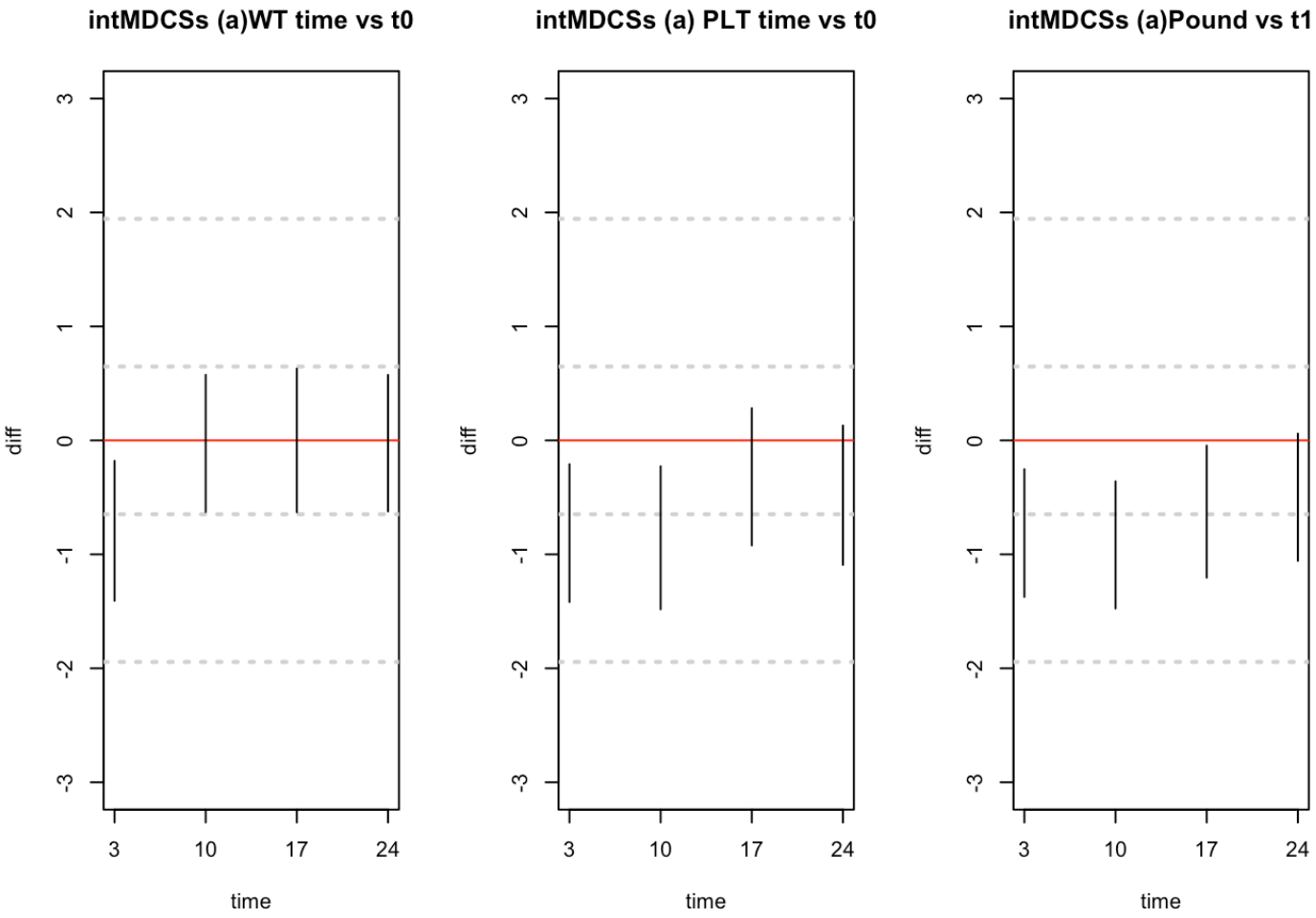
time

time

time

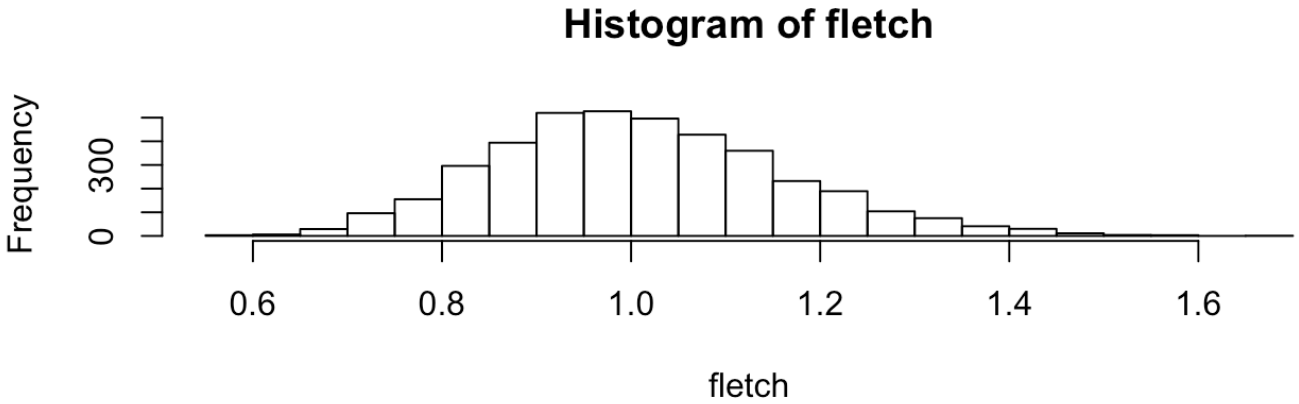


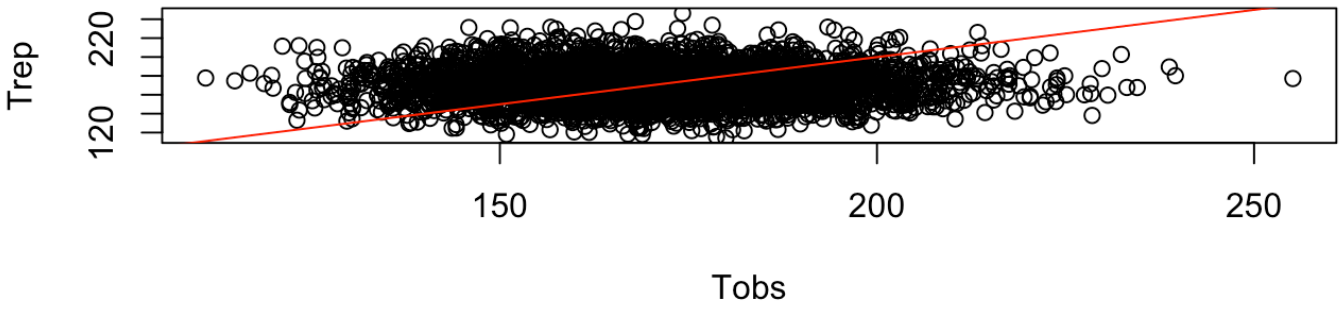




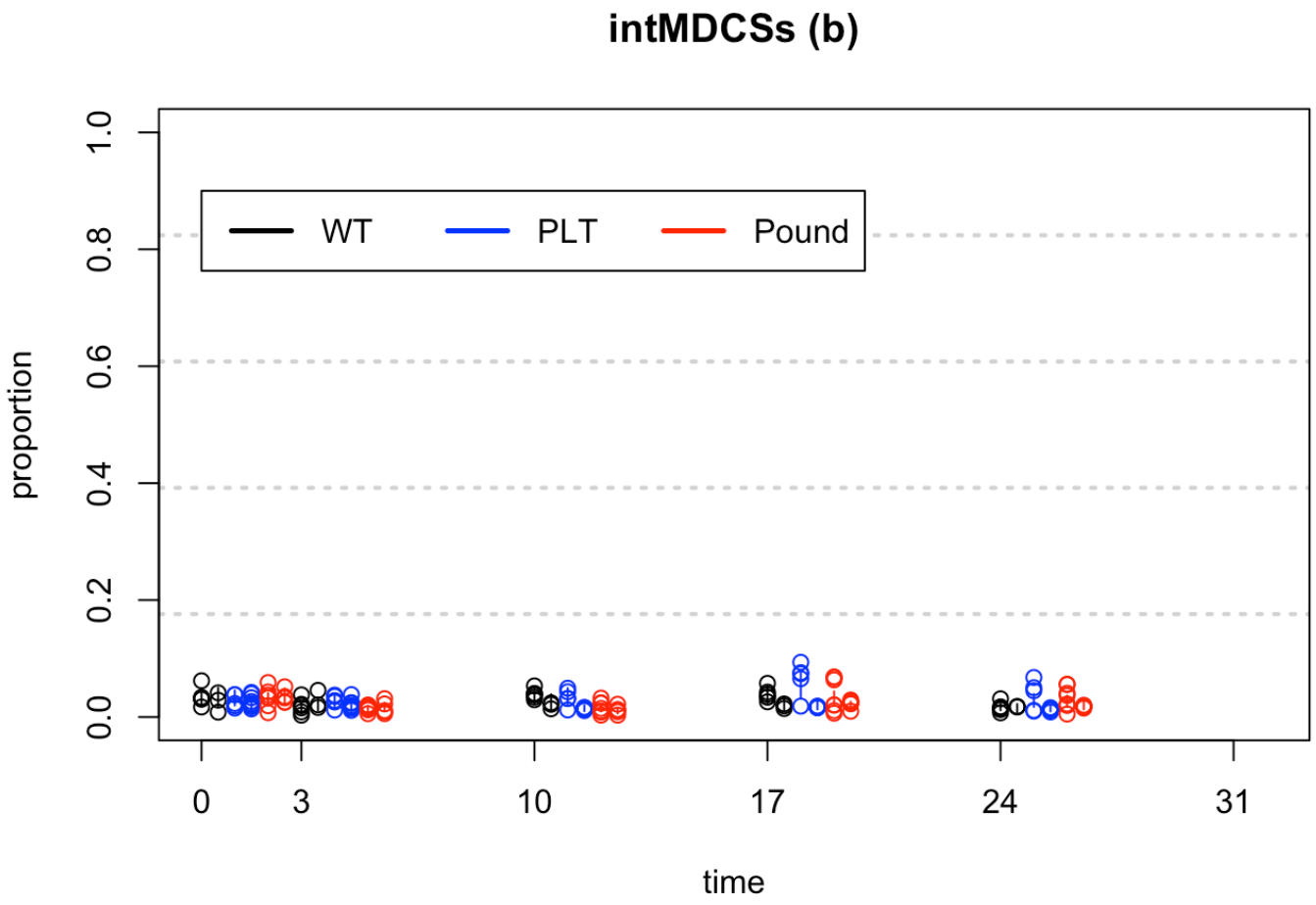
6b intMDCSC as proportion of live cells

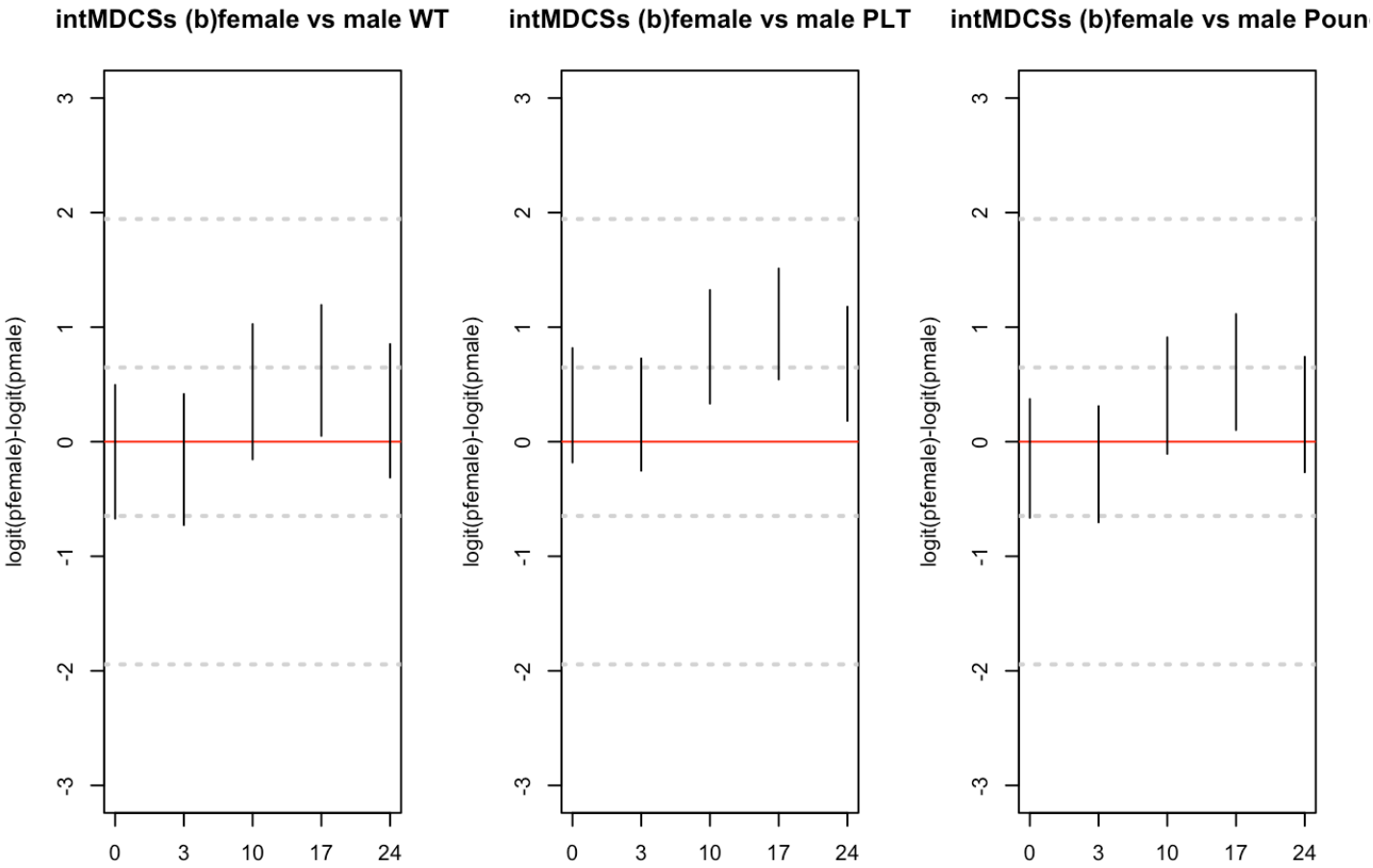
```
## Compiling model graph
##    Resolving undeclared variables
##    Allocating nodes
## Graph information:
##    Observed stochastic nodes: 175
##    Unobserved stochastic nodes: 414
##    Total graph size: 2930
##
## Initializing model
```



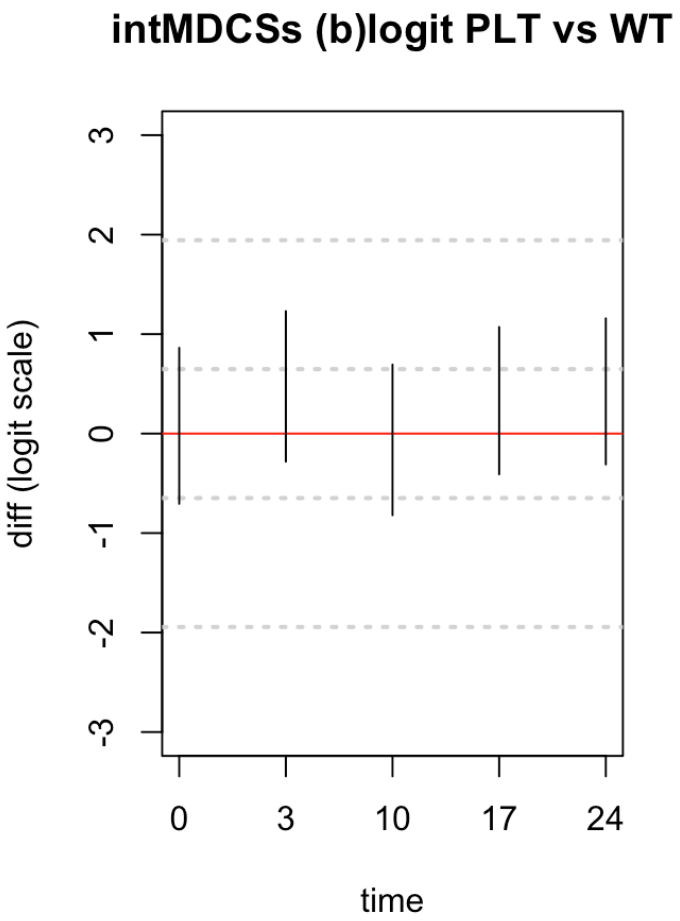


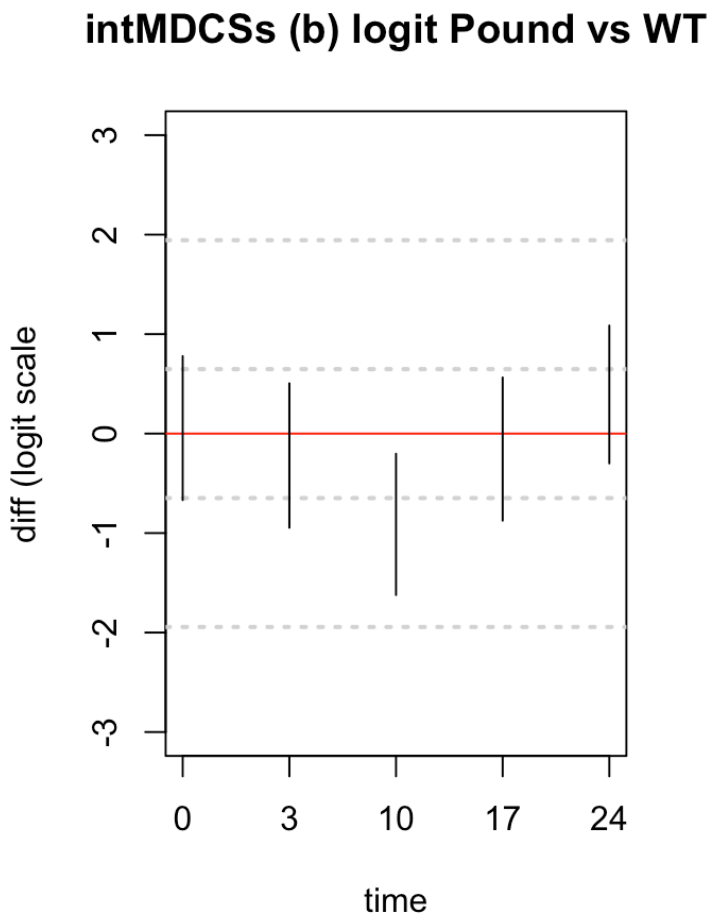

```
## [1] "got posteriors"
```

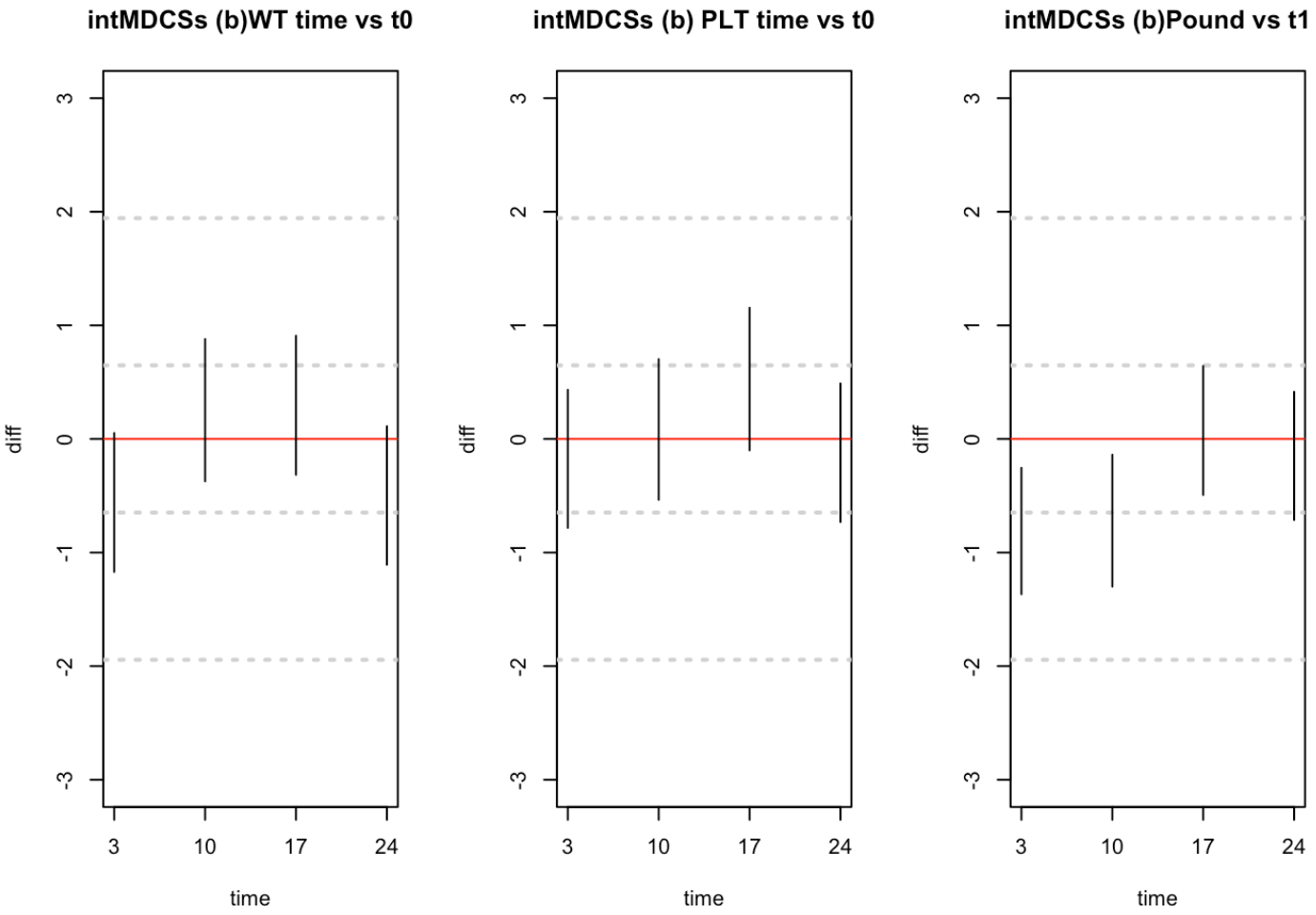

intMDCSs (b)
WT
PLT
Pound
proportion
0.0
0.2
0.4
0.6
0.8
1.0
0
3
10
17
24
31
time


intMDCSs (b)female vs male WT
intMDCSs (b)female vs male PLT
intMDCSs (b)female vs male Poun
logit(pfemale)-logit(pmale)
3
2
1
0
-1
-2
-3
0
3
10
17
24

time time time





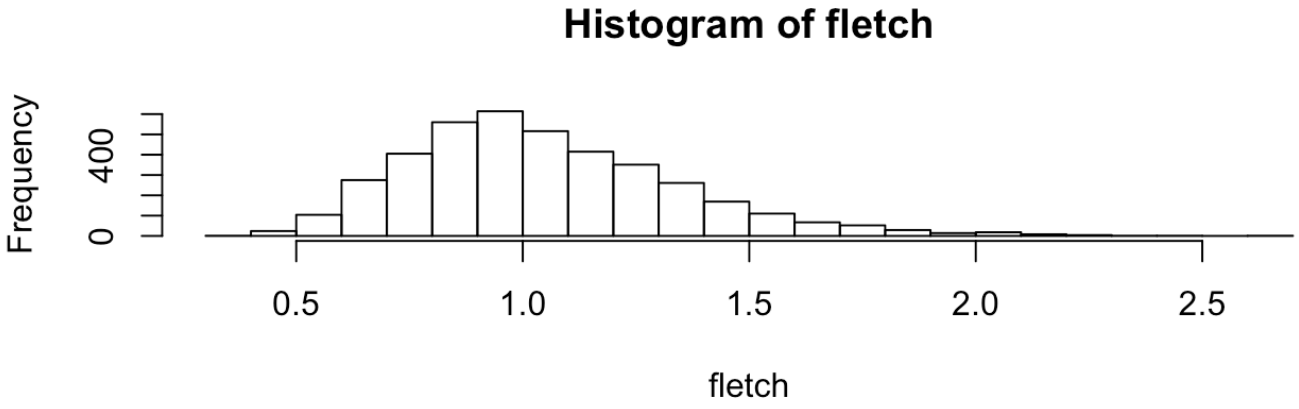


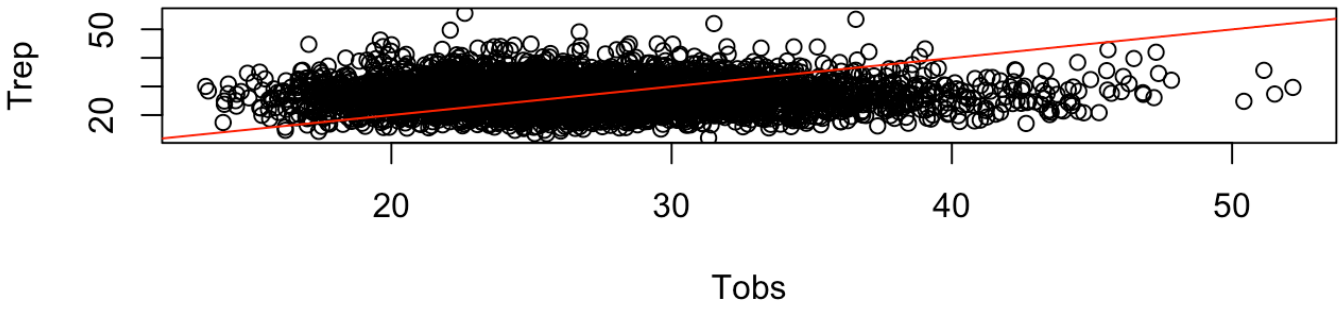
7 CD19pos_B220pos_MHCIIpos

```
## [1] 40
```

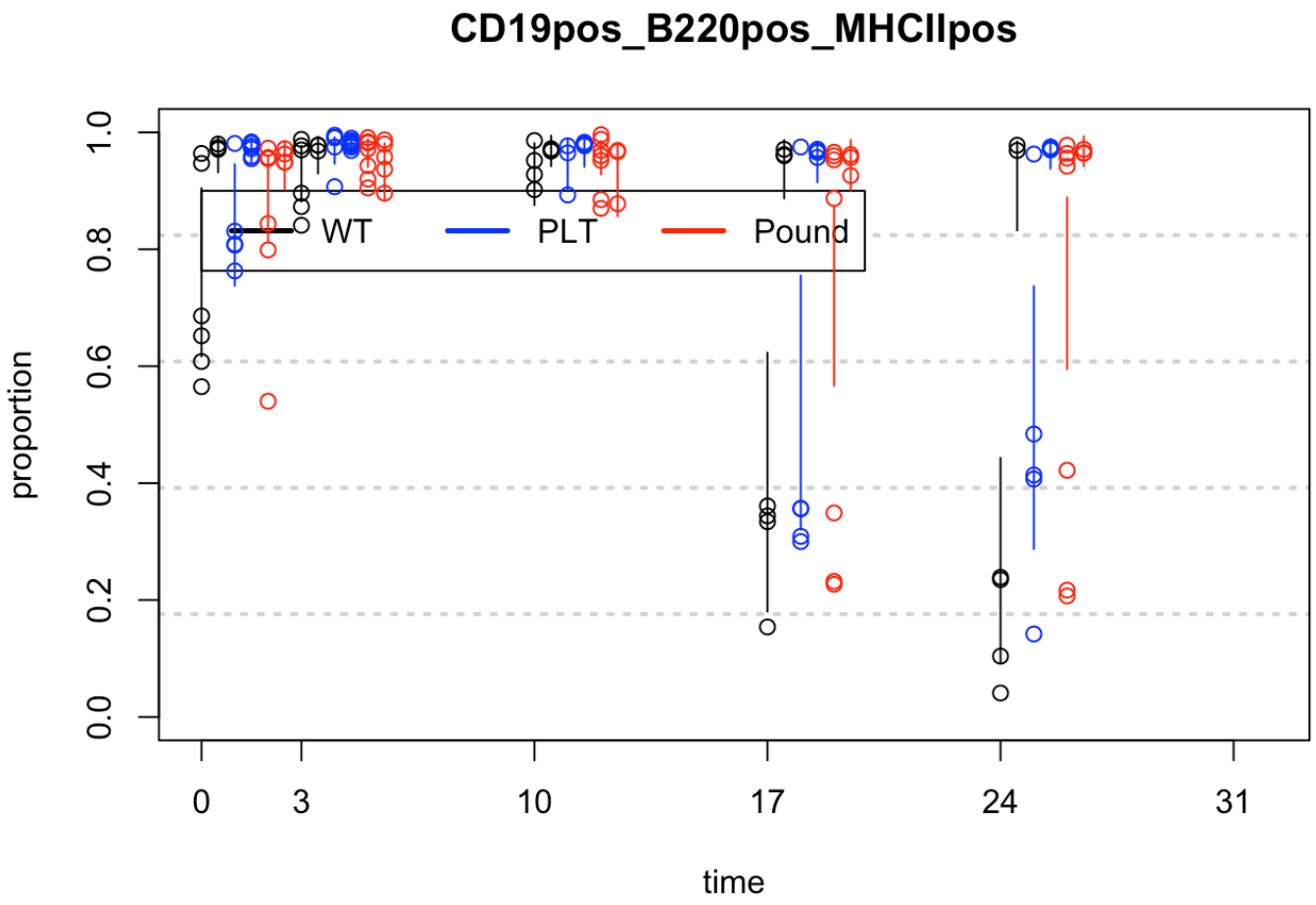
```
## [1] 35 77
```

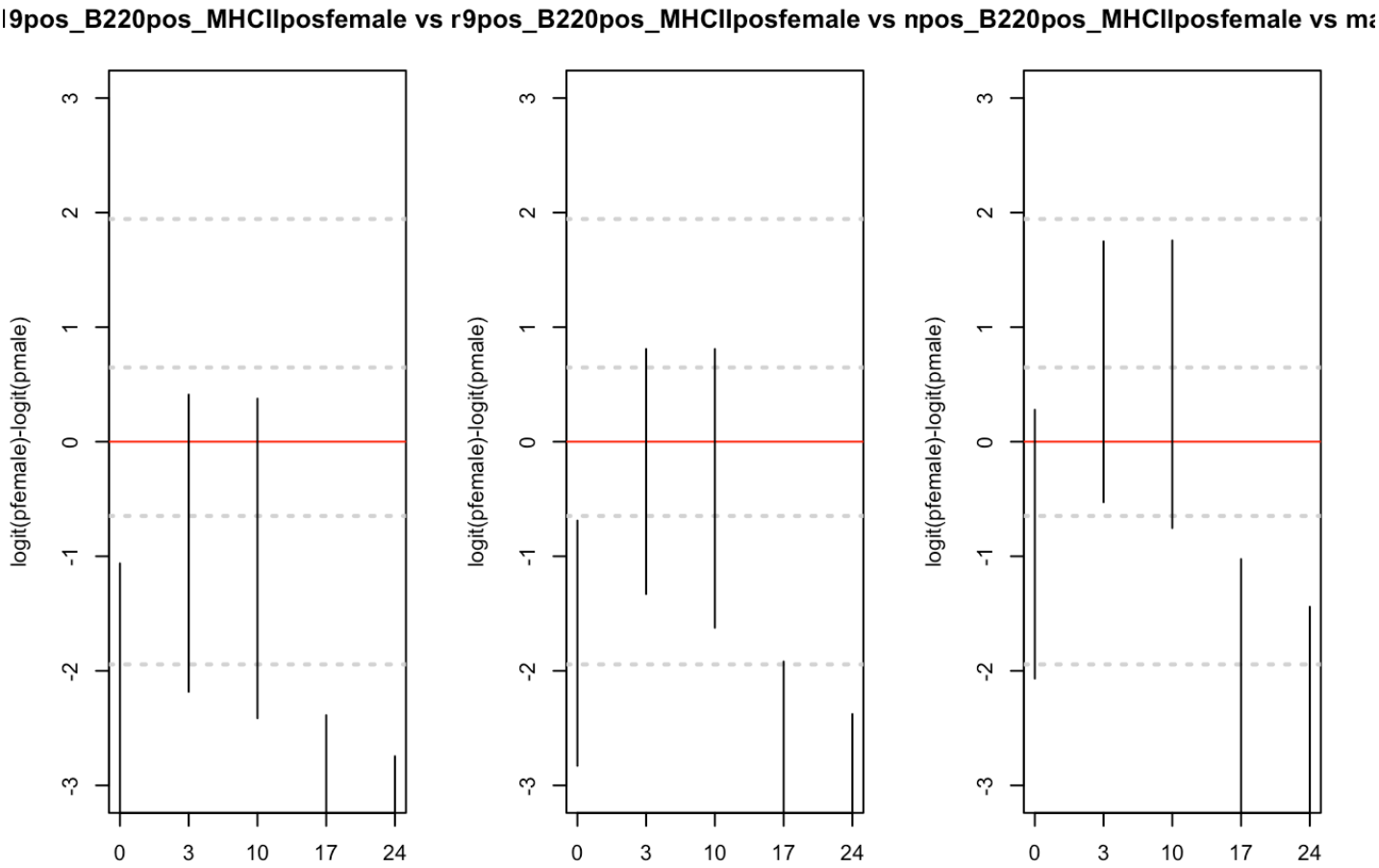
```
## Compiling model graph
##    Resolving undeclared variables
##    Allocating nodes
## Graph information:
##    Observed stochastic nodes: 146
##    Unobserved stochastic nodes: 443
##    Total graph size: 2930
##
## Initializing model
```





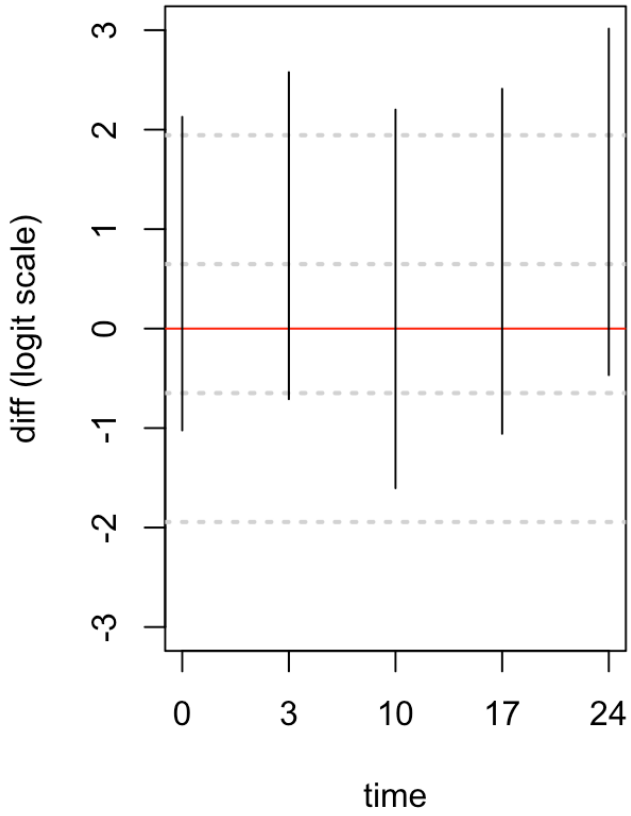

```
## [1] "got posteriors"
```

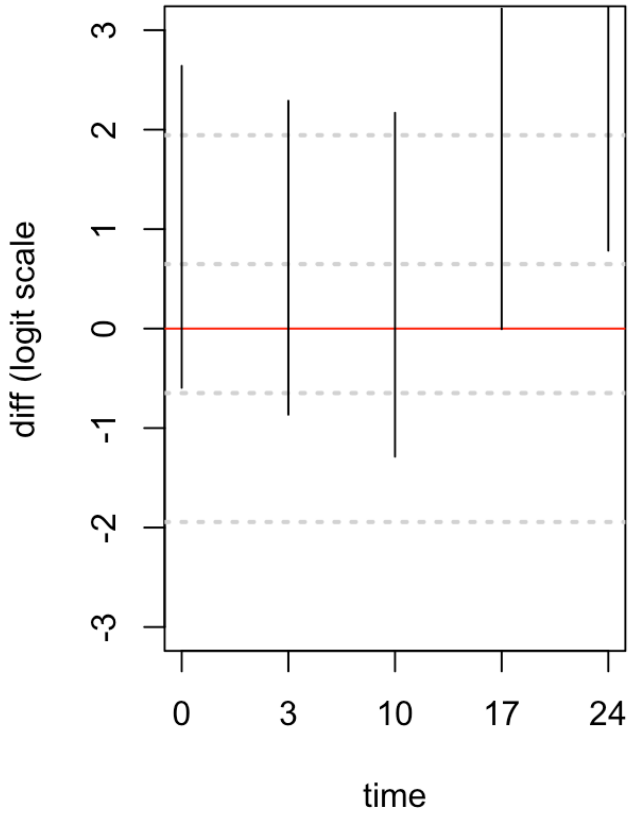

CD19pos_B220pos_MHCIIpos
proportion
0.0
0.2
0.4
0.6
0.8
1.0
WT
PLT
Pound
0
3
10
17
24
31
time

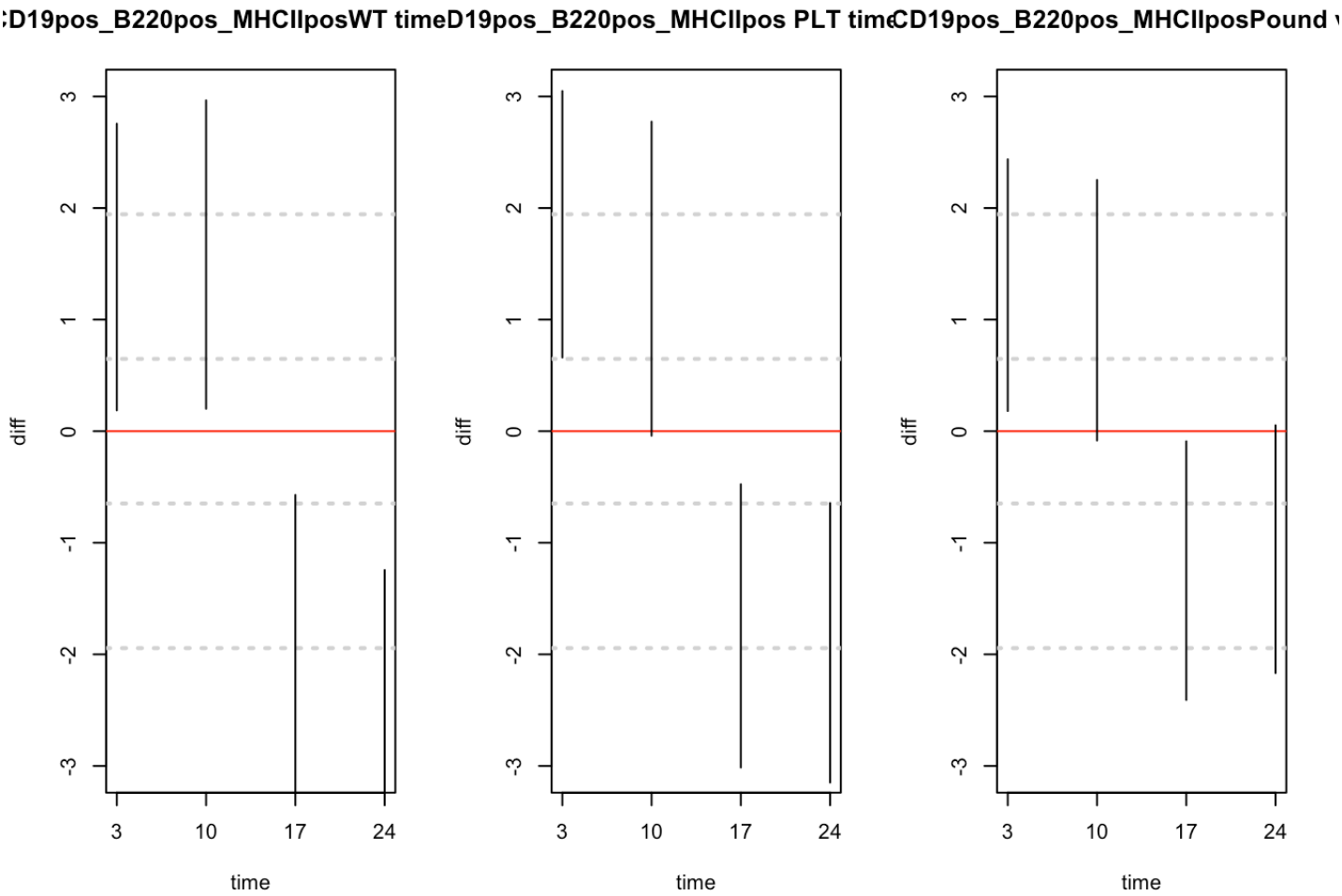

l9pos_B220pos_MHCIIposfemale vs r9pos_B220pos_MHCIIposfemale vs npos_B220pos_MHCIIposfemale vs ma
logit(pfemale)-logit(pmale)
3
2
1
0
-1
-2
-3
0
3
10
17
24

time time time

)19pos_B220pos_MHCIIposlogit PLT 9pos_B220pos_MHCIIpos logit Poun



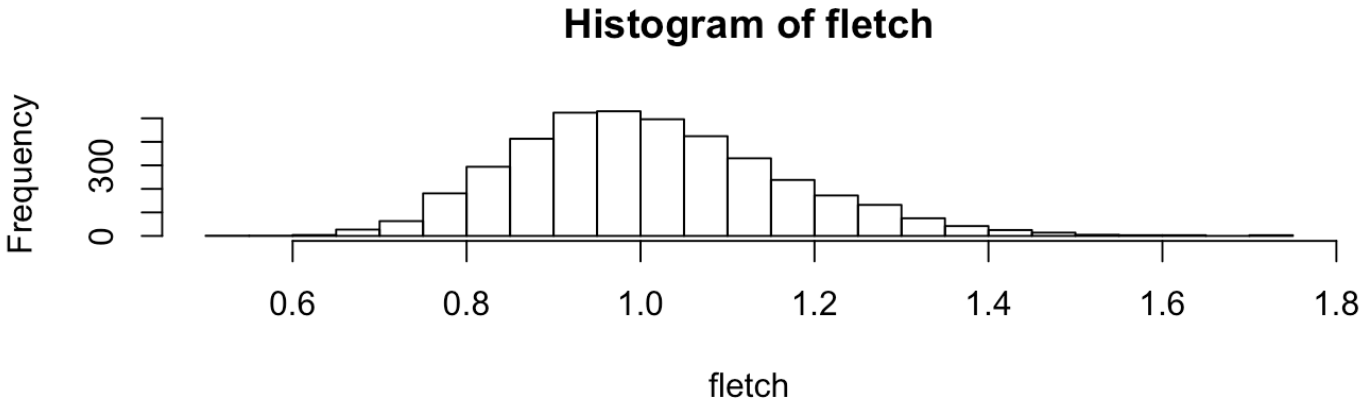


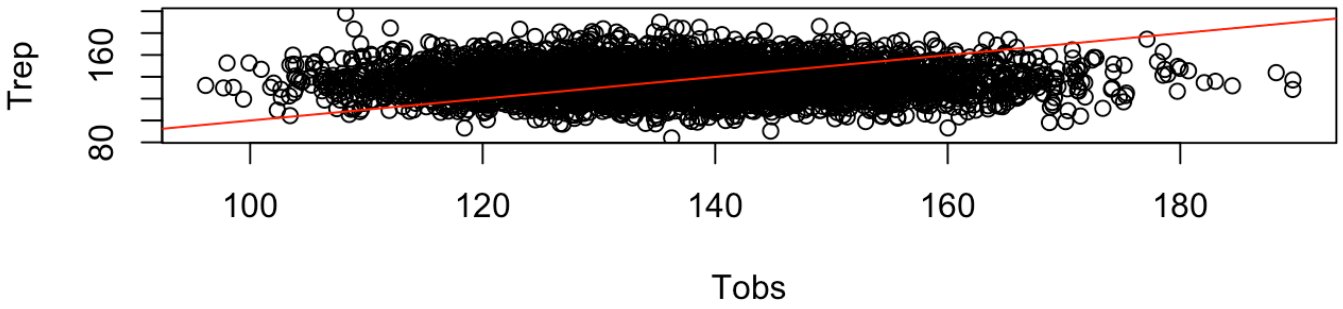


CD3pos

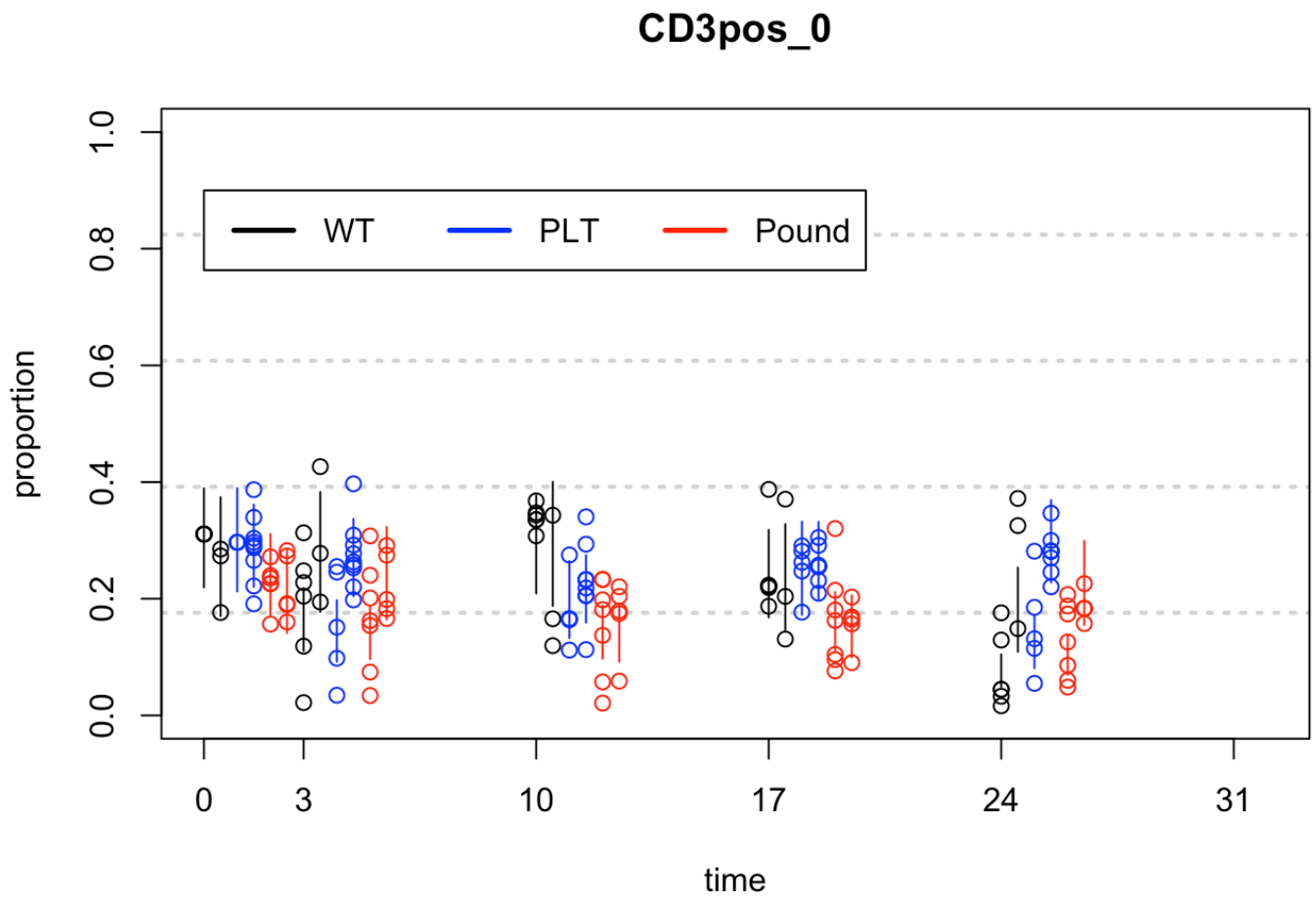
We are now on the second spreadsheet.

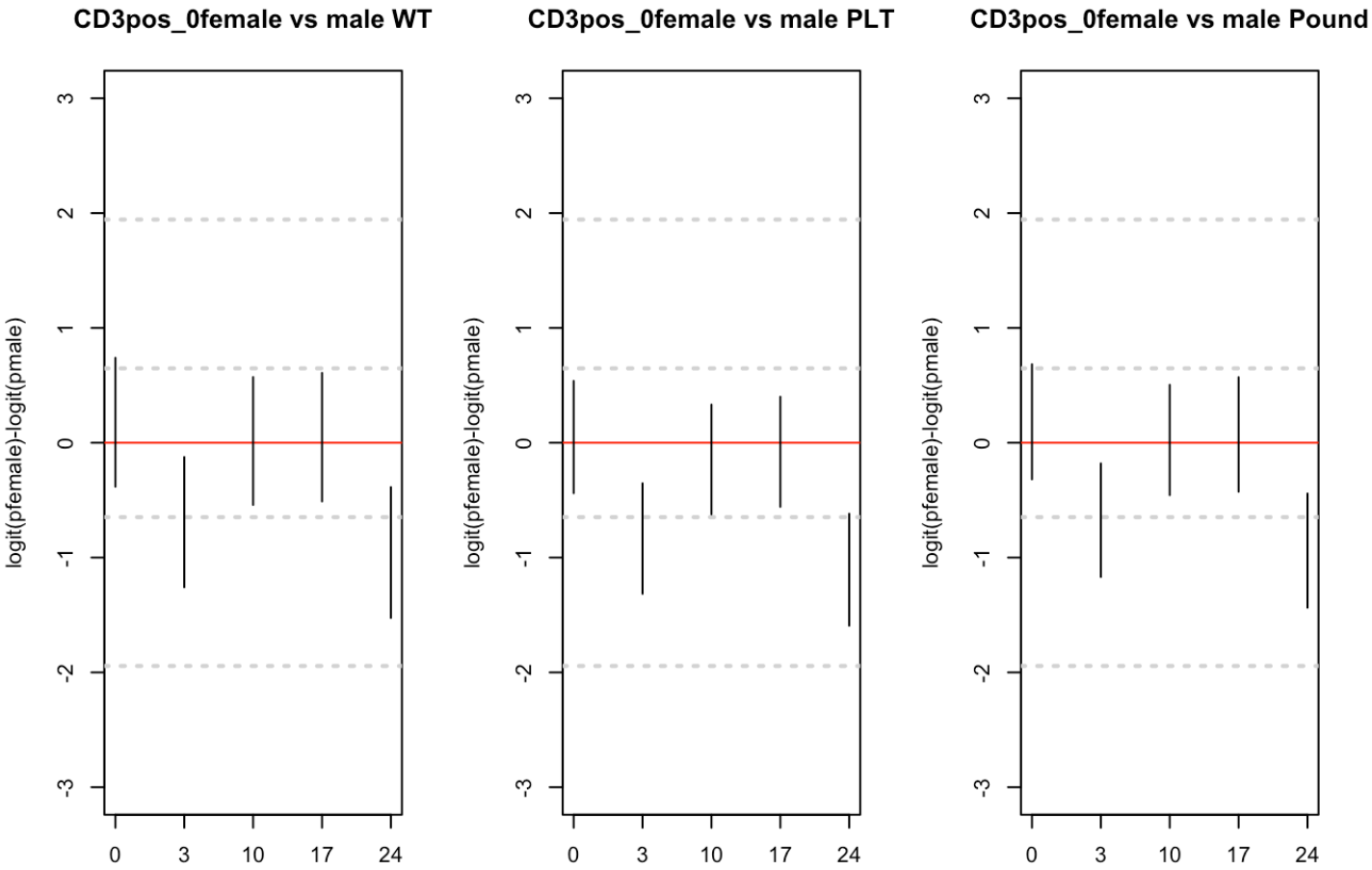
```
## Compiling model graph
##    Resolving undeclared variables
##    Allocating nodes
## Graph information:
##    Observed stochastic nodes: 175
##    Unobserved stochastic nodes: 414
##    Total graph size: 2930
##
## Initializing model
```






```
## [1] "got posteriors"
```

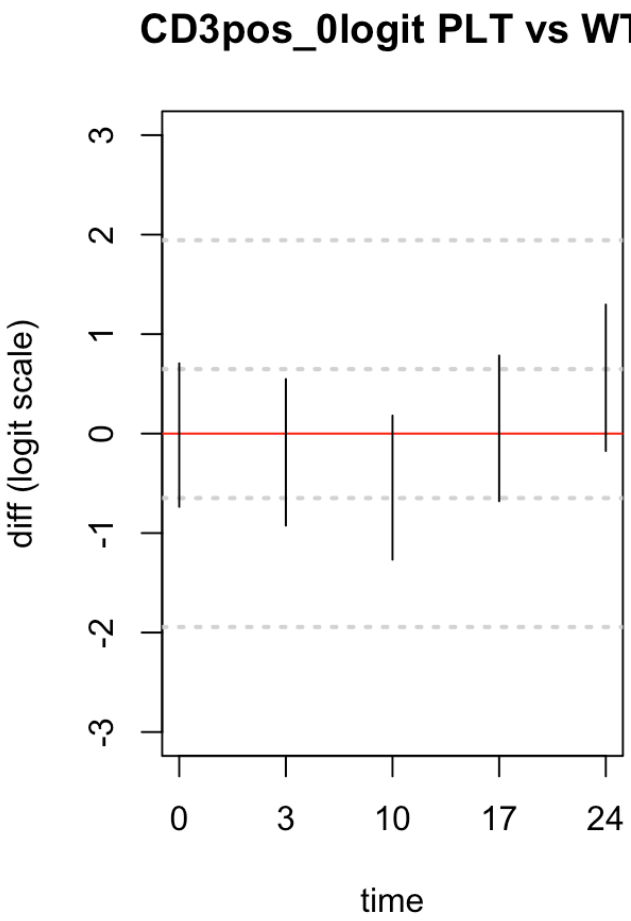

CD3pos_0
WT
PLT
Pound
proportion
0.0
0.2
0.4
0.6
0.8
1.0
0
3
10
17
24
31
time

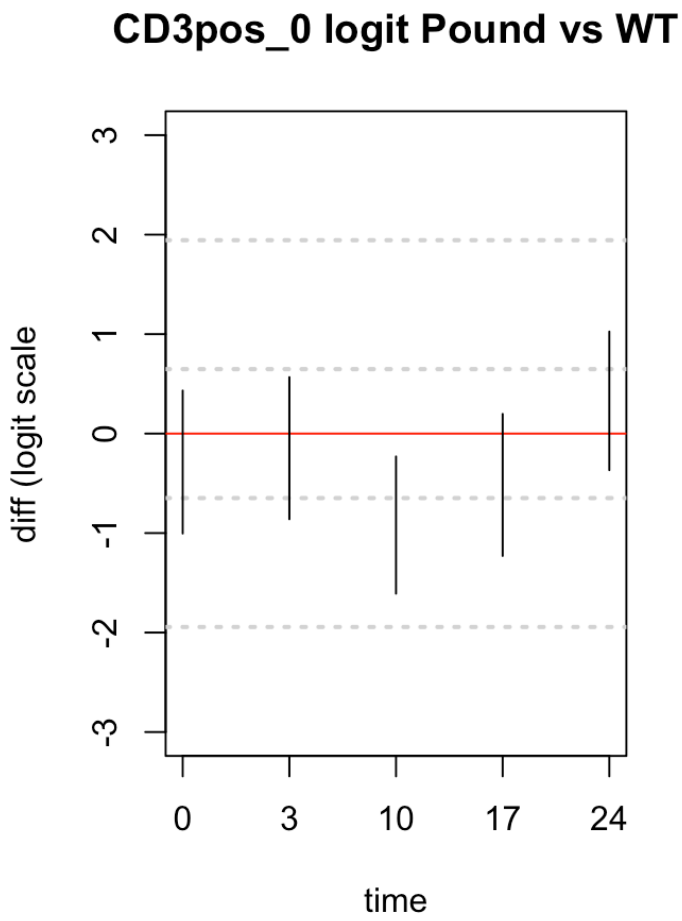

CD3pos_0female vs male WT
CD3pos_0female vs male PLT
CD3pos_0female vs male Pound
logit(pfemale)-logit(pmale)
-3
-2
-1
0
1
2
3
0
3
10
17
24

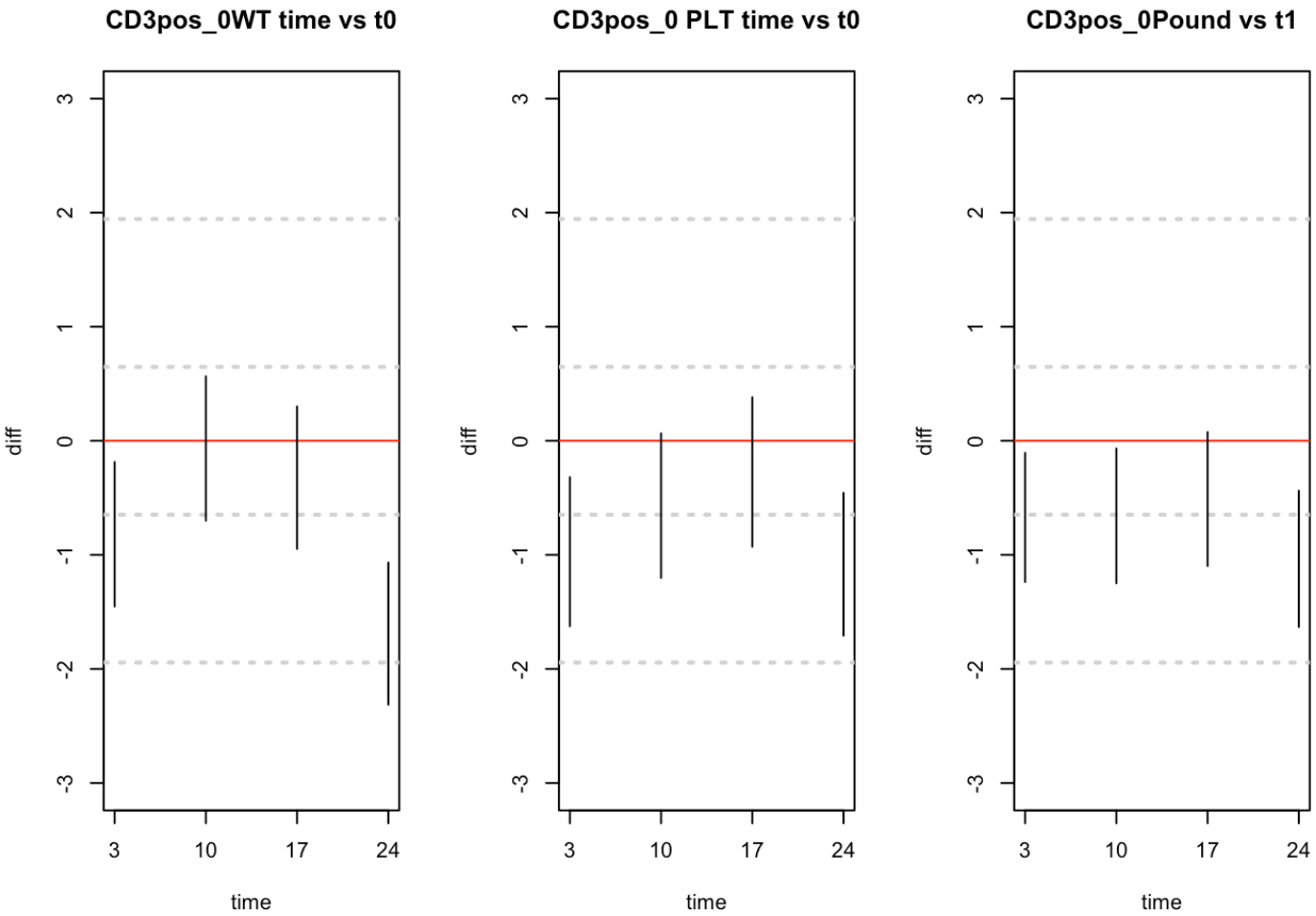
time

time

time

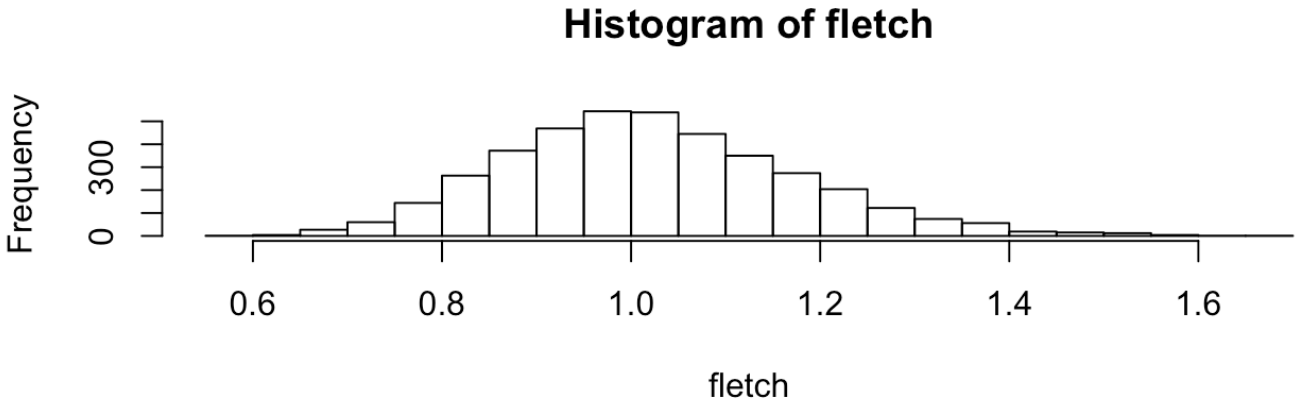


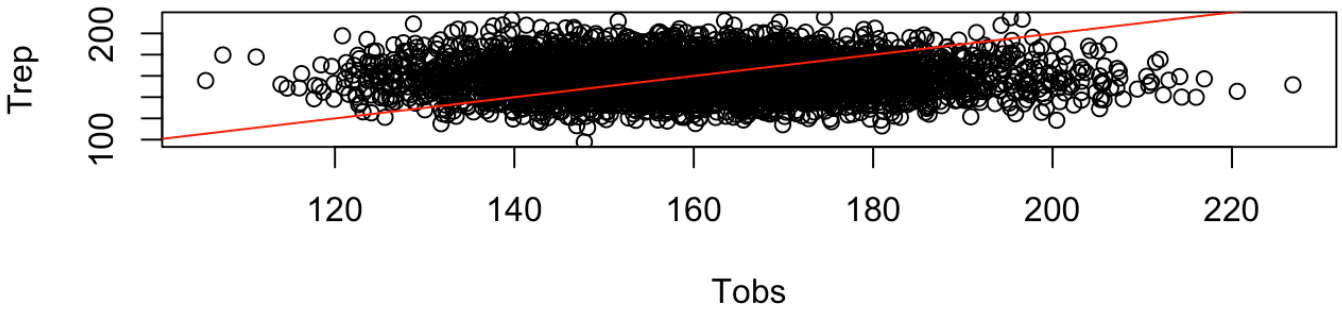




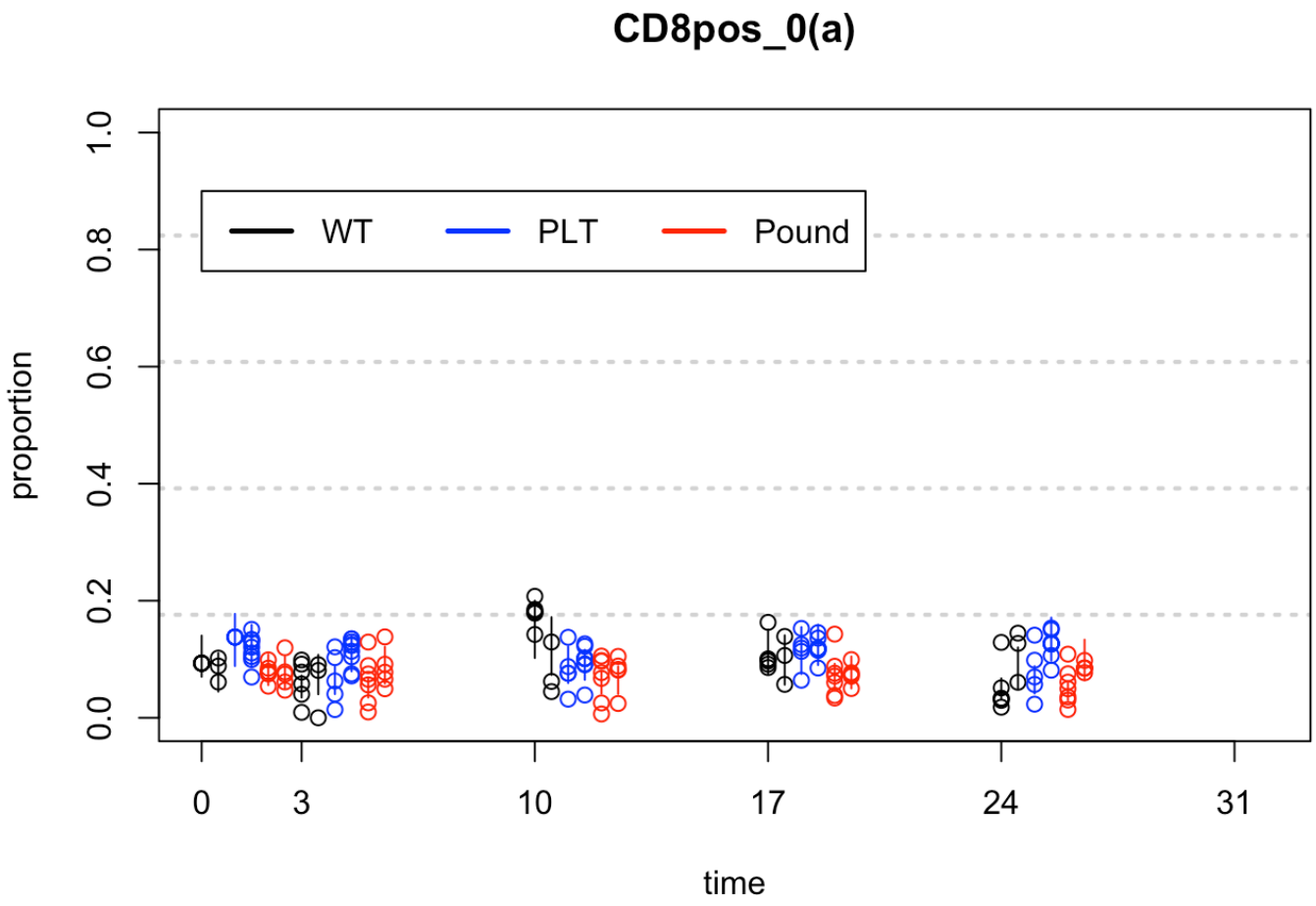
CD8pos (a) Percentage of live cells

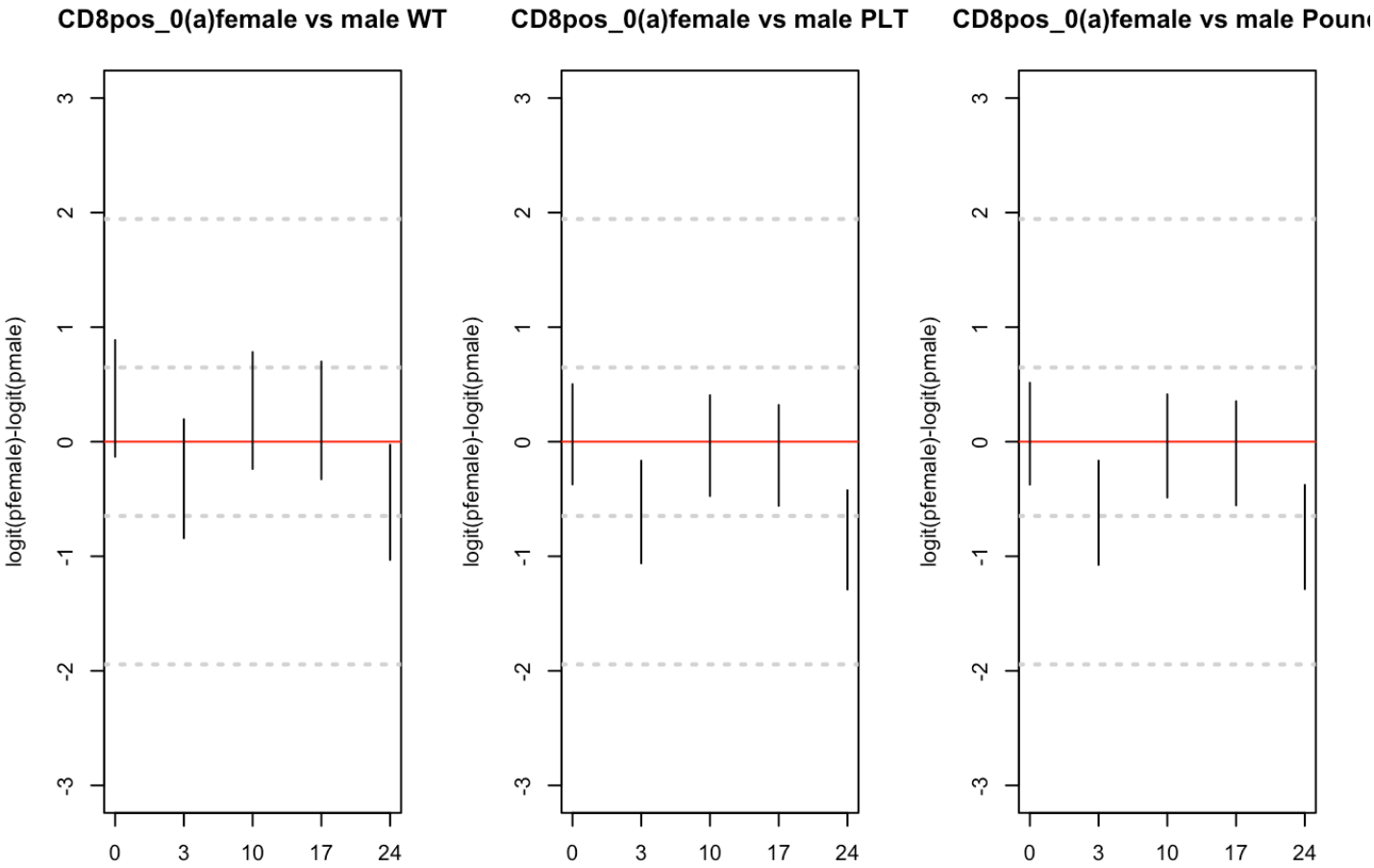
```
## Compiling model graph
##    Resolving undeclared variables
##    Allocating nodes
## Graph information:
##    Observed stochastic nodes: 175
##    Unobserved stochastic nodes: 414
##    Total graph size: 2930
##
## Initializing model
```



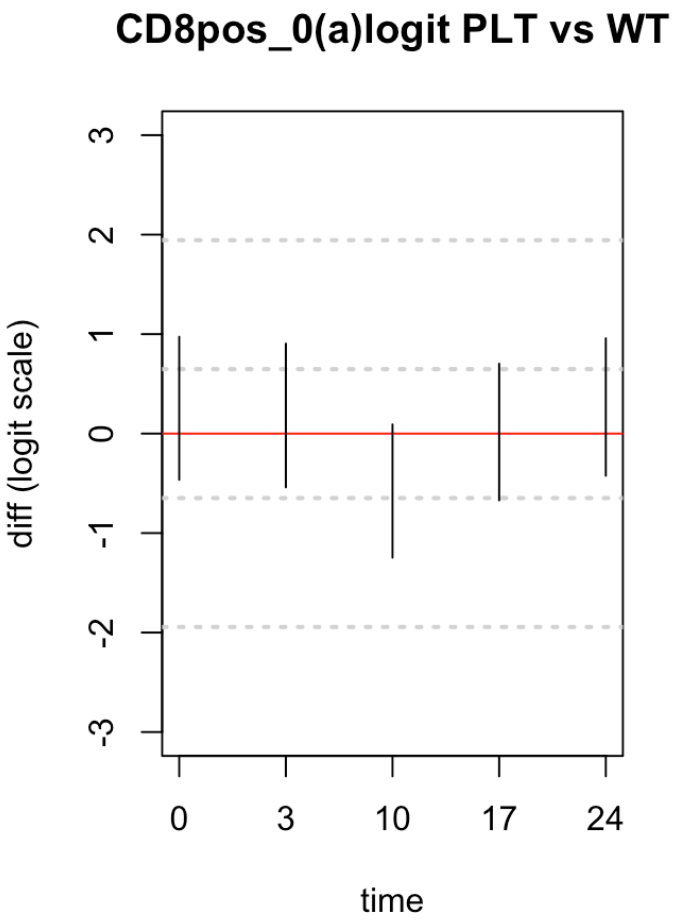


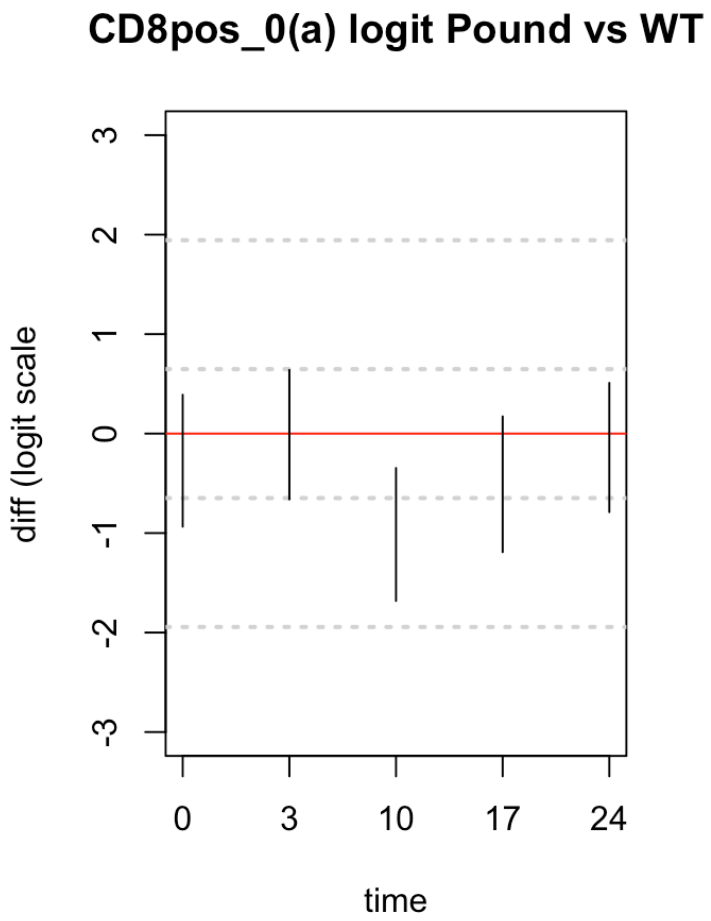

```
## [1] "got posteriors"
```

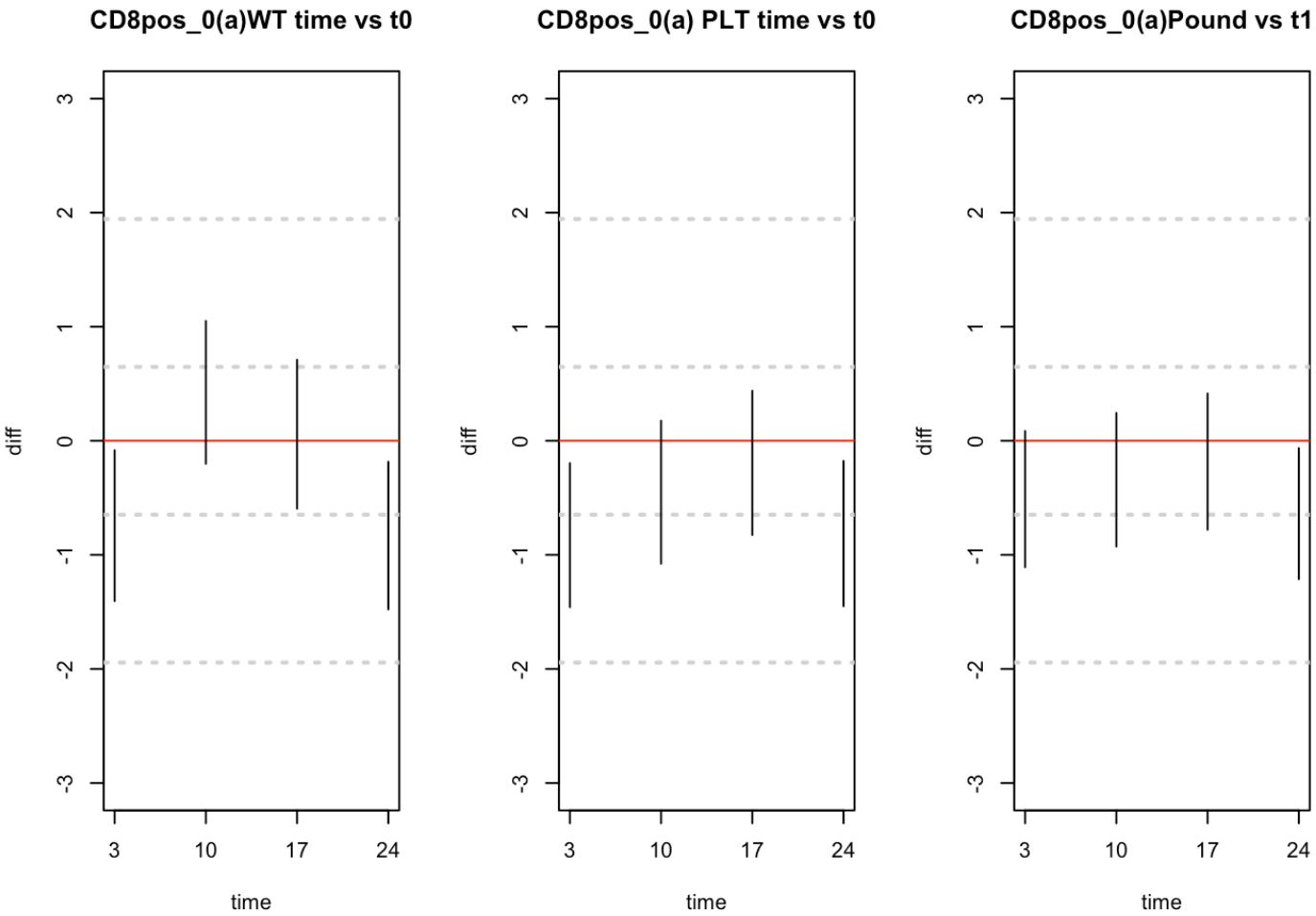

CD8pos_0(a)
WT
PLT
Pound
proportion
0.0
0.2
0.4
0.6
0.8
1.0
0
3
10
17
24
31
time


CD8pos_0(a)female vs male WT
CD8pos_0(a)female vs male PLT
CD8pos_0(a)female vs male Poun
logit(pfemale)-logit(pmale)
3
2
1
0
-1
-2
-3
0
3
10
17
24

time time time



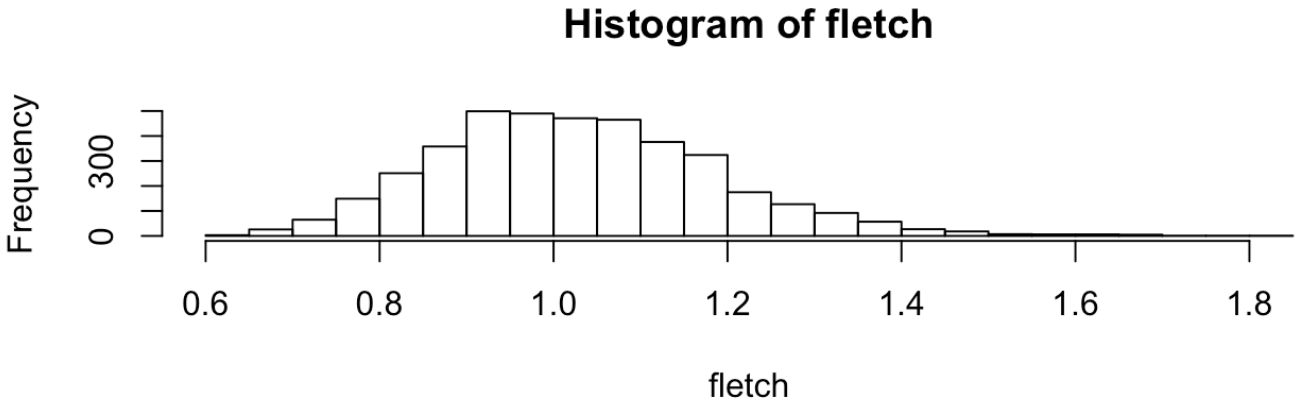


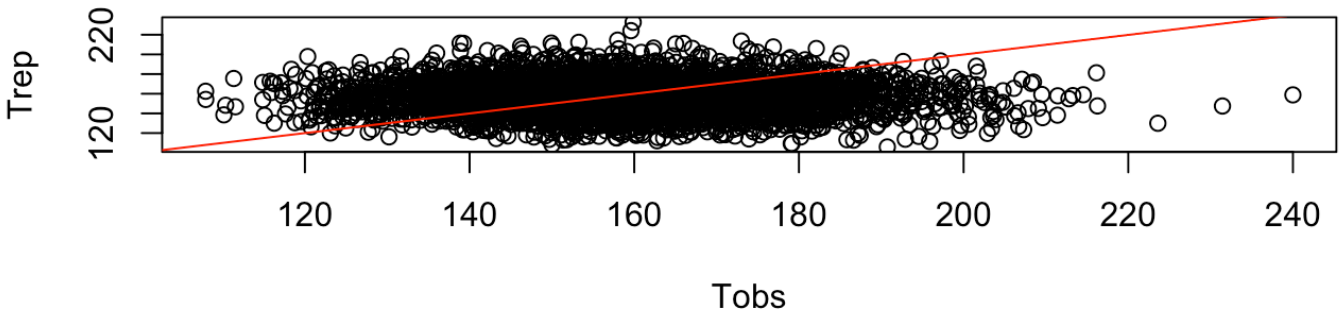


CD8pos (b) Percentage of CD3pos

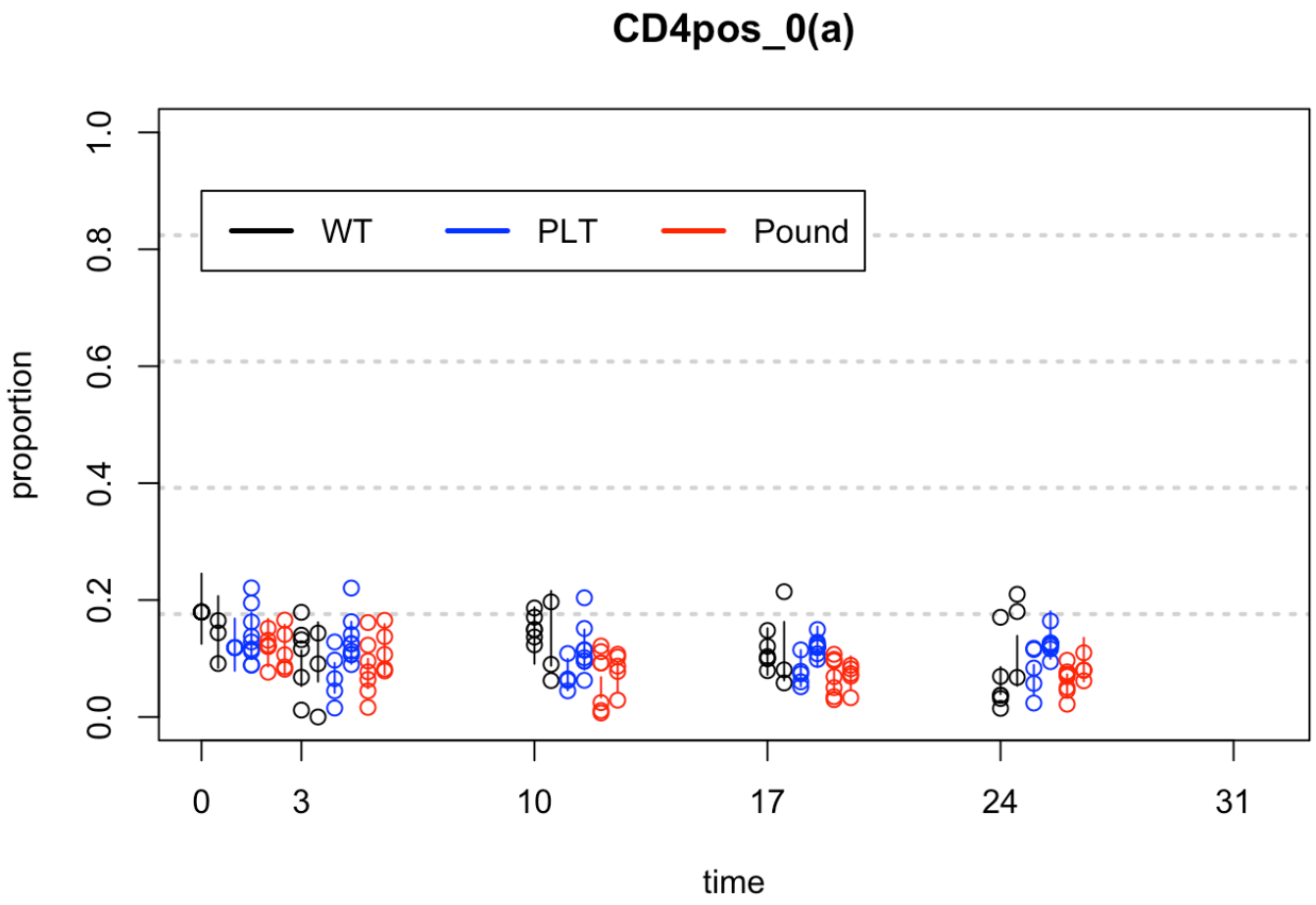
CD8pos (a) Percentage of live cells

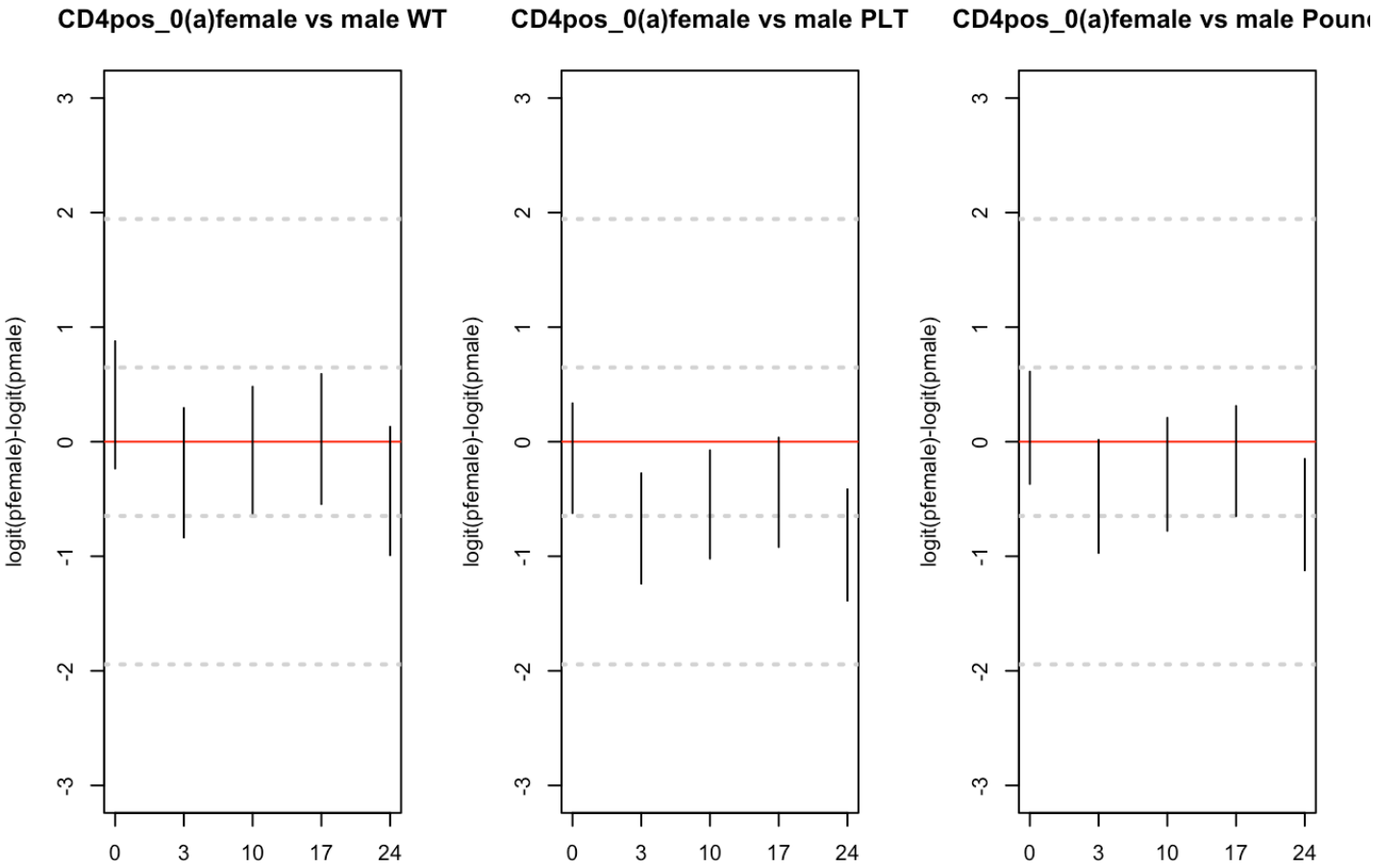
```
## Compiling model graph
##    Resolving undeclared variables
##    Allocating nodes
## Graph information:
##    Observed stochastic nodes: 175
##    Unobserved stochastic nodes: 414
##    Total graph size: 2930
##
## Initializing model
```



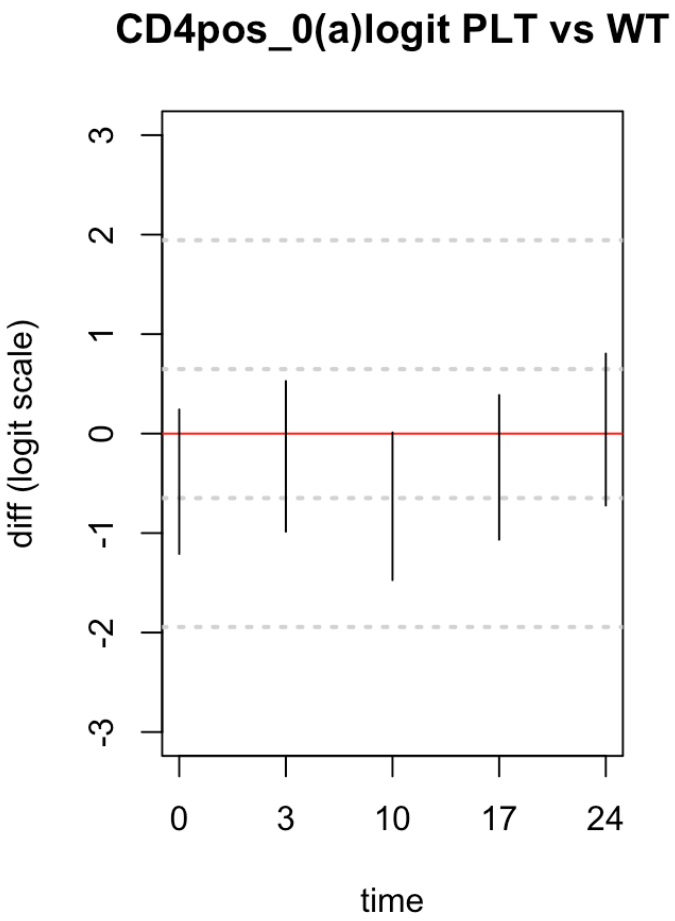


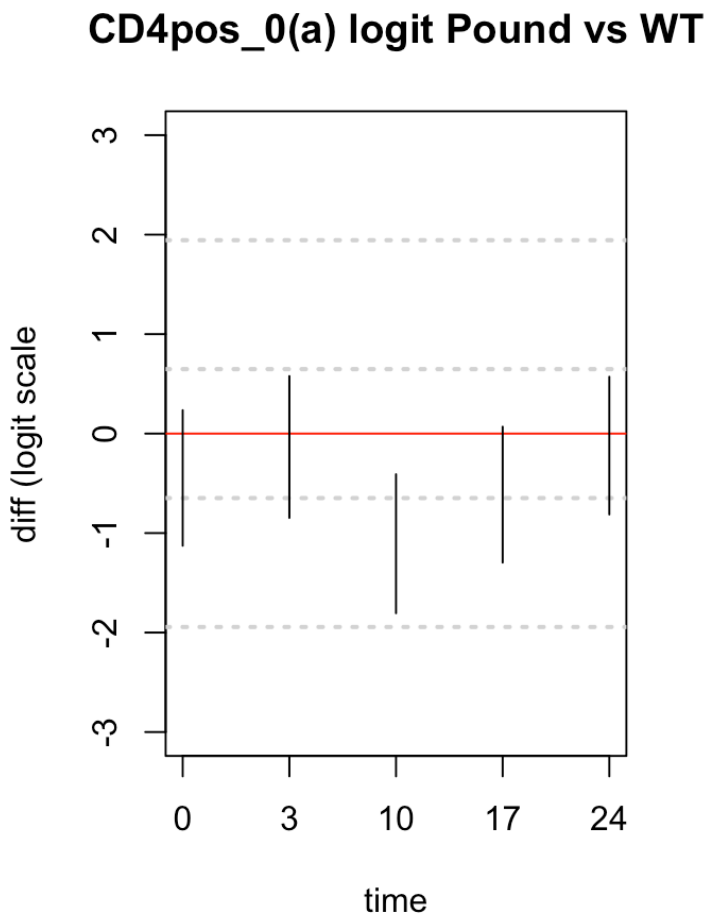

```
## [1] "got posteriors"
```

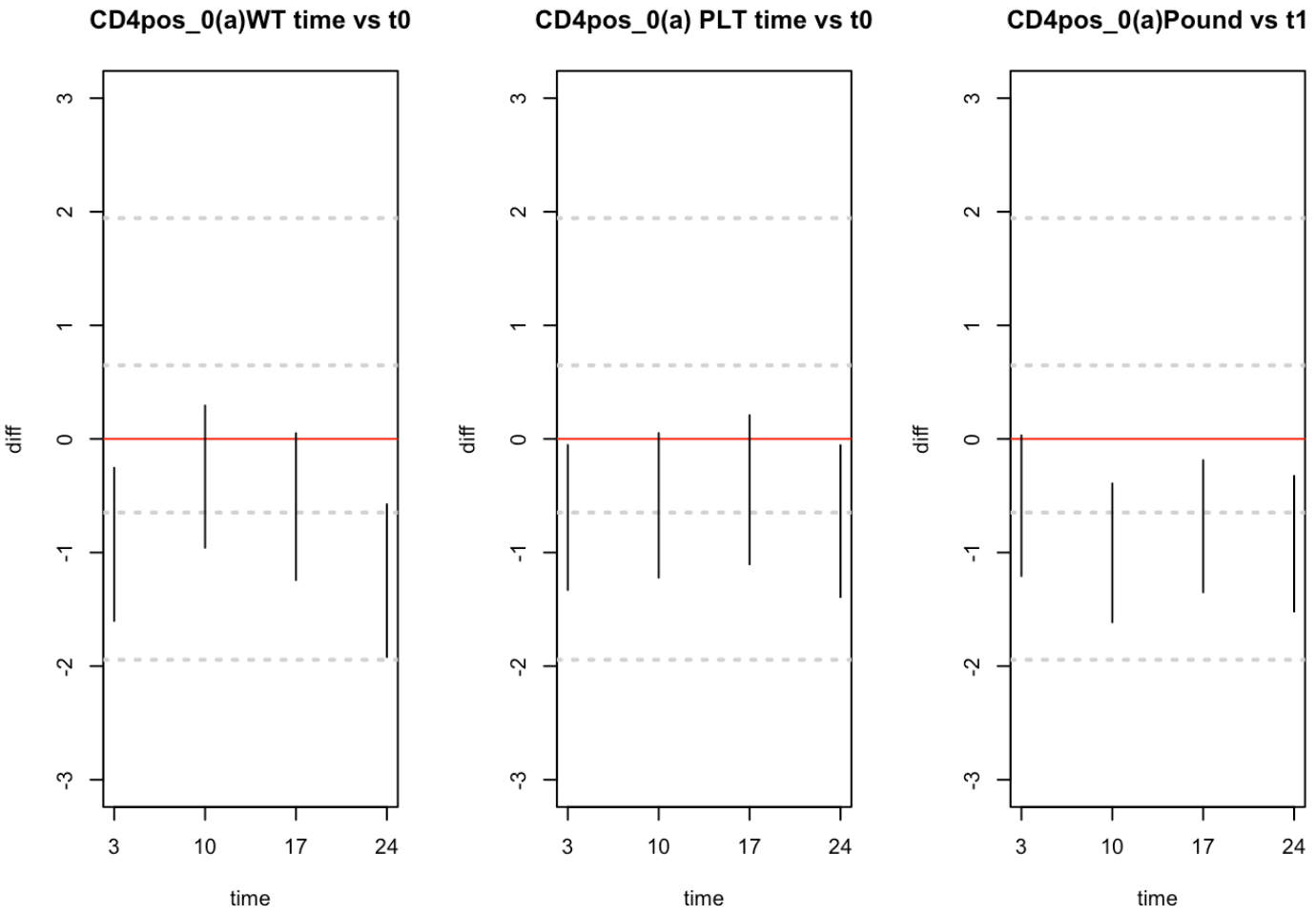

CD4pos_0(a)
WT
PLT
Pound
proportion
0.0
0.2
0.4
0.6
0.8
1.0
0
3
10
17
24
31
time


CD4pos_0(a)female vs male WT
CD4pos_0(a)female vs male PLT
CD4pos_0(a)female vs male Poun
logit(pfemale)-logit(pmale)
3
2
1
0
-1
-2
-3
0
3
10
17
24

time time time






CD4pos_0(a)WT time vs t0
CD4pos_0(a) PLT time vs t0
CD4pos_0(a)Pound vs t1
diff
time
3
10
17
24
-3
-2
-1
0
1
2
3