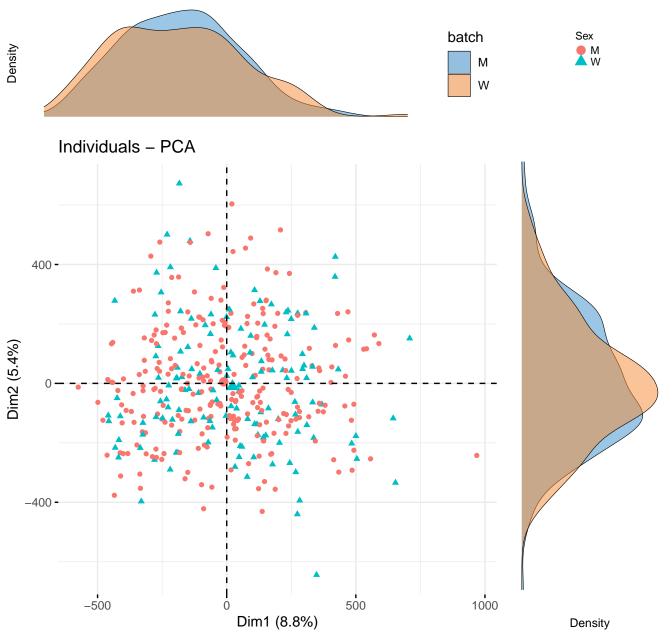
lual map and density plot before correction by Sex



Summary table of P-values for PCs before batch correction

```
P_Plate P_Slide P_Array P_DEX P_Sex PC1.Pr..F. 0.54207 0.94143 0.73818 0.06788 0.21251 PC2.Pr..F. 0.00000 0.00000 0.00000 0.84504 0.46059 PC3.Pr..F. 0.00000 0.00000 0.00001 0.75903 0.91300 PC4.Pr..F. 0.97917 0.00001 0.00147 0.97509 0.17027 PC5.Pr..F. 0.00000 0.00000 0.16026 0.92386 0.10236 PC6.Pr..F. 0.00014 0.00000 0.07470 0.92649 0.26453
```

ANOVA results for Plate before batch correction

```
SPC1
Analysis of Variance Table
Response: pc
                      Df Sum Sq Mean Sq F value Pr(>F)
Prin.comp$Sample_Plate 4 203341 50835 0.7748 0.5421
                    398 26113161 65611
Residuals
Analysis of Variance Table
Response: pc
                      Df Sum Sq Mean Sq F value
Prin.comp$Sample_Plate 4 1844092 461023 12.954 6.327e-10 ***
                    398 14163944 35588
Residuals
Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ...... 0.1 ... 1
$PC3
Analysis of Variance Table
Response: pc
                     Df Sum Sq Mean Sq F value
Prin.comp$Sample_Plate 4 770089 192522 11.444 8.398e-09 ***
                    398 6695598 16823
Residuals
Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ...... 1
Analysis of Variance Table
Response: pc
                     Df Sum Sq Mean Sq F value Pr(>F)
Prin.comp$Sample Plate 4 7546 1886.6 0.1095 0.9792
                    398 6856884 17228.4
Residuals
SPC5
Analysis of Variance Table
Response: pc
                      Df Sum Sq Mean Sq F value Pr(>F)
Prin.comp$Sample_Plate 4 452102 113026 13.021 5.647e-10 ***
Residuals
                    398 3454663 8680
Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ...... 1
$PC6
Analysis of Variance Table
Response: pc
                     Df Sum Sq Mean Sq F value
Drin comp$9ample Dlate 4 197778 49445 5 8353 0 0001428 ***
```

ANOVA results for Sample Group before batch correction

```
SPC1
Analysis of Variance Table
Response: pc
                   Df Sum Sq Mean Sq F value Pr(>F)
Prin.comp$Sample_Group 1 218130 218130 3.3516 0.06788 .
Residuals 401 26098372 65083
Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ...... 0.1 ... 1
SPC2
Analysis of Variance Table
Response: pc
                    Df Sum Sq Mean Sq F value Pr(>F)
Prin.comp$Sample Group 1 1527 1527 0.0383 0.845
Residuals 401 16006508 39916
$PC3
Analysis of Variance Table
Response: pc
                   Df Sum Sq Mean Sq F value Pr(>F)
Prin.comp$Sample_Group 1 1754 1753.9 0.0942 0.759
Residuals 401 7463933 18613.3
SPC4
Analysis of Variance Table
Response: pc
                   Df Sum Sq Mean Sq F value Pr(>F)
Prin.comp$Sample_Group 1 17 16.7 0.001 0.9751
Residuals 401 6864414 17118.2
Analysis of Variance Table
Response: pc
                   Df Sum Sq Mean Sq F value Pr(>F)
Prin.comp$Sample_Group 1 89 89.1 0.0091 0.9239
Residuals 401 3906676 9742.3
$PC6
Analysis of Variance Table
Response: pc
                    Df Sum Sq Mean Sq F value Pr(>F)
Prin.comp$Sample_Group 1 76 75.9 0.0085 0.9265
                  401 3570107 8903.0
Residuals
```