Spleen

Michel de Lange

11/3/2017

day 0

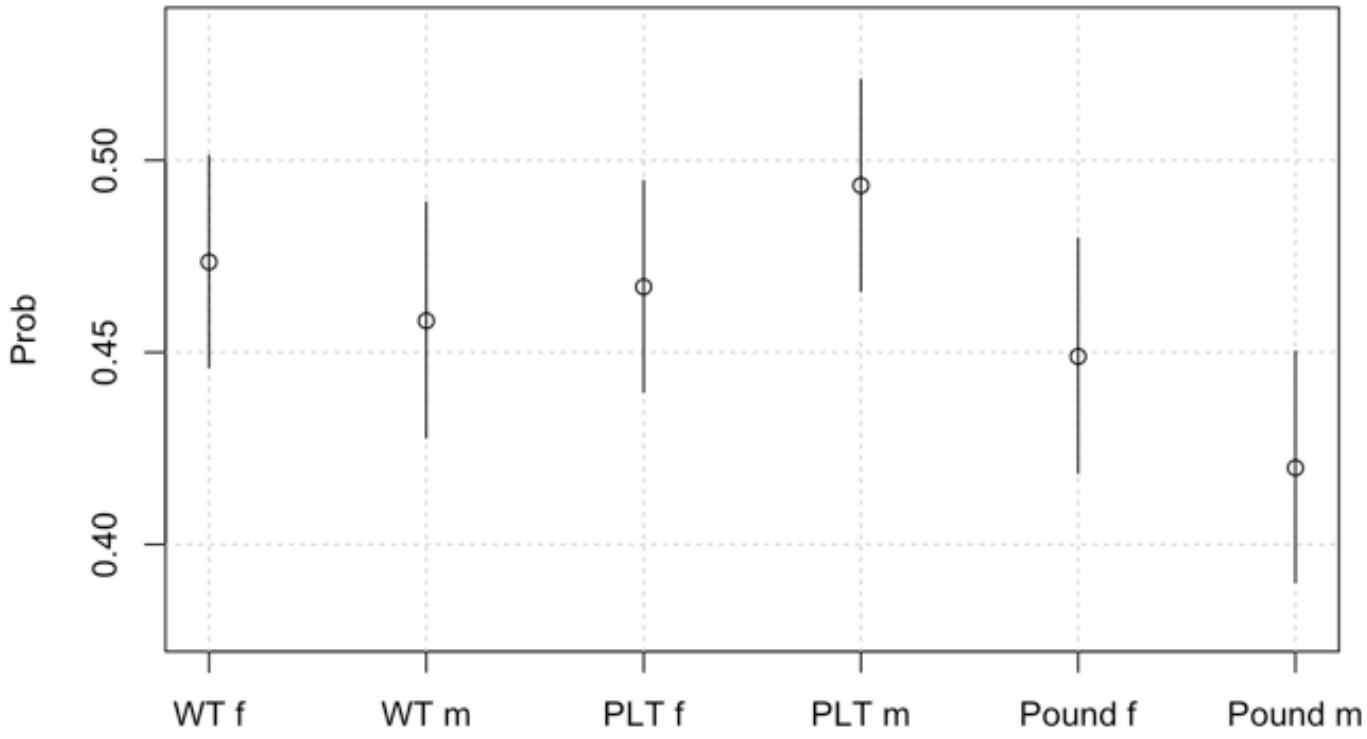
```
## [1] Pound f1 3 091622 Pound f1 3 091622
## 99 Levels: 10-M PLT2 male 5 (11)-205612 ...
```

```
## [1] 28 37
```

```
## [1] 28
```

CD19pos_B220pos_0

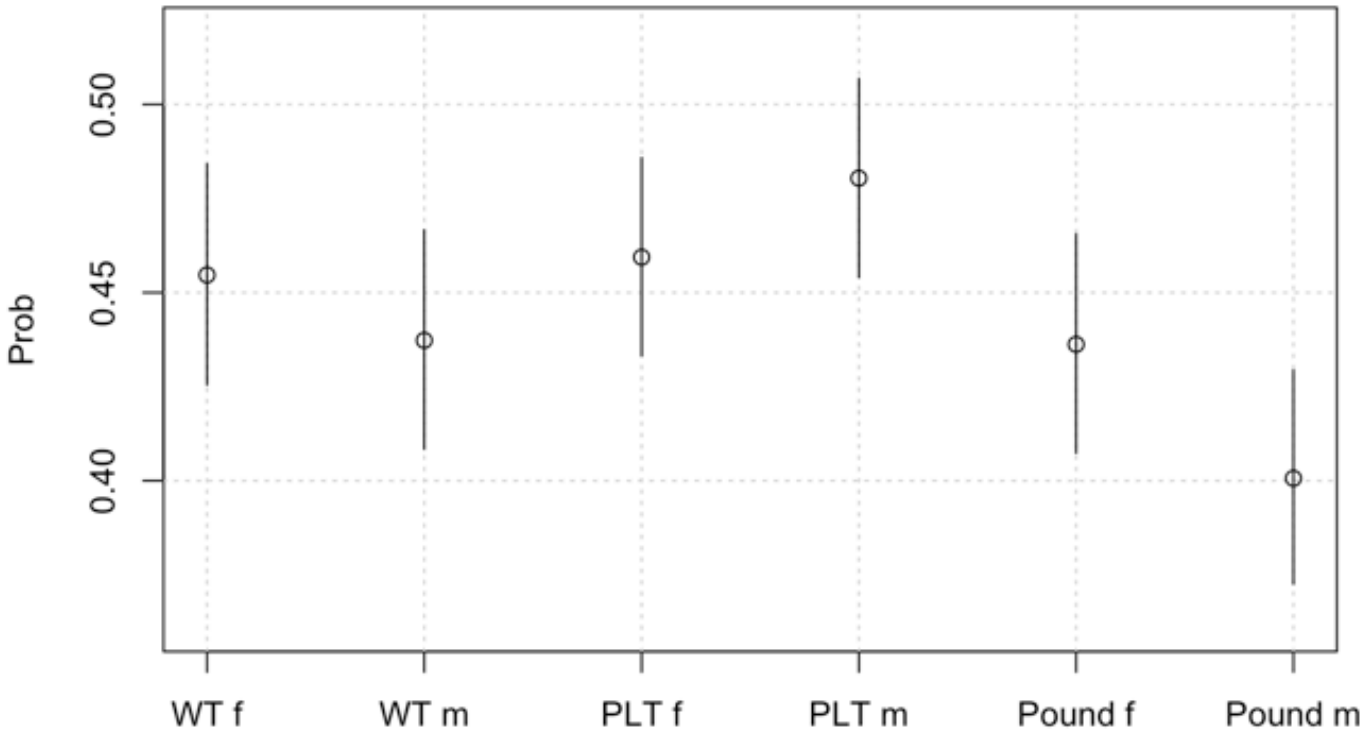
```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##       Min          1Q      Median          3Q         Max
## -0.250230  -0.075640   0.002812   0.063583   0.265143
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -0.16744    0.06180  -2.710   0.0131 *
## femaleTRUE            0.06153    0.08291   0.742   0.4662
## typePLT               0.14125    0.08291   1.704   0.1032
## typePound            -0.15564    0.08739  -1.781   0.0894 .
## femaleTRUE:typePLT   -0.16739    0.11395  -1.469   0.1566
## femaleTRUE:typePound  0.05657    0.12046   0.470   0.6435
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.01527477)
##
##     Null deviance: 0.54178  on 26  degrees of freedom
## Residual deviance: 0.32077  on 21  degrees of freedom
##   (1 observation deleted due to missingness)
## AIC: -29.065
##
## Number of Fisher Scoring iterations: 2
```



CD19pos_B220pos_MHCIIpos_0

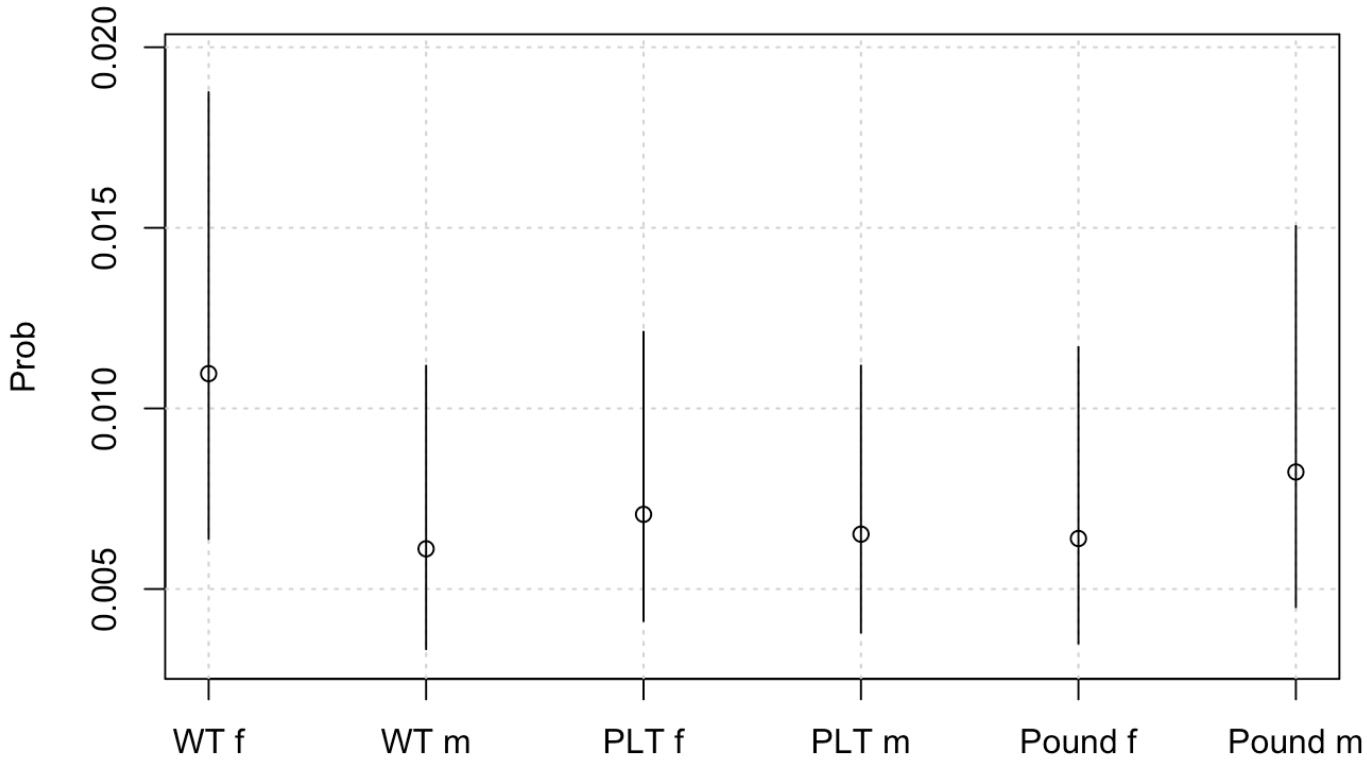
```
## Warning in log(p/(1 - p)): NaNs produced
```

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.23193  -0.07060  -0.01133   0.05406   0.27220
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -0.25209    0.05924  -4.255 0.000387 ***
## femaleTRUE            0.07026    0.08378   0.839 0.411634
## typePLT               0.17365    0.07948   2.185 0.040983 *
## typePound            -0.15075    0.08378  -1.799 0.087090 .
## femaleTRUE:typePLT   -0.15458    0.11241  -1.375 0.184294
## femaleTRUE:typePound  0.07612    0.11849   0.642 0.527891
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.01403936)
##
##     Null deviance: 0.54558  on 25  degrees of freedom
## Residual deviance: 0.28079  on 20  degrees of freedom
##   (2 observations deleted due to missingness)
## AIC: -29.95
##
## Number of Fisher Scoring iterations: 2
```



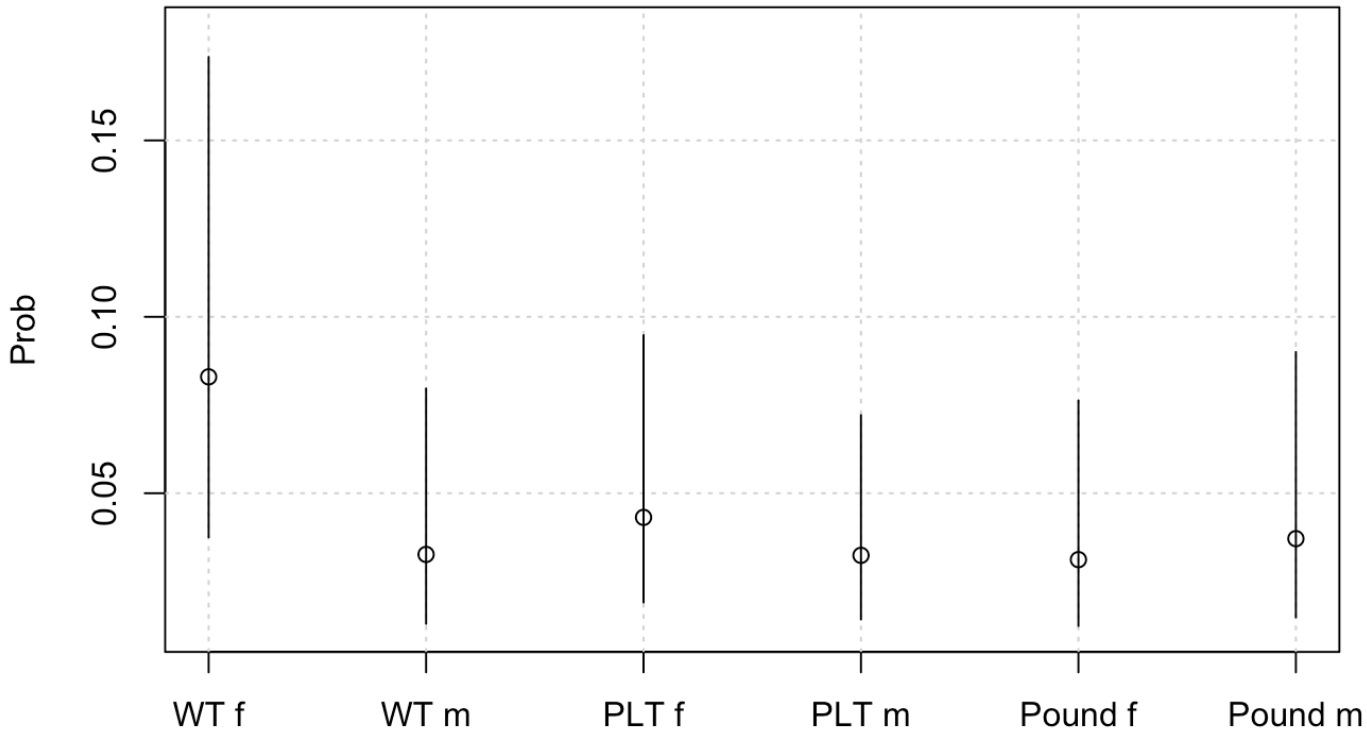
CD11cpos_0

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.72896  -0.26834  -0.00719   0.12582   2.36626
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -5.09115    0.30456 -16.716 1.31e-13 ***
## femaleTRUE            0.58899    0.40861   1.441    0.164
## typePLT               0.06457    0.40861   0.158    0.876
## typePound             0.30075    0.43071   0.698    0.493
## femaleTRUE:typePLT   -0.50765    0.56158  -0.904    0.376
## femaleTRUE:typePound -0.84388    0.59370  -1.421    0.170
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.3710255)
##
##     Null deviance: 8.9501  on 26  degrees of freedom
## Residual deviance: 7.7915  on 21  degrees of freedom
##   (1 observation deleted due to missingness)
## AIC: 57.067
##
## Number of Fisher Scoring iterations: 2
```



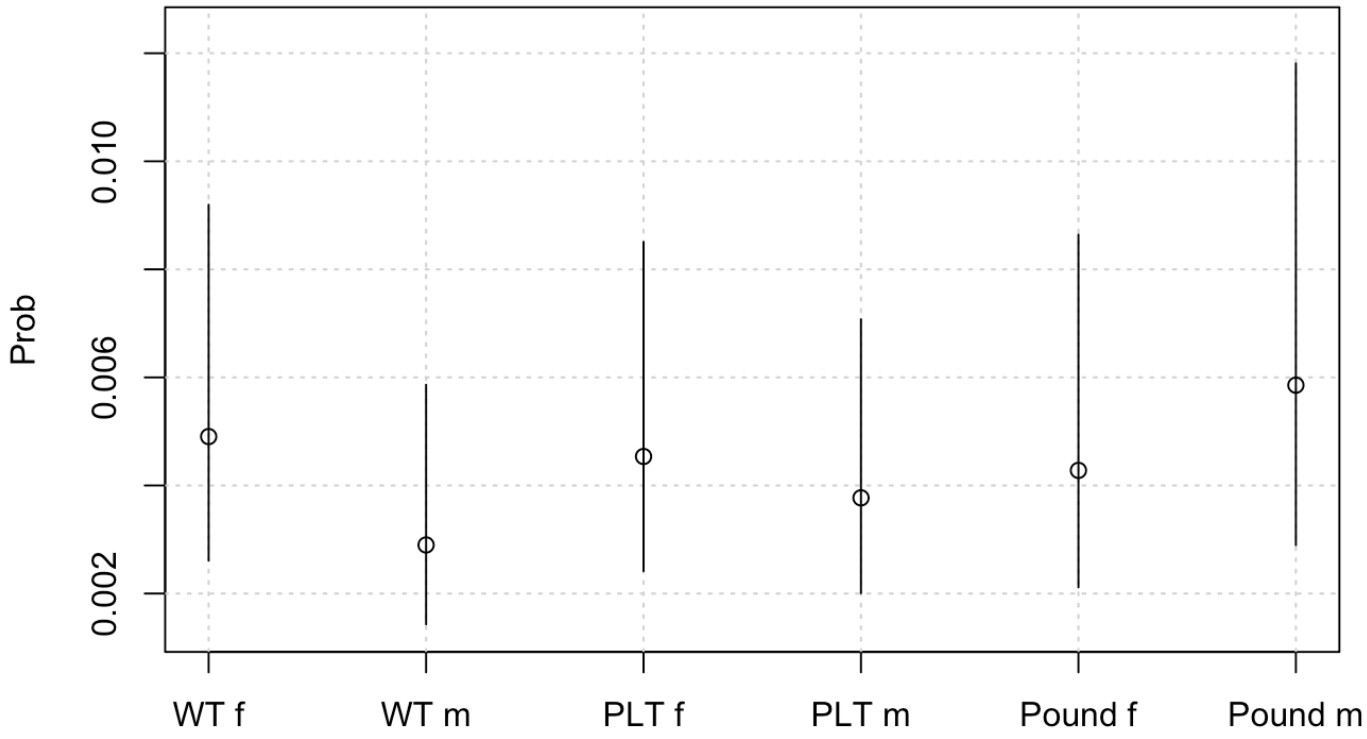
CD11bpos_0

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -1.1423  -0.1915  -0.0194   0.0562   3.7388
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -3.38857    0.47104  -7.194 4.33e-07 ***
## femaleTRUE            0.98616    0.63197   1.560    0.134
## typePLT              -0.00824    0.63197  -0.013    0.990
## typePound             0.13308    0.66615   0.200    0.844
## femaleTRUE:typePLT   -0.68818    0.86856  -0.792    0.437
## femaleTRUE:typePound -1.16696    0.91823  -1.271    0.218
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.8875209)
##
##     Null deviance: 22.348  on 26  degrees of freedom
## Residual deviance: 18.638  on 21  degrees of freedom
##   (1 observation deleted due to missingness)
## AIC: 80.615
##
## Number of Fisher Scoring iterations: 2
```



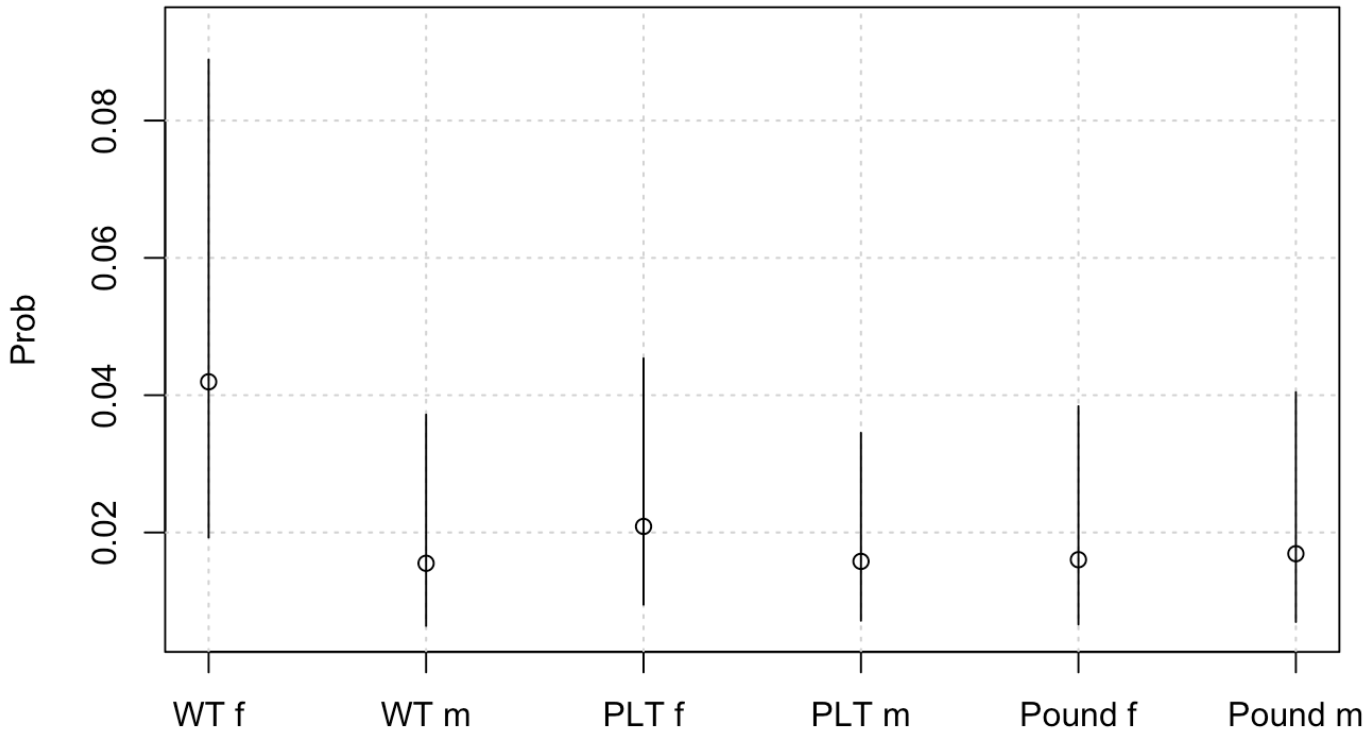
mMDSCs_0

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.97663  -0.31706   0.00072   0.15811   2.66544
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)           -5.8405     0.3537 -16.511 1.67e-13 ***
## femaleTRUE             0.5279     0.4746   1.112    0.279
## typePLT                0.2639     0.4746   0.556    0.584
## typePound              0.7061     0.5003   1.411    0.173
## femaleTRUE:typePLT    -0.3424     0.6523  -0.525    0.605
## femaleTRUE:typePound  -0.8433     0.6896  -1.223    0.235
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.5005225)
##
##     Null deviance: 11.711  on 26  degrees of freedom
## Residual deviance: 10.511  on 21  degrees of freedom
##   (1 observation deleted due to missingness)
## AIC: 65.15
##
## Number of Fisher Scoring iterations: 2
```



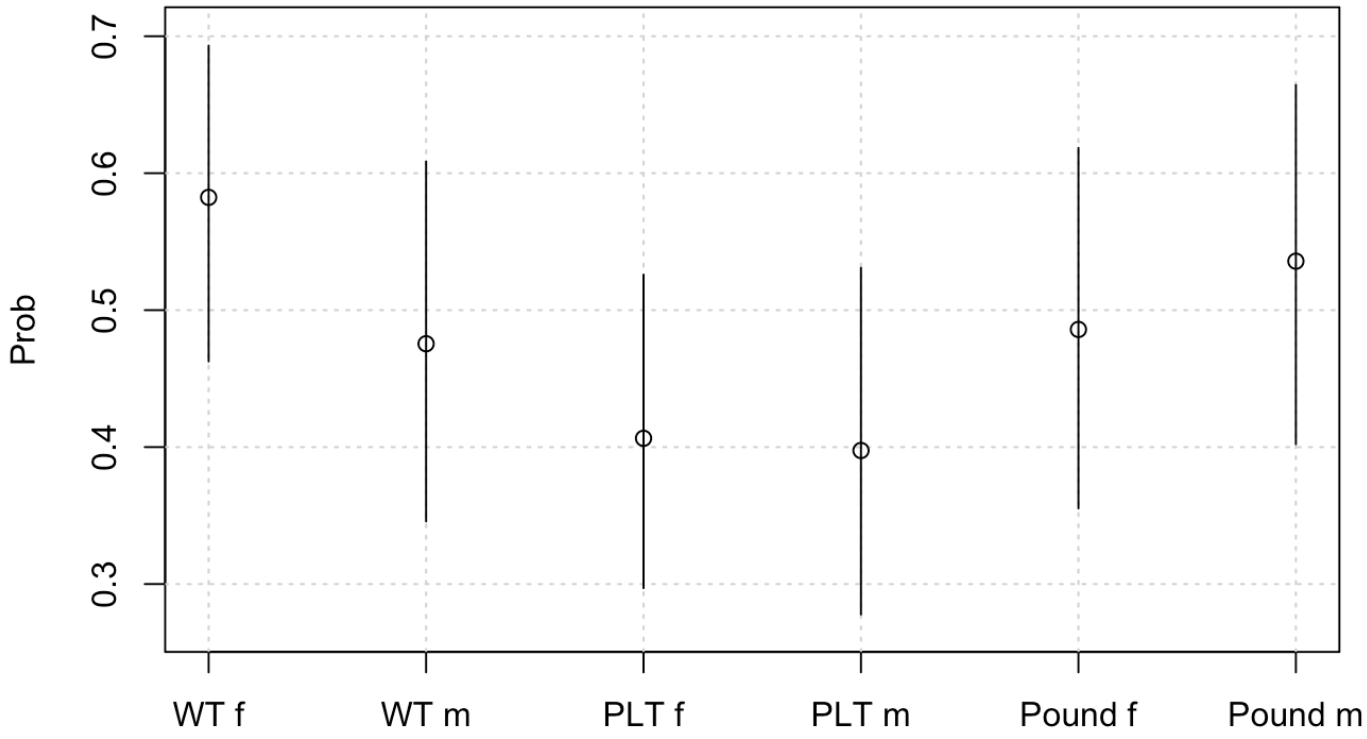
gMDSCs_0

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -1.0692  -0.1872  -0.0733   0.1036   3.4667
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -4.15027    0.44786  -9.267 7.22e-09 ***
## femaleTRUE            1.02187    0.60086   1.701    0.104
## typePLT               0.01807    0.60086   0.030    0.976
## typePound             0.08760    0.63337   0.138    0.891
## femaleTRUE:typePLT   -0.73729    0.82581  -0.893    0.382
## femaleTRUE:typePound -1.07574    0.87303  -1.232    0.231
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.8023048)
##
##     Null deviance: 20.645  on 26  degrees of freedom
## Residual deviance: 16.848  on 21  degrees of freedom
##   (1 observation deleted due to missingness)
## AIC: 77.89
##
## Number of Fisher Scoring iterations: 2
```



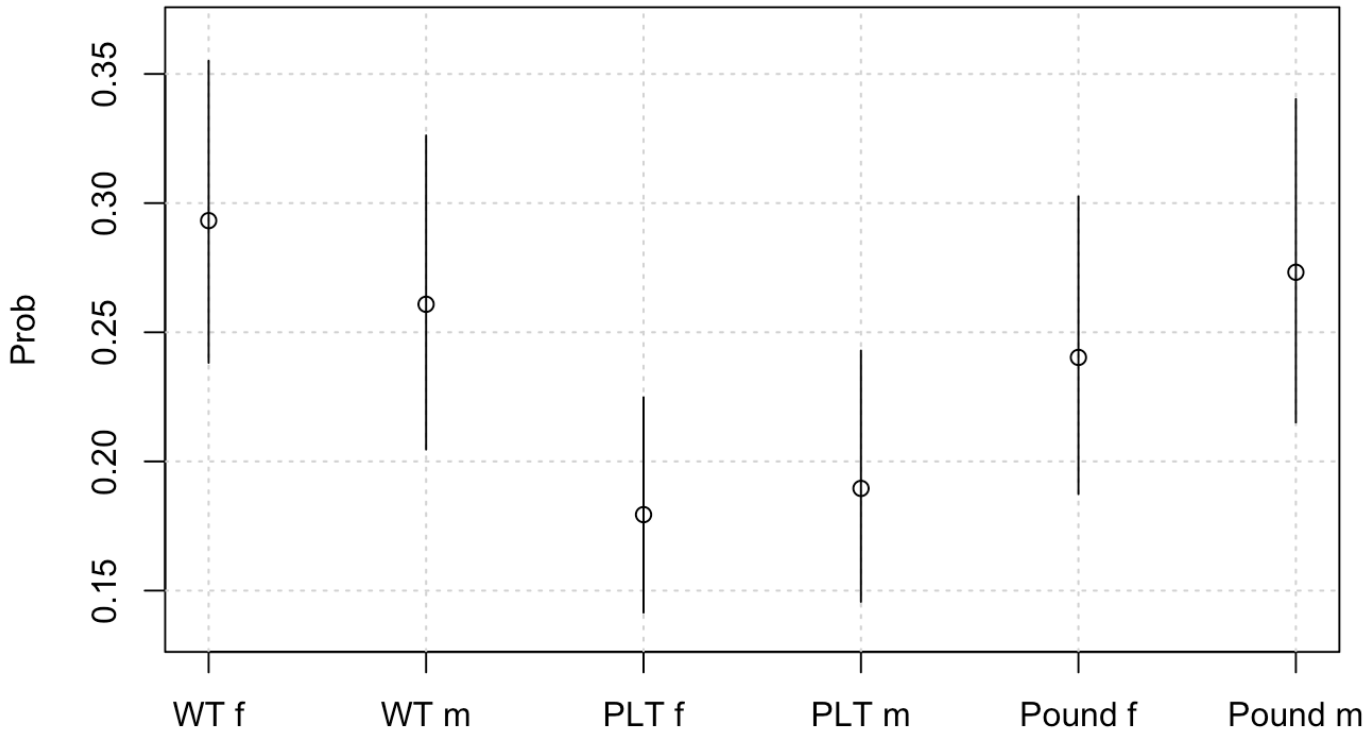
next set: CD3pos_0

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.57588  -0.16535  -0.03229   0.11570   2.08111
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -0.09822    0.26981  -0.364    0.720
## femaleTRUE            0.43065    0.36198   1.190    0.248
## typePLT              -0.31765    0.38156  -0.833    0.415
## typePound             0.24142    0.38156   0.633    0.534
## femaleTRUE:typePLT   -0.39362    0.51192  -0.769    0.451
## femaleTRUE:typePound -0.63029    0.52595  -1.198    0.245
##
## (Dispersion parameter for gaussian family taken to be 0.291179)
##
##     Null deviance: 7.7739  on 25  degrees of freedom
## Residual deviance: 5.8236  on 20  degrees of freedom
##   (2 observations deleted due to missingness)
## AIC: 48.884
##
## Number of Fisher Scoring iterations: 2
```



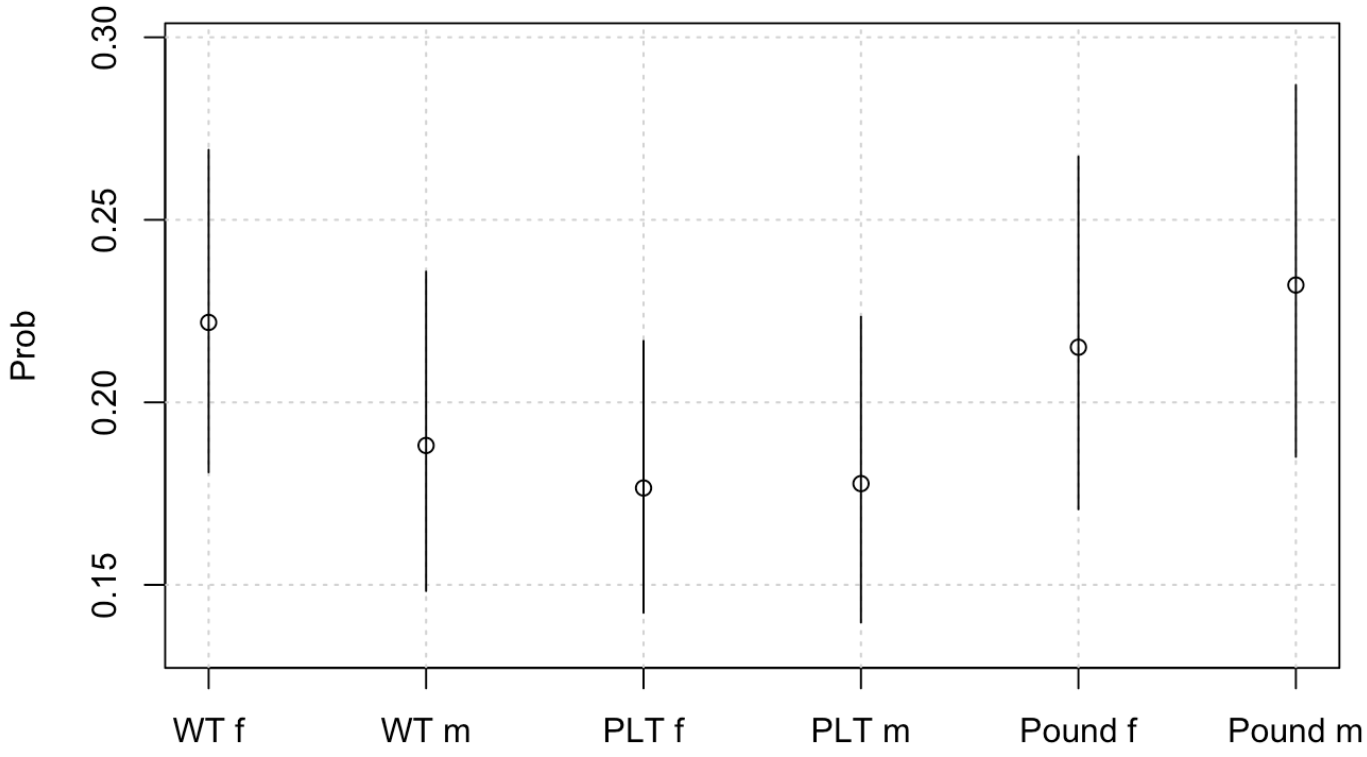
next set: CD4pos_0

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.33579  -0.16613  -0.02047   0.09608   1.15978
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -1.04160    0.15809  -6.589 2.03e-06 ***
## femaleTRUE            0.16184    0.21209   0.763   0.4543
## typePLT              -0.41127    0.22357  -1.840   0.0807 .
## typePound             0.06335    0.22357   0.283   0.7798
## femaleTRUE:typePLT   -0.22931    0.29995  -0.764   0.4535
## femaleTRUE:typePound -0.33479    0.30817  -1.086   0.2902
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.09996503)
##
##     Null deviance: 3.5684  on 25  degrees of freedom
## Residual deviance: 1.9993  on 20  degrees of freedom
##   (2 observations deleted due to missingness)
## AIC: 21.087
##
## Number of Fisher Scoring iterations: 2
```



next set: CD8pos_0

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.32192  -0.13489  -0.02419   0.08144   1.03251
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -1.46184    0.14305 -10.219  2.2e-09 ***
## femaleTRUE            0.20717    0.19192   1.079    0.293
## typePLT              -0.06993    0.20230  -0.346    0.733
## typePound             0.26556    0.20230   1.313    0.204
## femaleTRUE:typePLT   -0.21540    0.27142  -0.794    0.437
## femaleTRUE:typePound -0.30535    0.27886  -1.095    0.287
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.08185455)
##
##     Null deviance: 2.1268  on 25  degrees of freedom
## Residual deviance: 1.6371  on 20  degrees of freedom
##   (2 observations deleted due to missingness)
## AIC: 15.89
##
## Number of Fisher Scoring iterations: 2
```

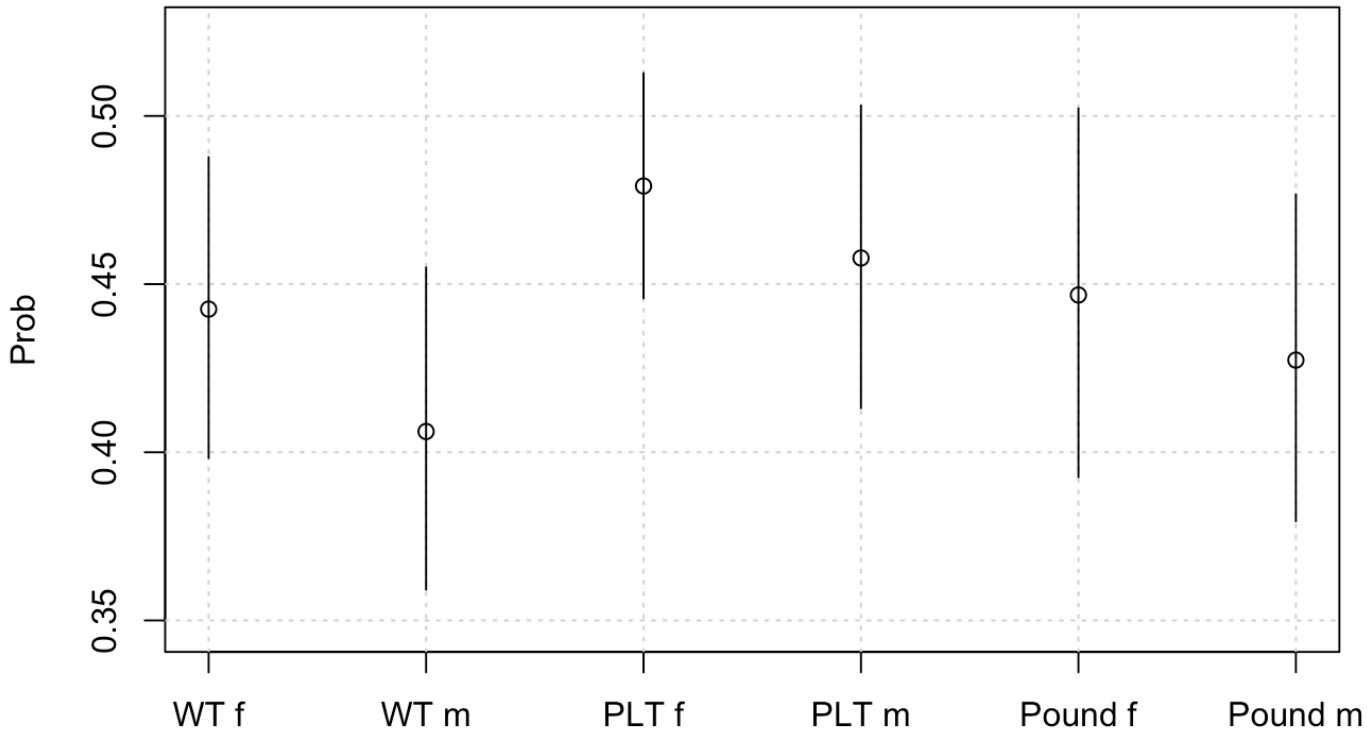


day 7

```
## [1] 174931 214912 184582 178199 234732  16176
```

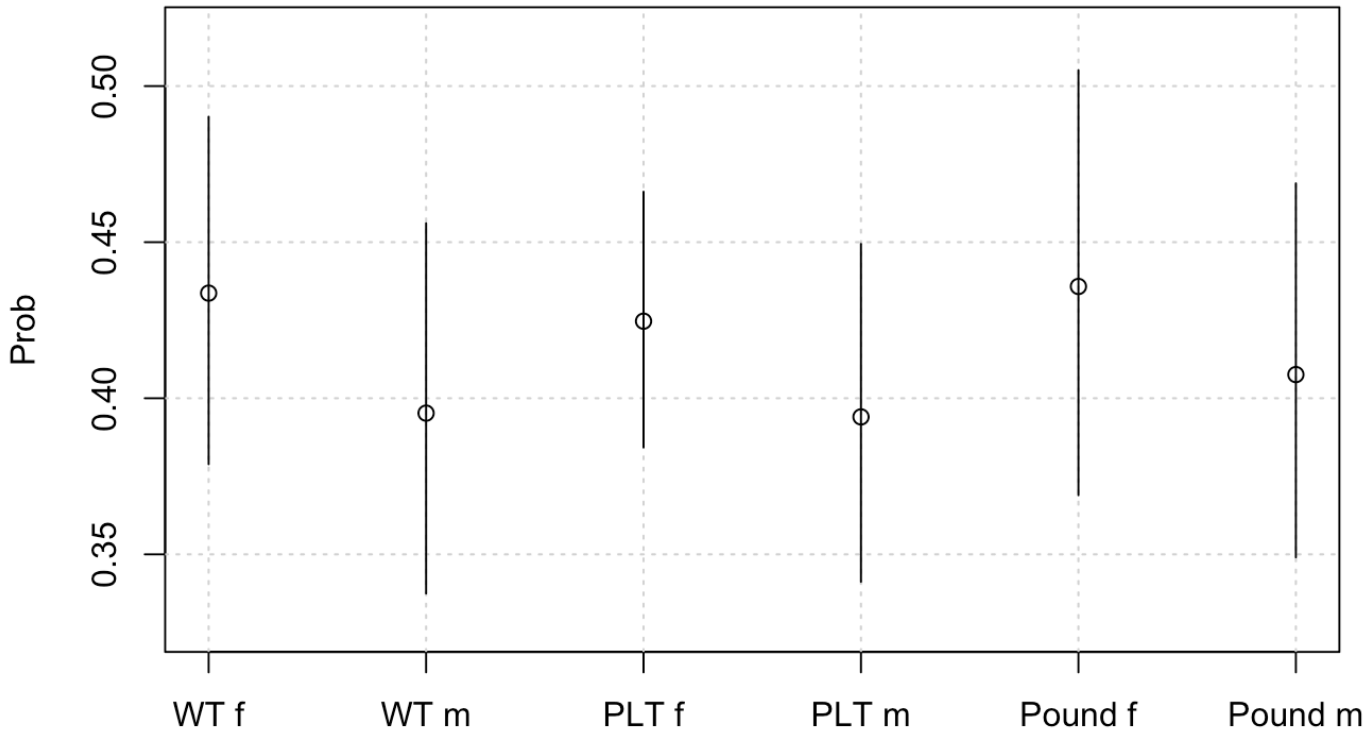
CD19pos_B220pos_7

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.37646  -0.15891   0.00428   0.14646   0.45229
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -0.37980    0.09961  -3.813 0.000613 ***
## femaleTRUE            0.14903    0.13487   1.105 0.277657
## typePLT               0.21047    0.13487   1.561 0.128793
## typePound             0.08734    0.14087   0.620 0.539774
## femaleTRUE:typePLT   -0.06306    0.17598  -0.358 0.722501
## femaleTRUE:typePound -0.07030    0.20128  -0.349 0.729262
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.04960916)
##
##     Null deviance: 1.9035  on 36  degrees of freedom
## Residual deviance: 1.5379  on 31  degrees of freedom
## AIC: 1.3226
##
## Number of Fisher Scoring iterations: 2
```



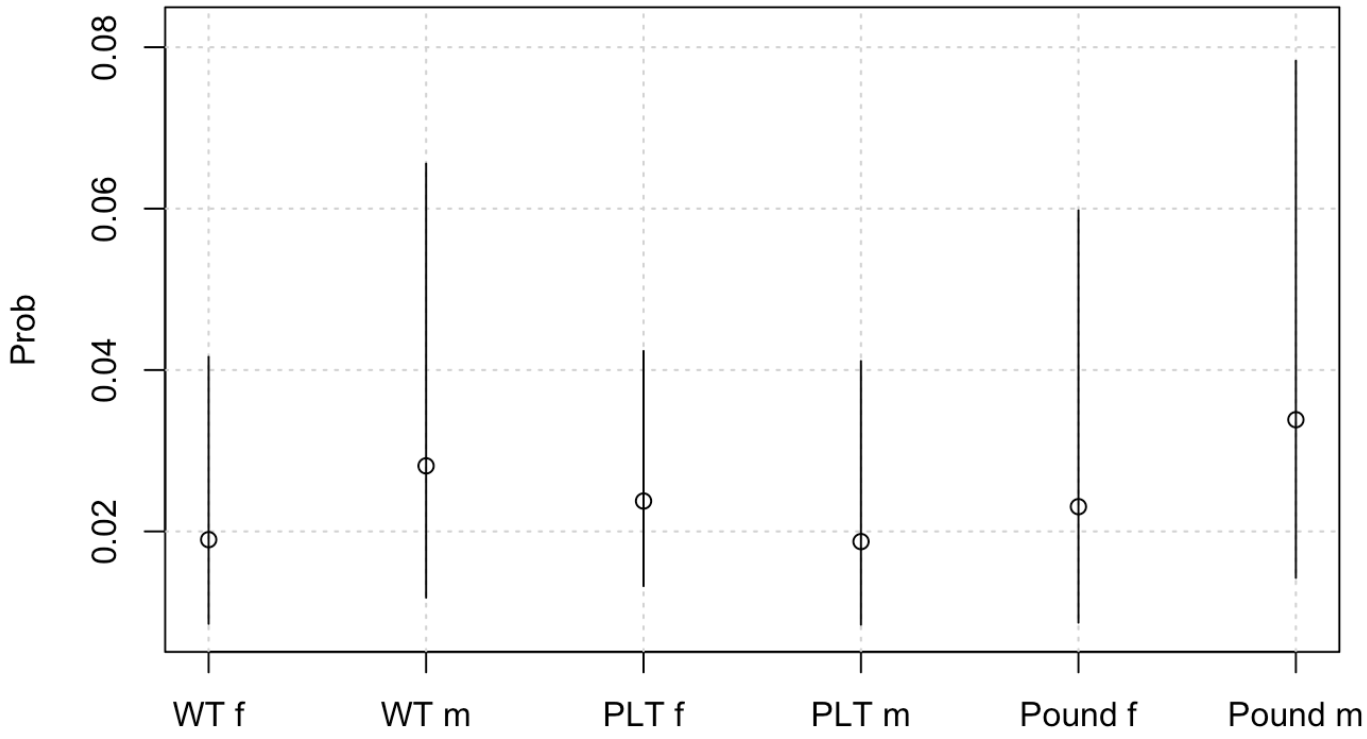
CD19pos_B220pos_MHCIIpos_7

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.44861  -0.14261   0.00105   0.18726   0.65205
##
## Coefficients:
##                       Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -0.425378   0.124598  -3.414   0.0018 **
## femaleTRUE            0.158507   0.168707   0.940   0.3547
## typePLT              -0.005044   0.168707  -0.030   0.9763
## typePound             0.051410   0.176209   0.292   0.7724
## femaleTRUE:typePLT   -0.031639   0.220128  -0.144   0.8866
## femaleTRUE:typePound -0.042719   0.251779  -0.170   0.8664
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.07762392)
##
##     Null deviance: 2.5711  on 36  degrees of freedom
## Residual deviance: 2.4063  on 31  degrees of freedom
## AIC: 17.887
##
## Number of Fisher Scoring iterations: 2
```



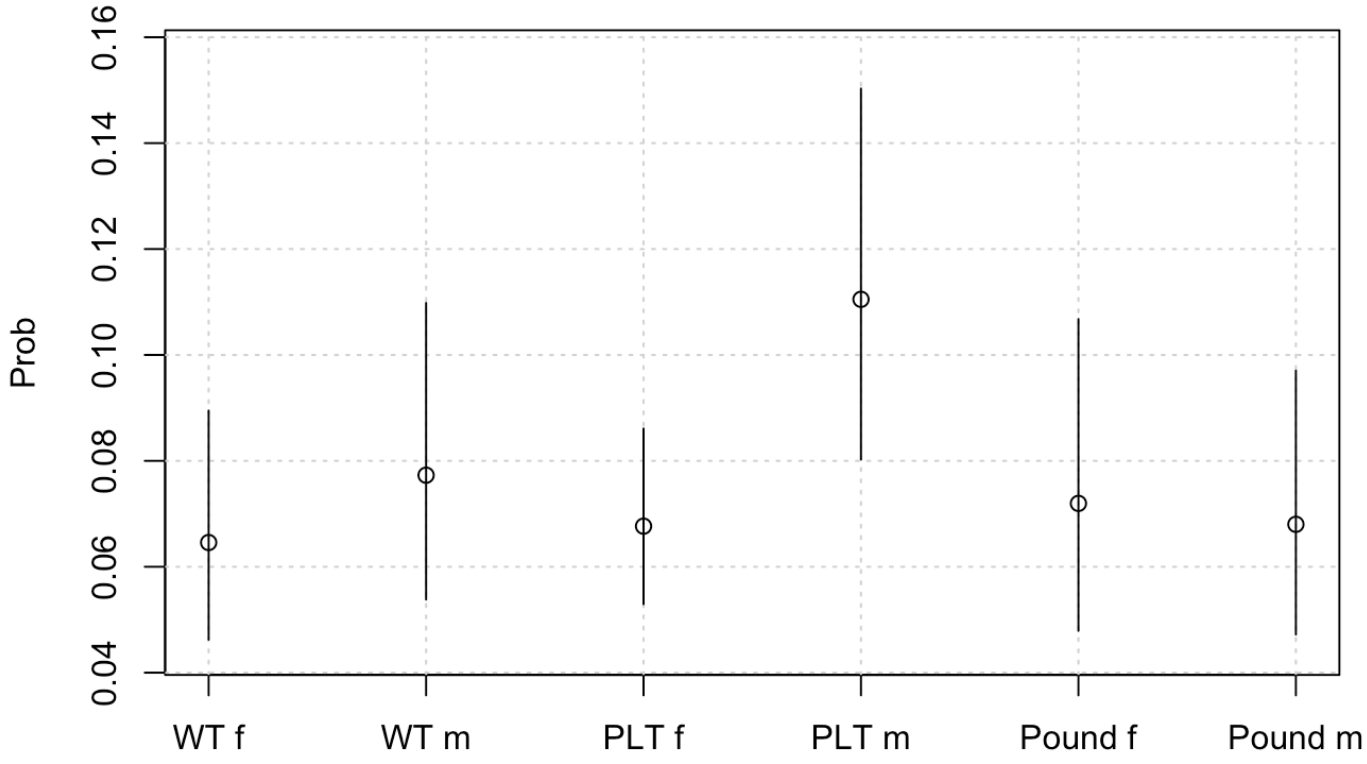
CD11cpos_7

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -1.6729  -0.7996  -0.0228   0.8257   1.4940
##
## Coefficients:
##                       Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -3.542624   0.442974  -7.997 4.97e-09 ***
## femaleTRUE           -0.402441   0.599790  -0.671    0.507
## typePLT              -0.415440   0.599790  -0.693    0.494
## typePound             0.191094   0.626460   0.305    0.762
## femaleTRUE:typePLT    0.645021   0.782601   0.824    0.416
## femaleTRUE:typePound  0.007984   0.895130   0.009    0.993
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.9811318)
##
##     Null deviance: 31.898  on 36  degrees of freedom
## Residual deviance: 30.415  on 31  degrees of freedom
## AIC: 111.75
##
## Number of Fisher Scoring iterations: 2
```



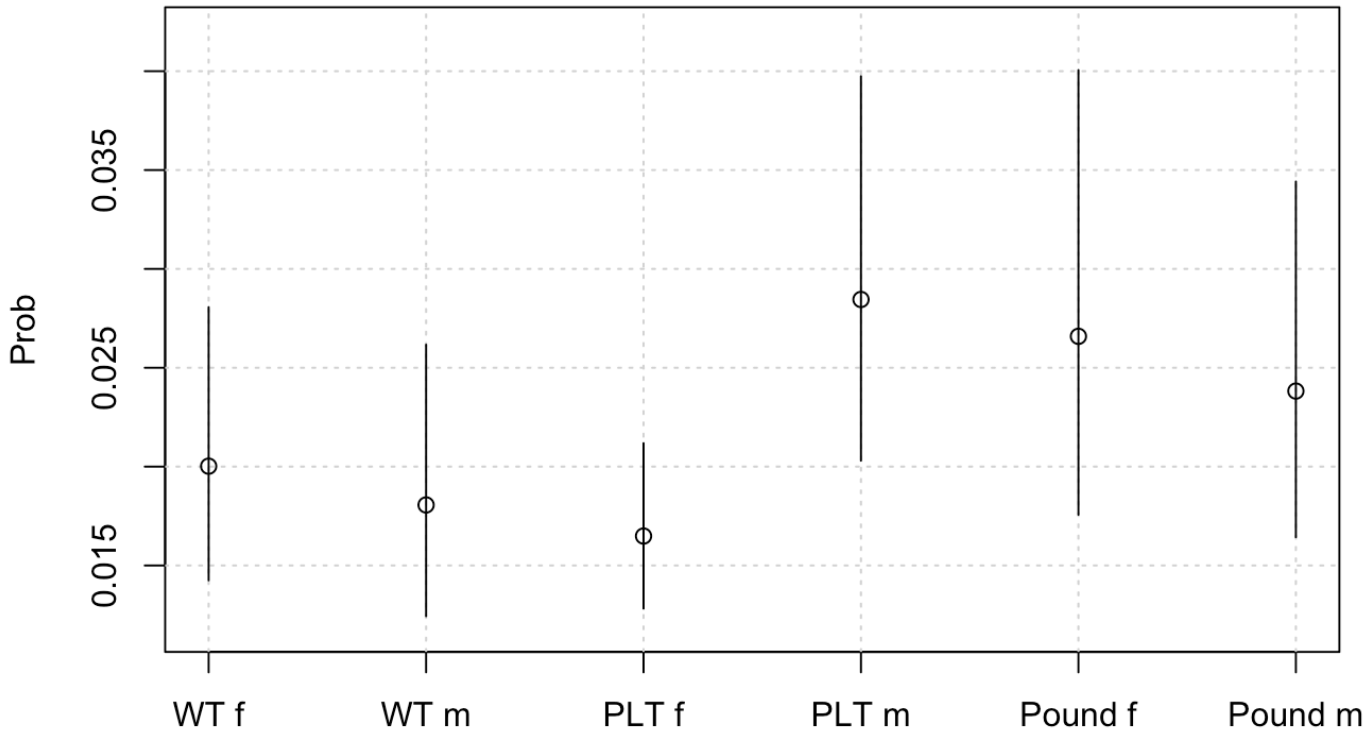
CD11bpos_7

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -0.9197  -0.2975  -0.0089   0.2854   0.7788
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)           -2.4797     0.1936 -12.811 6.38e-14 ***
## femaleTRUE            -0.1934     0.2621  -0.738    0.466
## typePLT                0.3941     0.2621   1.504    0.143
## typePound             -0.1379     0.2737  -0.504    0.618
## femaleTRUE:typePLT    -0.3441     0.3420  -1.006    0.322
## femaleTRUE:typePound   0.2541     0.3911   0.650    0.521
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.1873402)
##
##     Null deviance: 7.2581  on 36  degrees of freedom
## Residual deviance: 5.8075  on 31  degrees of freedom
## AIC: 50.486
##
## Number of Fisher Scoring iterations: 2
```


Prob
0.04
0.06
0.08
0.10
0.12
0.14
0.16
WT f
WT m
PLT f
PLT m
Pound f
Pound m

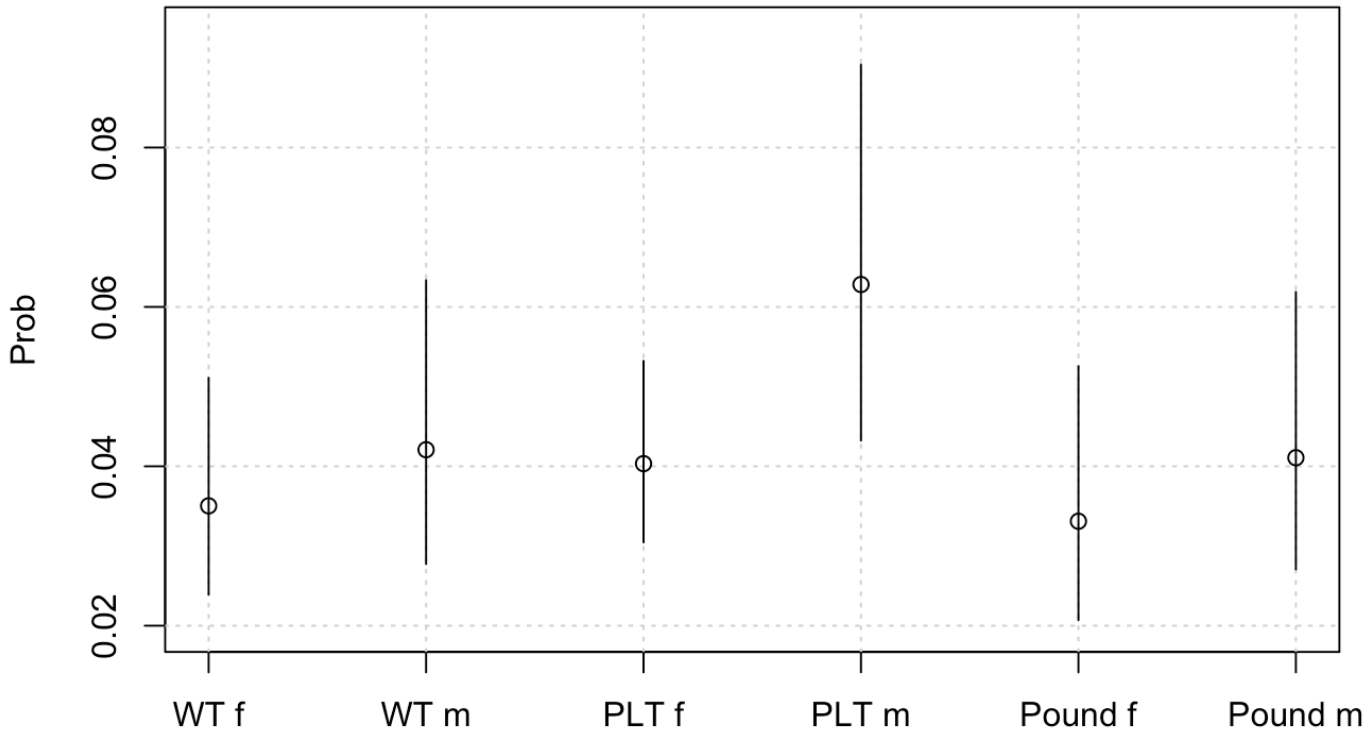
mMDSCs_7

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.76921  -0.29275  -0.05737   0.35239   0.91320
##
## Coefficients:
##                       Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -3.995722   0.189477 -21.088   <2e-16 ***
## femaleTRUE            0.105050   0.256553   0.409   0.6850
## typePLT               0.465113   0.256553   1.813   0.0795 .
## typePound             0.282660   0.267961   1.055   0.2996
## femaleTRUE:typePLT   -0.662879   0.334748  -1.980   0.0566 .
## femaleTRUE:typePound  0.007761   0.382882   0.020   0.9840
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.1795081)
##
##     Null deviance: 7.2616  on 36  degrees of freedom
## Residual deviance: 5.5648  on 31  degrees of freedom
## AIC: 48.906
##
## Number of Fisher Scoring iterations: 2
```



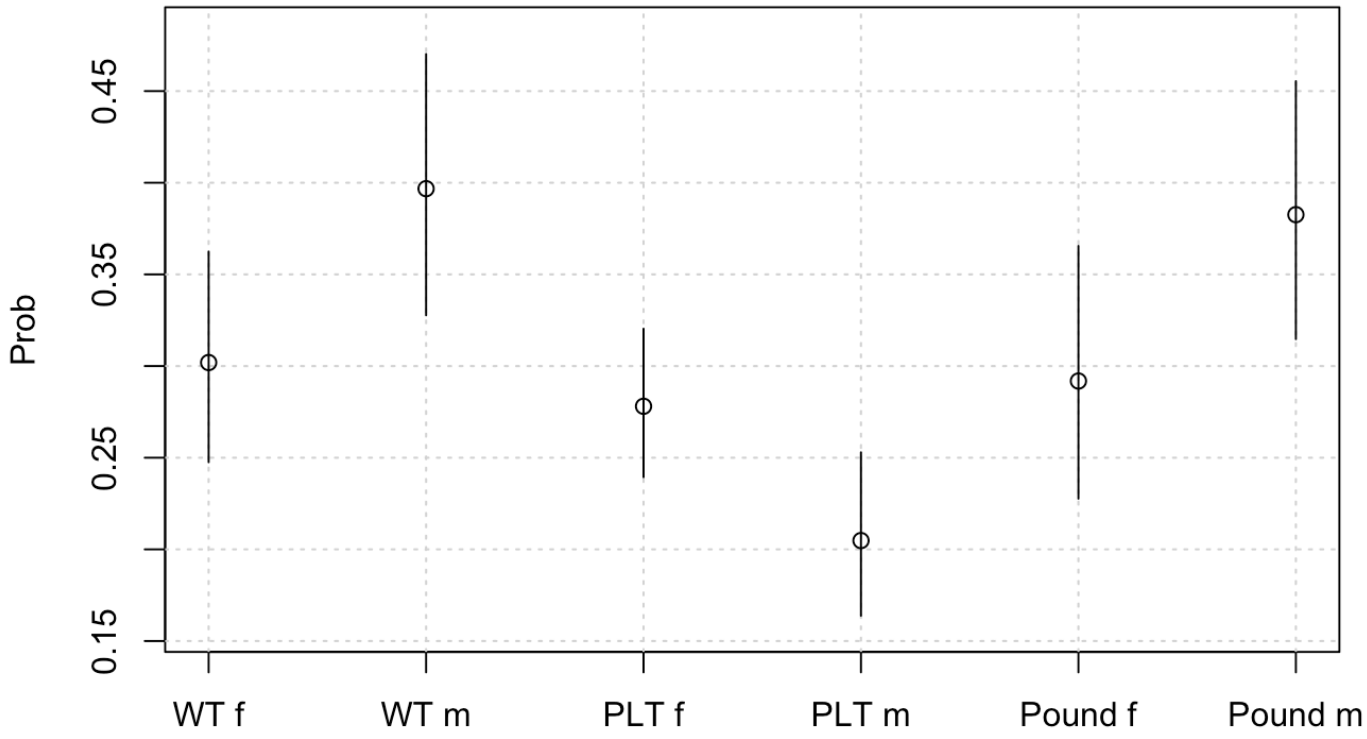
gMDSCs_7

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.94587  -0.33629   0.03955   0.34012   0.90200
##
## Coefficients:
##                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -3.12513    0.21583 -14.480 2.43e-15 ***
## femaleTRUE           -0.19055    0.29224  -0.652    0.519
## typePLT               0.42241    0.29224   1.445    0.158
## typePound            -0.02526    0.30523  -0.083    0.935
## femaleTRUE:typePLT   -0.27612    0.38131  -0.724    0.474
## femaleTRUE:typePound -0.03342    0.43614  -0.077    0.939
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.2329152)
##
##     Null deviance: 8.7807  on 36  degrees of freedom
## Residual deviance: 7.2204  on 31  degrees of freedom
## AIC: 58.543
##
## Number of Fisher Scoring iterations: 2
```



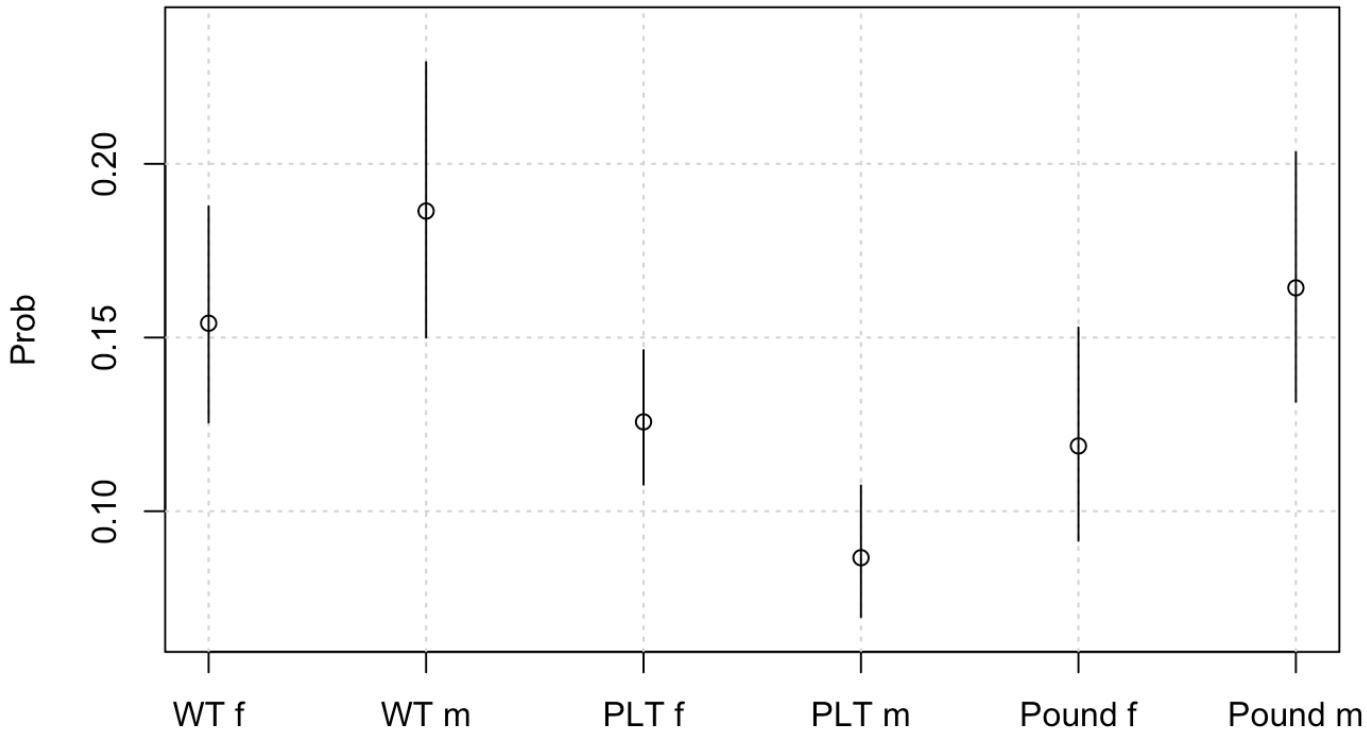
2nd lot: CD3pos_7

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.77832  -0.24317  -0.01849   0.16373   0.67438
##
## Coefficients:
##                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -0.41894    0.14984  -2.796  0.00881 **
## femaleTRUE           -0.41926    0.20289  -2.066  0.04722 *
## typePLT              -0.93761    0.20289  -4.621 6.34e-05 ***
## typePound            -0.05965    0.21191  -0.281  0.78020
## femaleTRUE:typePLT    0.82169    0.26473   3.104  0.00406 **
## femaleTRUE:typePound  0.01133    0.30279   0.037  0.97039
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.1122651)
##
##     Null deviance: 6.7623  on 36  degrees of freedom
## Residual deviance: 3.4802  on 31  degrees of freedom
## AIC: 31.54
##
## Number of Fisher Scoring iterations: 2
```



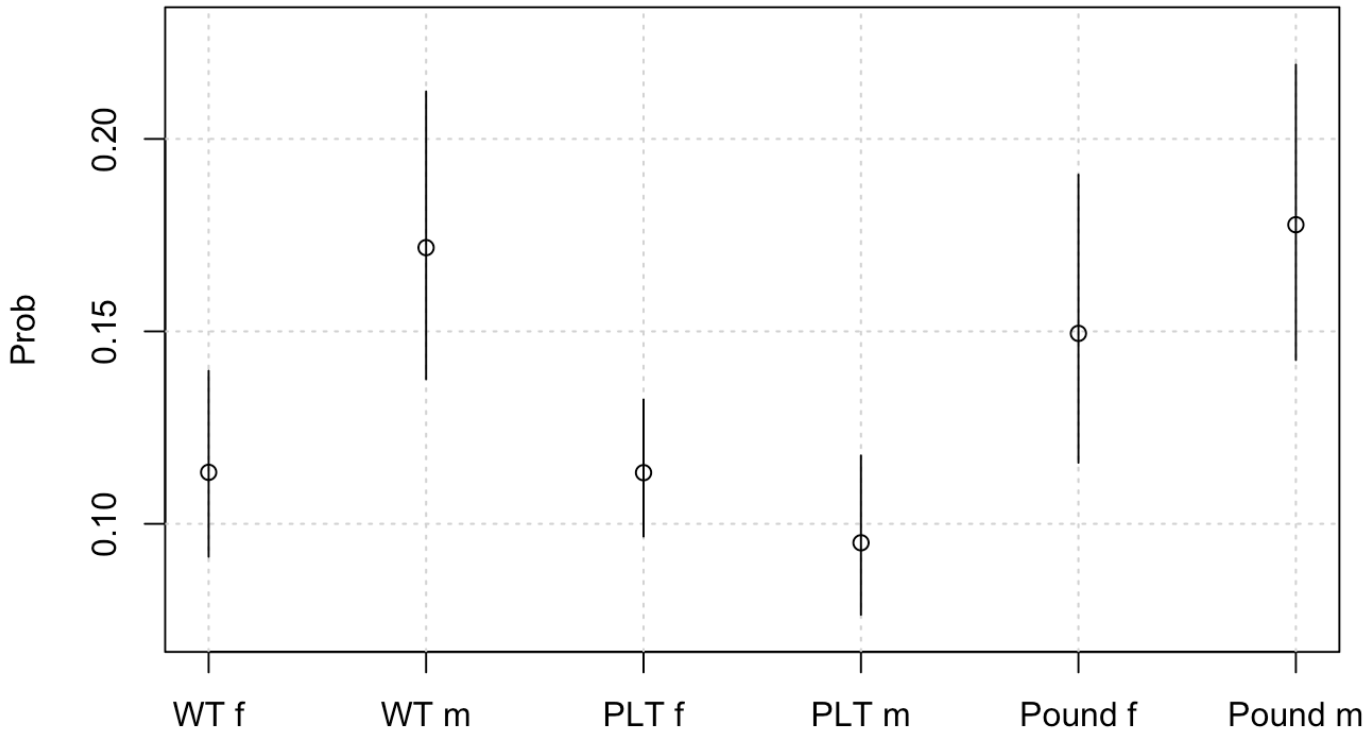
2nd lot: CD4pos_7

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.59392  -0.16557  -0.00988   0.17629   0.56300
##
## Coefficients:
##                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -1.4735     0.1305 -11.293 1.63e-12 ***
## femaleTRUE           -0.2291     0.1767  -1.297  0.20431
## typePLT              -0.8821     0.1767  -4.993 2.19e-05 ***
## typePound            -0.1531     0.1845  -0.829  0.41321
## femaleTRUE:typePLT    0.6454     0.2305   2.800  0.00872 **
## femaleTRUE:typePound -0.1483     0.2637  -0.562  0.57783
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.08512699)
##
##     Null deviance: 5.4291  on 36  degrees of freedom
## Residual deviance: 2.6389  on 31  degrees of freedom
## AIC: 21.301
##
## Number of Fisher Scoring iterations: 2
```



2nd lot: CD8pos_7

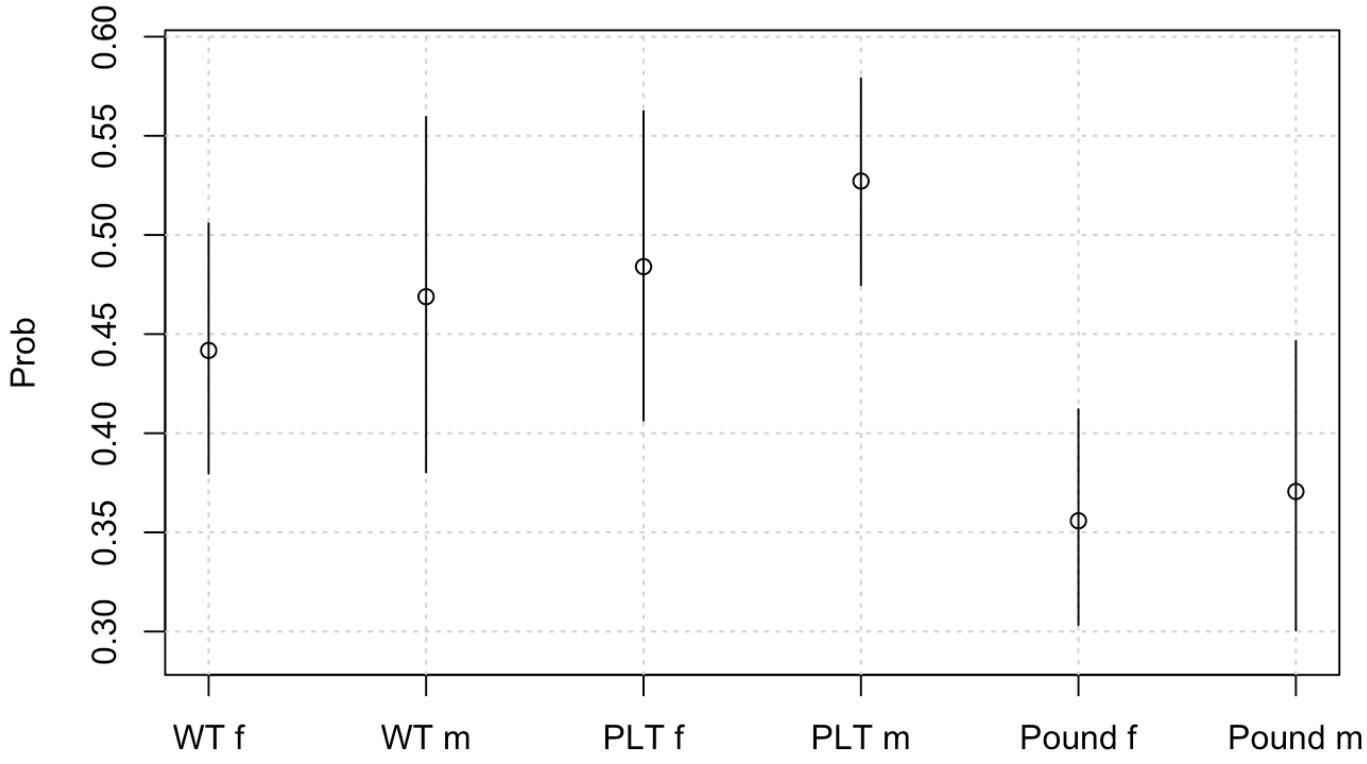
```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.79318  -0.15257   0.03880   0.09487   0.59961
##
## Coefficients:
##                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -1.57322    0.13115 -11.996 3.51e-13 ***
## femaleTRUE           -0.48345    0.17757  -2.723 0.010537 *
## typePLT              -0.67990    0.17757  -3.829 0.000586 ***
## typePound             0.04129    0.18547   0.223 0.825298
## femaleTRUE:typePLT    0.67904    0.23170   2.931 0.006298 **
## femaleTRUE:typePound  0.27667    0.26501   1.044 0.304558
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.08599763)
##
##     Null deviance: 5.1375  on 36  degrees of freedom
## Residual deviance: 2.6659  on 31  degrees of freedom
## AIC: 21.678
##
## Number of Fisher Scoring iterations: 2
```



day 28

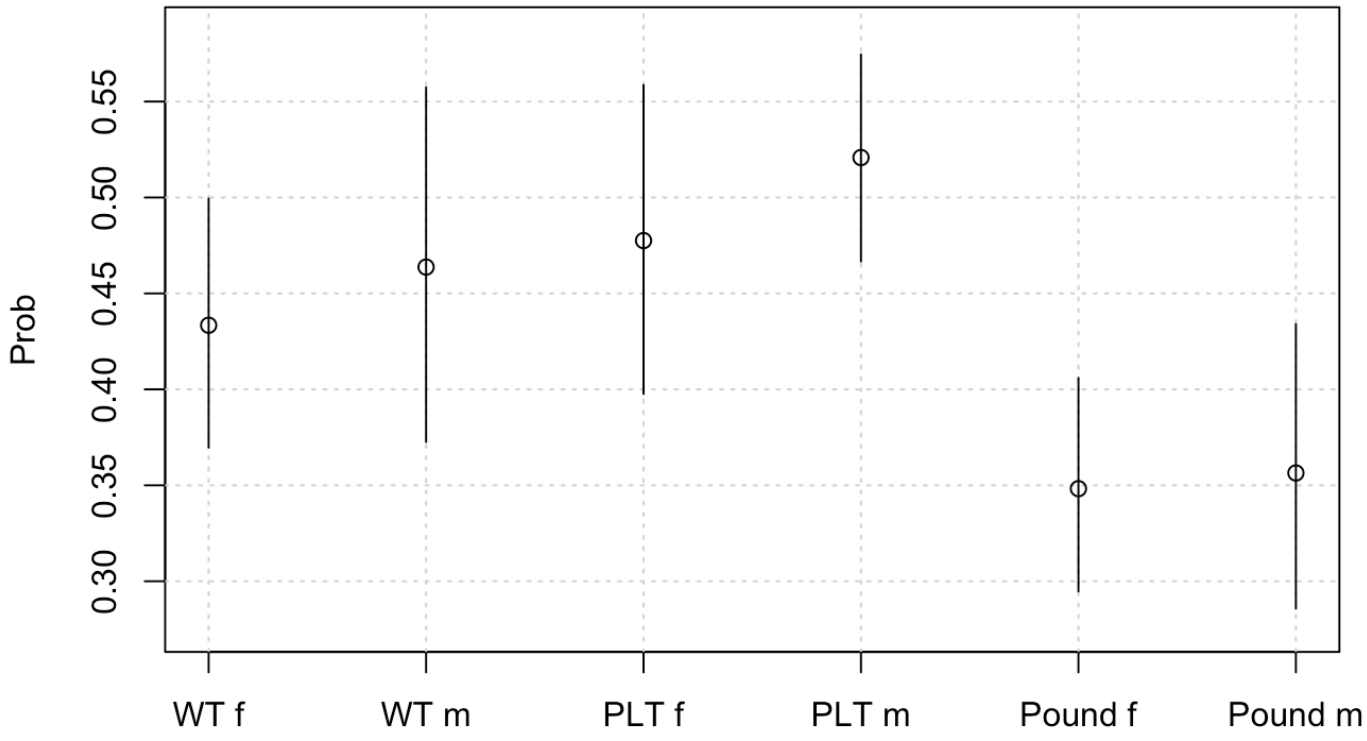
CD19pos_B220pos_28

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.55827  -0.21685  -0.00872   0.17962   0.70727
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -0.12470    0.18191  -0.686    0.499
## femaleTRUE           -0.10924    0.22280  -0.490    0.628
## typePLT               0.23354    0.21006   1.112    0.276
## typePound            -0.40487    0.24065  -1.682    0.104
## femaleTRUE:typePLT   -0.06356    0.29239  -0.217    0.830
## femaleTRUE:typePound  0.04538    0.29773   0.152    0.880
##
## (Dispersion parameter for gaussian family taken to be 0.0992777)
##
##     Null deviance: 5.1389  on 32  degrees of freedom
## Residual deviance: 2.6805  on 27  degrees of freedom
## AIC: 24.803
##
## Number of Fisher Scoring iterations: 2
```



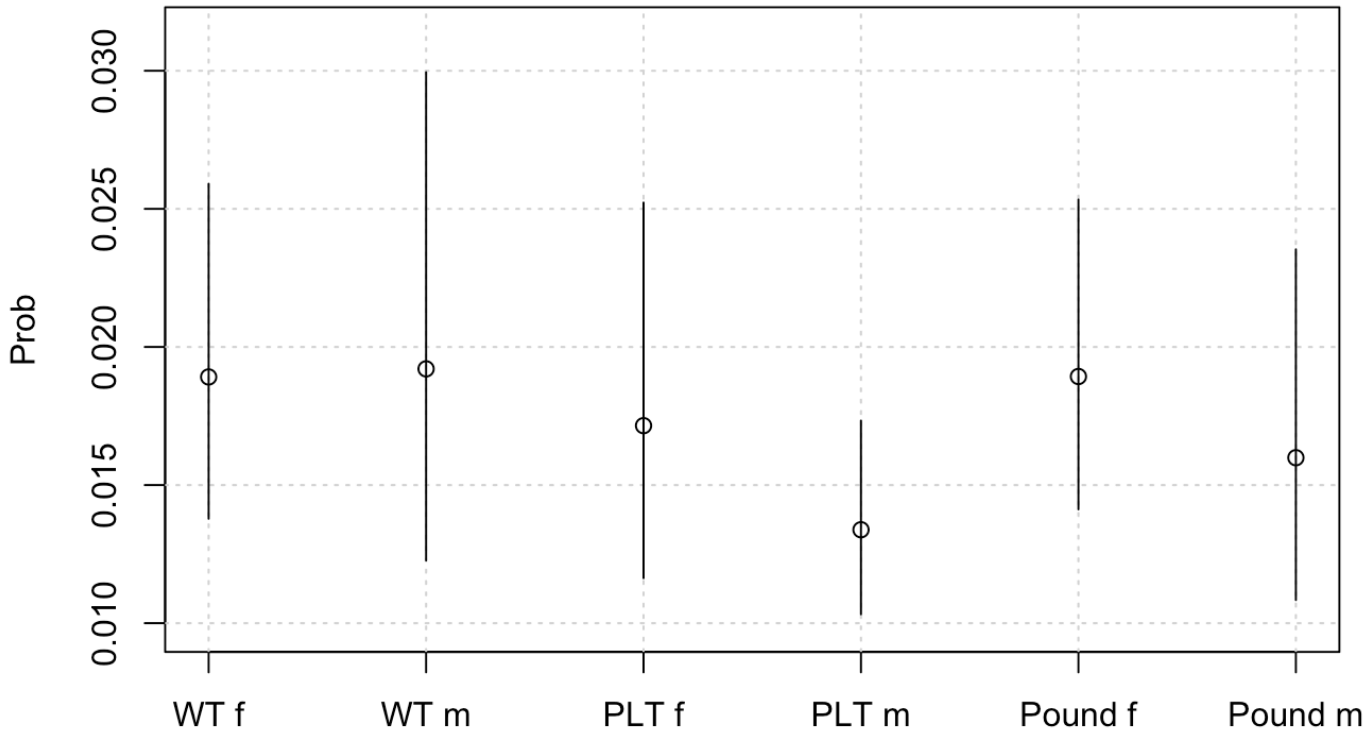
CD19pos_B220pos_MHCIIpos_28

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.62785  -0.18107  -0.00644   0.18349   0.72684
##
## Coefficients:
##                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -0.14532    0.18789  -0.773   0.4460
## femaleTRUE           -0.12255    0.23012  -0.533   0.5987
## typePLT               0.22867    0.21696   1.054   0.3012
## typePound            -0.44557    0.24856  -1.793   0.0842 .
## femaleTRUE:typePLT   -0.05067    0.30199  -0.168   0.8680
## femaleTRUE:typePound  0.08670    0.30751   0.282   0.7801
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.1059103)
##
##     Null deviance: 5.4547  on 32  degrees of freedom
## Residual deviance: 2.8596  on 27  degrees of freedom
## AIC: 26.937
##
## Number of Fisher Scoring iterations: 2
```



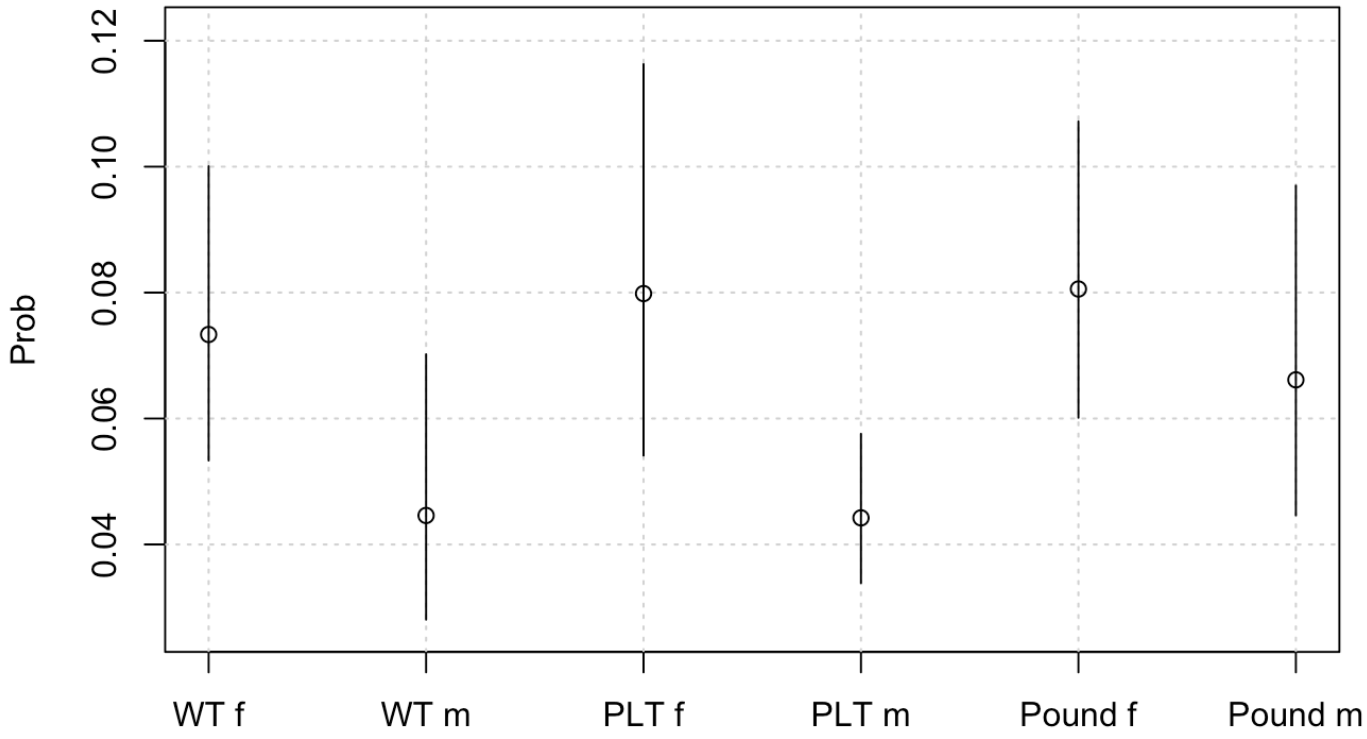
CD11cpos_28

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.73539  -0.20006   0.05686   0.24515   0.64768
##
## Coefficients:
##                     Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -3.93310    0.22758 -17.282 3.98e-16 ***
## femaleTRUE           -0.01566    0.27872  -0.056    0.956
## typePLT              -0.36725    0.26278  -1.398    0.174
## typePound            -0.18656    0.30106  -0.620    0.541
## femaleTRUE:typePLT    0.26759    0.36578   0.732    0.471
## femaleTRUE:typePound  0.18746    0.37246   0.503    0.619
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.1553751)
##
##     Null deviance: 4.9321  on 32  degrees of freedom
## Residual deviance: 4.1951  on 27  degrees of freedom
## AIC: 39.585
##
## Number of Fisher Scoring iterations: 2
```


Prob
0.010
0.015
0.020
0.025
0.030
WT f
WT m
PLT f
PLT m
Pound f
Pound m

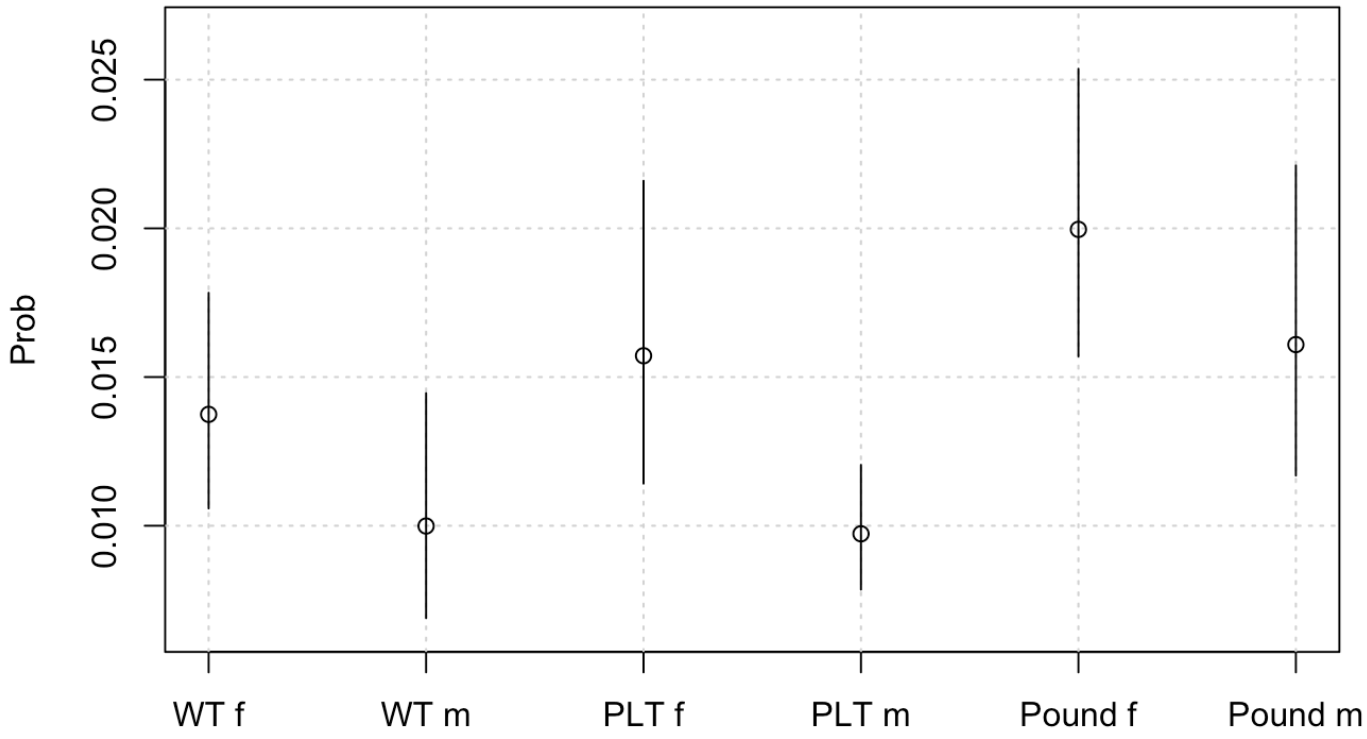
CD11bpos_28

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.83842  -0.23418   0.01011   0.23781   0.75783
##
## Coefficients:
##                       Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -3.064361   0.240390 -12.747 6.15e-13 ***
## femaleTRUE            0.527955   0.294416   1.793   0.0841 .
## typePLT              -0.008895   0.277578  -0.032   0.9747
## typePound             0.416874   0.318006   1.311   0.2009
## femaleTRUE:typePLT    0.100844   0.386373   0.261   0.7961
## femaleTRUE:typePound -0.315096   0.393430  -0.801   0.4302
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.173362)
##
##     Null deviance: 7.2543  on 32  degrees of freedom
## Residual deviance: 4.6808  on 27  degrees of freedom
## AIC: 43.199
##
## Number of Fisher Scoring iterations: 2
```



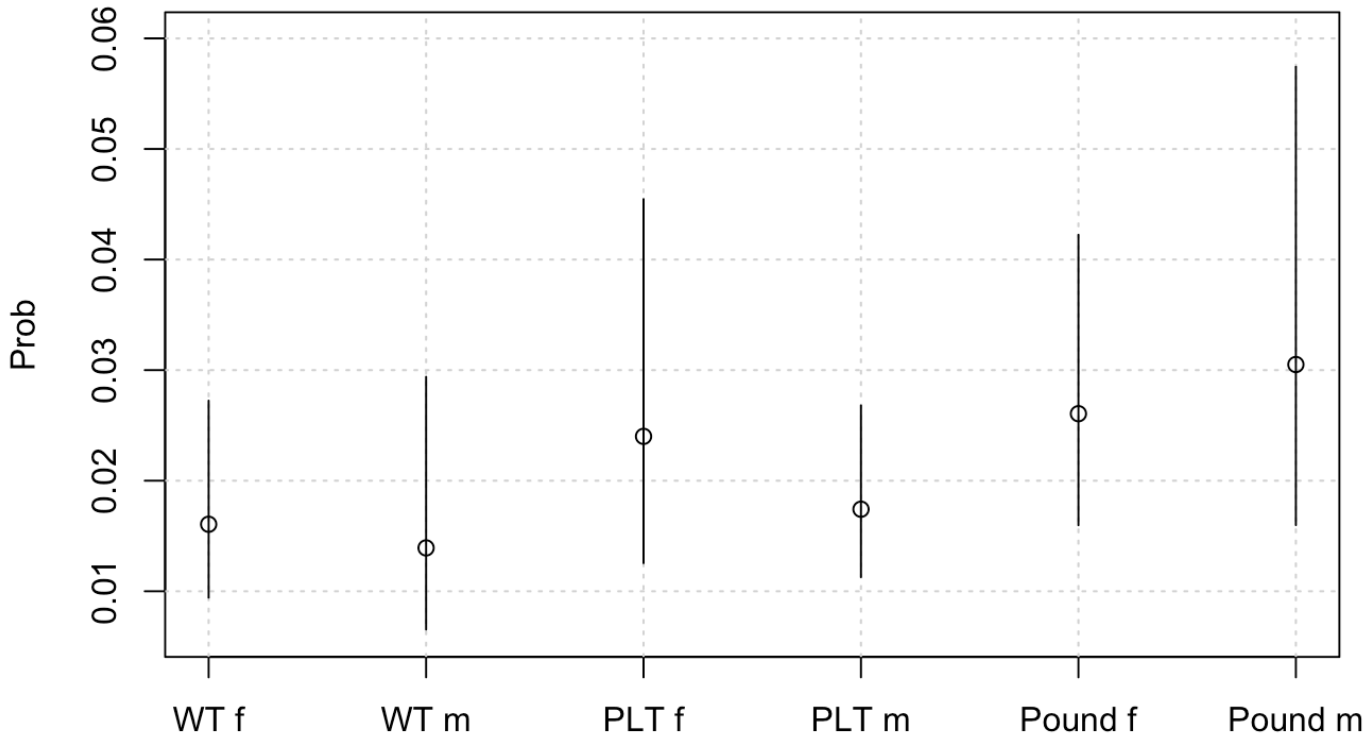
mMDSCs_28

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.88473  -0.18800  -0.01213   0.22387   0.52257
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -4.59607    0.18707 -24.569   <2e-16 ***
## femaleTRUE            0.32283    0.22911   1.409   0.1702
## typePLT              -0.02677    0.21601  -0.124   0.9023
## typePound             0.48281    0.24747   1.951   0.0615 .
## femaleTRUE:typePLT    0.16279    0.30067   0.541   0.5927
## femaleTRUE:typePound -0.10318    0.30616  -0.337   0.7387
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.1049829)
##
##     Null deviance: 5.4302  on 32  degrees of freedom
## Residual deviance: 2.8345  on 27  degrees of freedom
## AIC: 26.647
##
## Number of Fisher Scoring iterations: 2
```



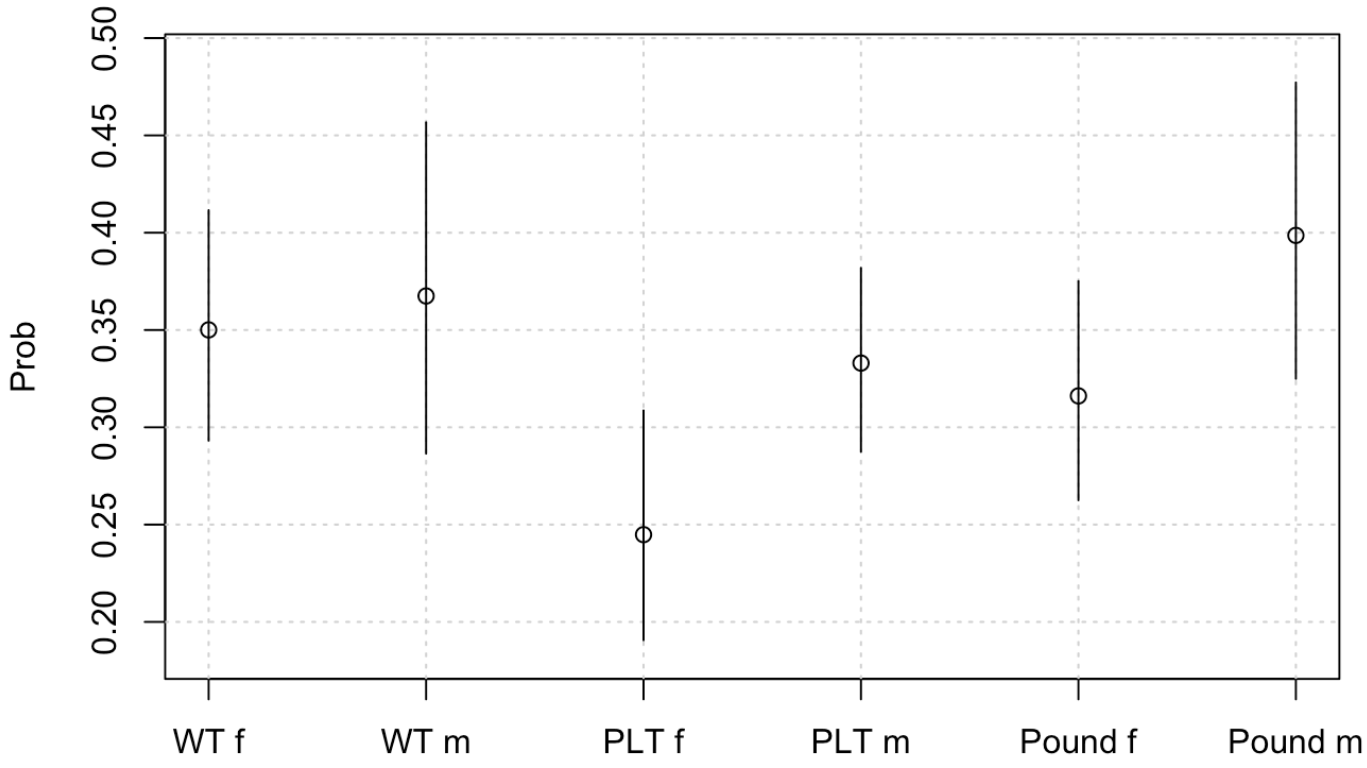
gMDSCs_28

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.86468  -0.52842  -0.05846   0.37754   1.12446
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)           -4.2603     0.3816 -11.165 1.27e-11 ***
## femaleTRUE             0.1450     0.4673   0.310    0.759
## typePLT                0.2277     0.4406   0.517    0.609
## typePound              0.8014     0.5048   1.588    0.124
## femaleTRUE:typePLT     0.1825     0.6133   0.298    0.768
## femaleTRUE:typePound  -0.3071     0.6245  -0.492    0.627
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.4368165)
##
##     Null deviance: 14.069  on 32  degrees of freedom
## Residual deviance: 11.794  on 27  degrees of freedom
## AIC: 73.696
##
## Number of Fisher Scoring iterations: 2
```



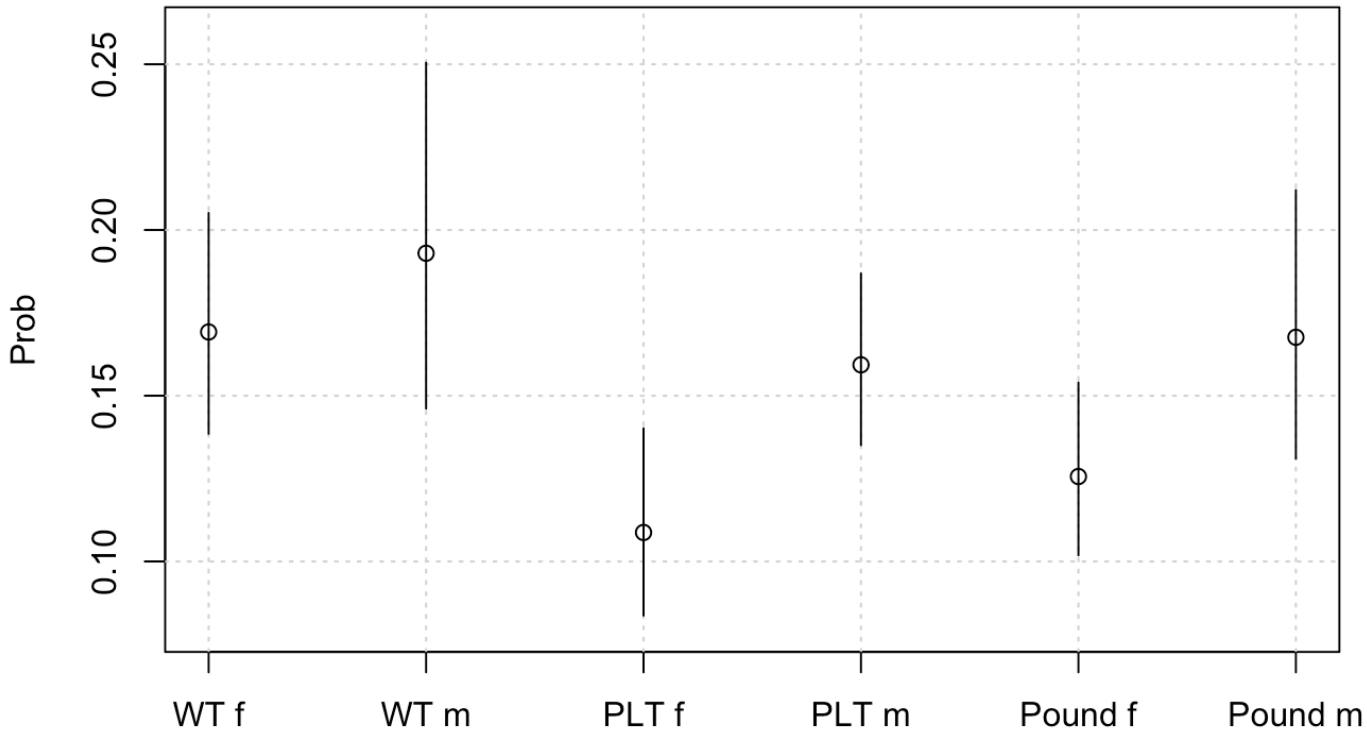
2nd lot: CD3pos_28

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.67452  -0.14002  -0.00152   0.21326   0.66868
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -0.54301    0.18476  -2.939  0.00682 **
## femaleTRUE           -0.07573    0.22628  -0.335  0.74055
## typePLT              -0.15162    0.21334  -0.711  0.48358
## typePound             0.13178    0.24441   0.539  0.59436
## femaleTRUE:typePLT   -0.35596    0.29695  -1.199  0.24145
## femaleTRUE:typePound -0.28460    0.30638  -0.929  0.36148
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.1024045)
##
##     Null deviance: 3.8676  on 31  degrees of freedom
## Residual deviance: 2.6625  on 26  degrees of freedom
##   (1 observation deleted due to missingness)
## AIC: 25.245
##
## Number of Fisher Scoring iterations: 2
```



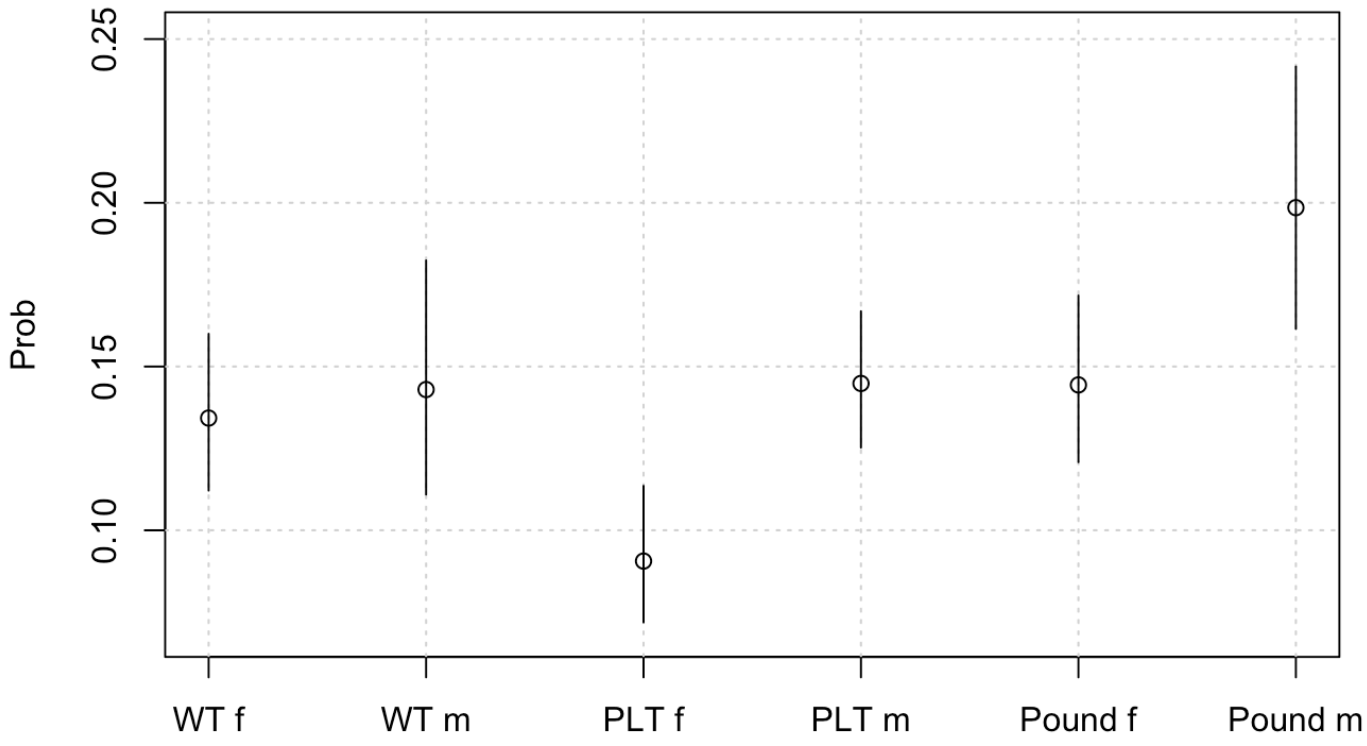
2nd lot: CD4pos_28

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.70313  -0.17139  -0.02456   0.19850   0.55032
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)           -1.4308     0.1674  -8.549 4.99e-09 ***
## femaleTRUE            -0.1603     0.2050  -0.782    0.441
## typePLT               -0.2325     0.1933  -1.203    0.240
## typePound             -0.1718     0.2214  -0.776    0.445
## femaleTRUE:typePLT    -0.2801     0.2690  -1.041    0.307
## femaleTRUE:typePound  -0.1774     0.2775  -0.639    0.528
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.08403417)
##
##     Null deviance: 3.4978  on 31  degrees of freedom
## Residual deviance: 2.1849  on 26  degrees of freedom
##   (1 observation deleted due to missingness)
## AIC: 18.919
##
## Number of Fisher Scoring iterations: 2
```



2nd lot: CD8pos_28

```
##
## Call:
## glm(formula = logitp ~ female * type)
##
## Deviance Residuals:
##      Min        1Q    Median        3Q       Max
## -0.49213  -0.12594  -0.00673   0.15446   0.48895
##
## Coefficients:
##                      Estimate Std. Error t value Pr(>|t|)
## (Intercept)          -1.79076    0.14530 -12.325 2.31e-12 ***
## femaleTRUE           -0.07294    0.17795  -0.410   0.6852
## typePLT               0.01509    0.16777   0.090   0.9290
## typePound             0.39523    0.19221   2.056   0.0499 *
## femaleTRUE:typePLT   -0.45770    0.23353  -1.960   0.0608 .
## femaleTRUE:typePound -0.31079    0.24094  -1.290   0.2084
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for gaussian family taken to be 0.0633321)
##
##     Null deviance: 3.3534  on 31  degrees of freedom
## Residual deviance: 1.6466  on 26  degrees of freedom
##   (1 observation deleted due to missingness)
## AIC: 9.868
##
## Number of Fisher Scoring iterations: 2
```


Prob
0.10
0.15
0.20
0.25
WT f
WT m
PLT f
PLT m
Pound f
Pound m