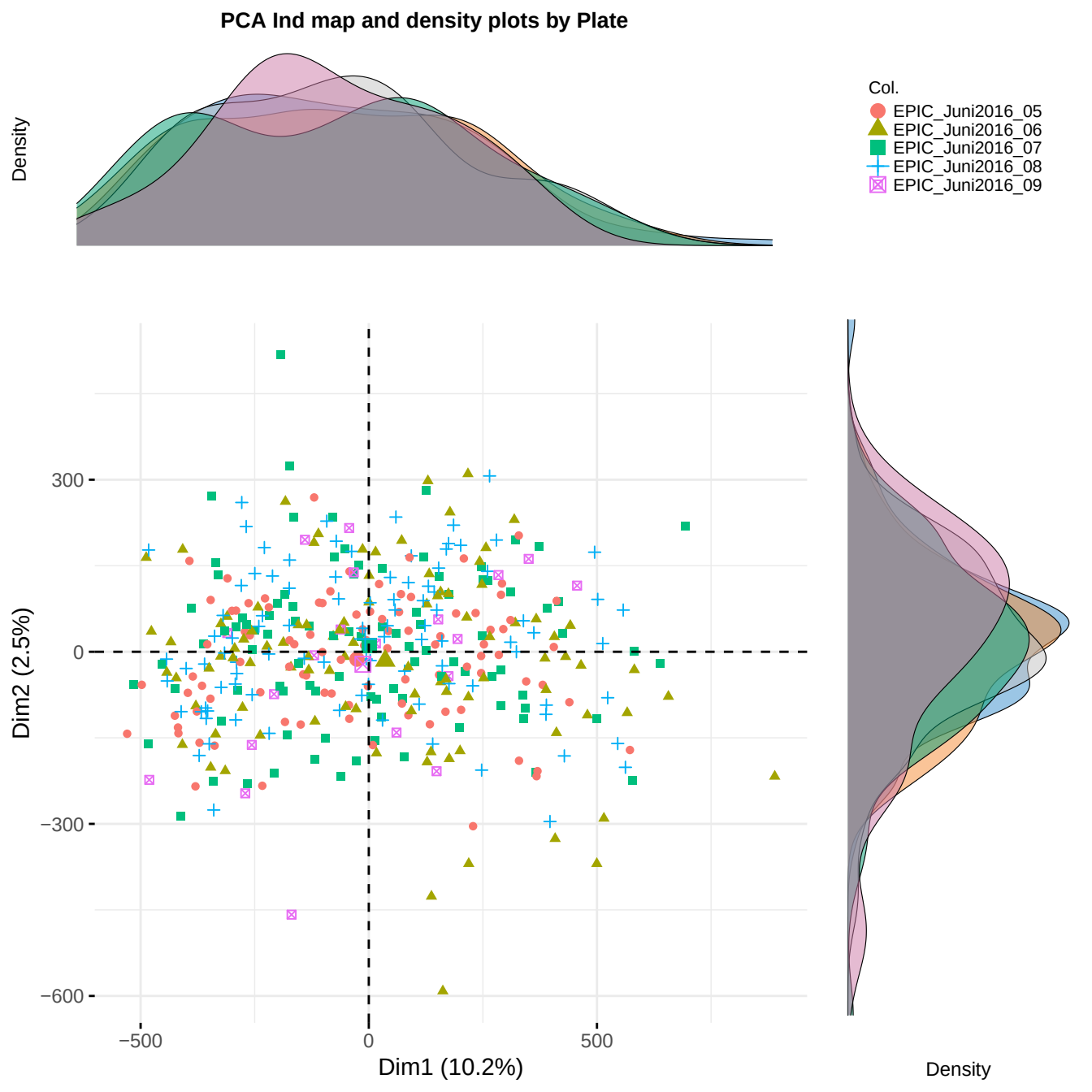
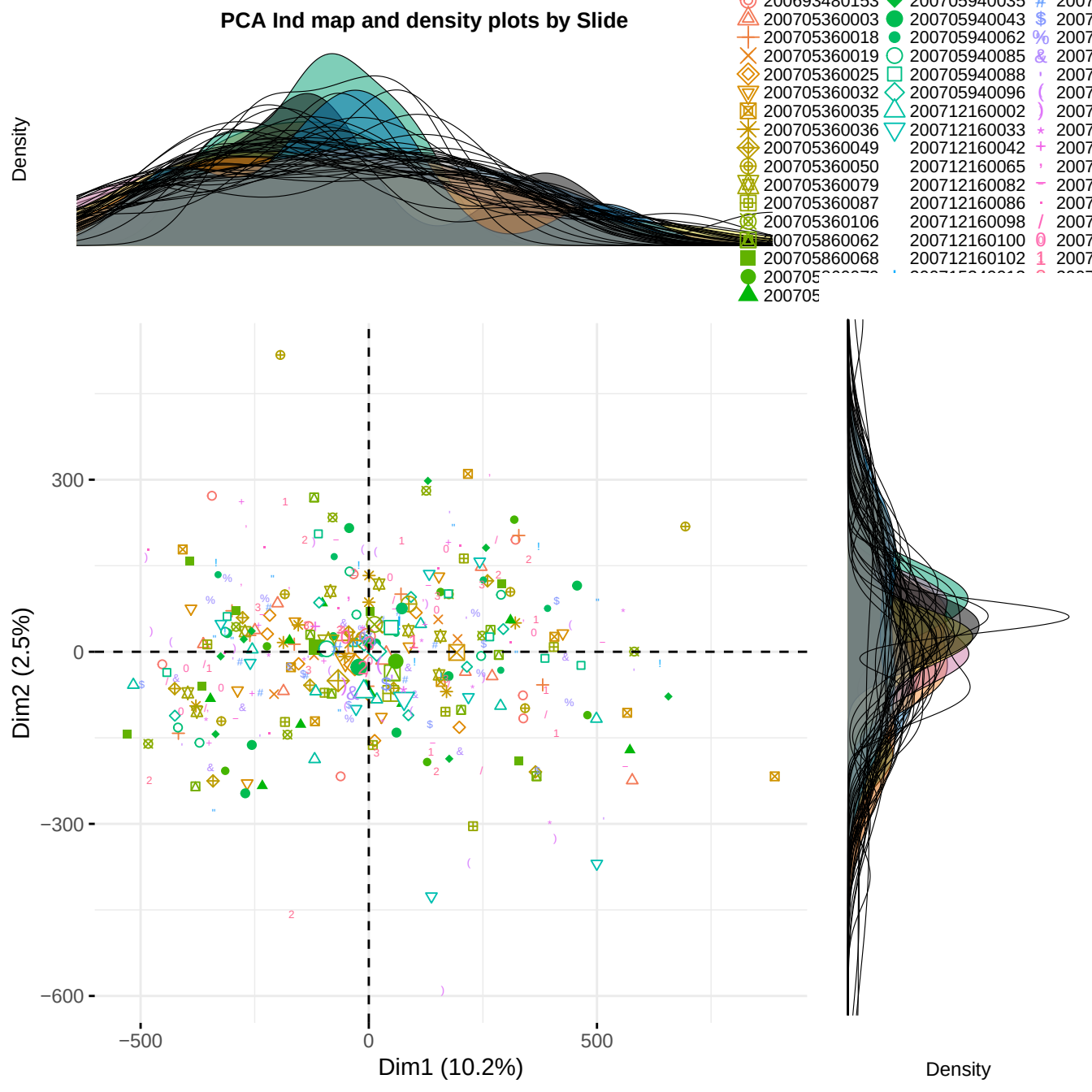
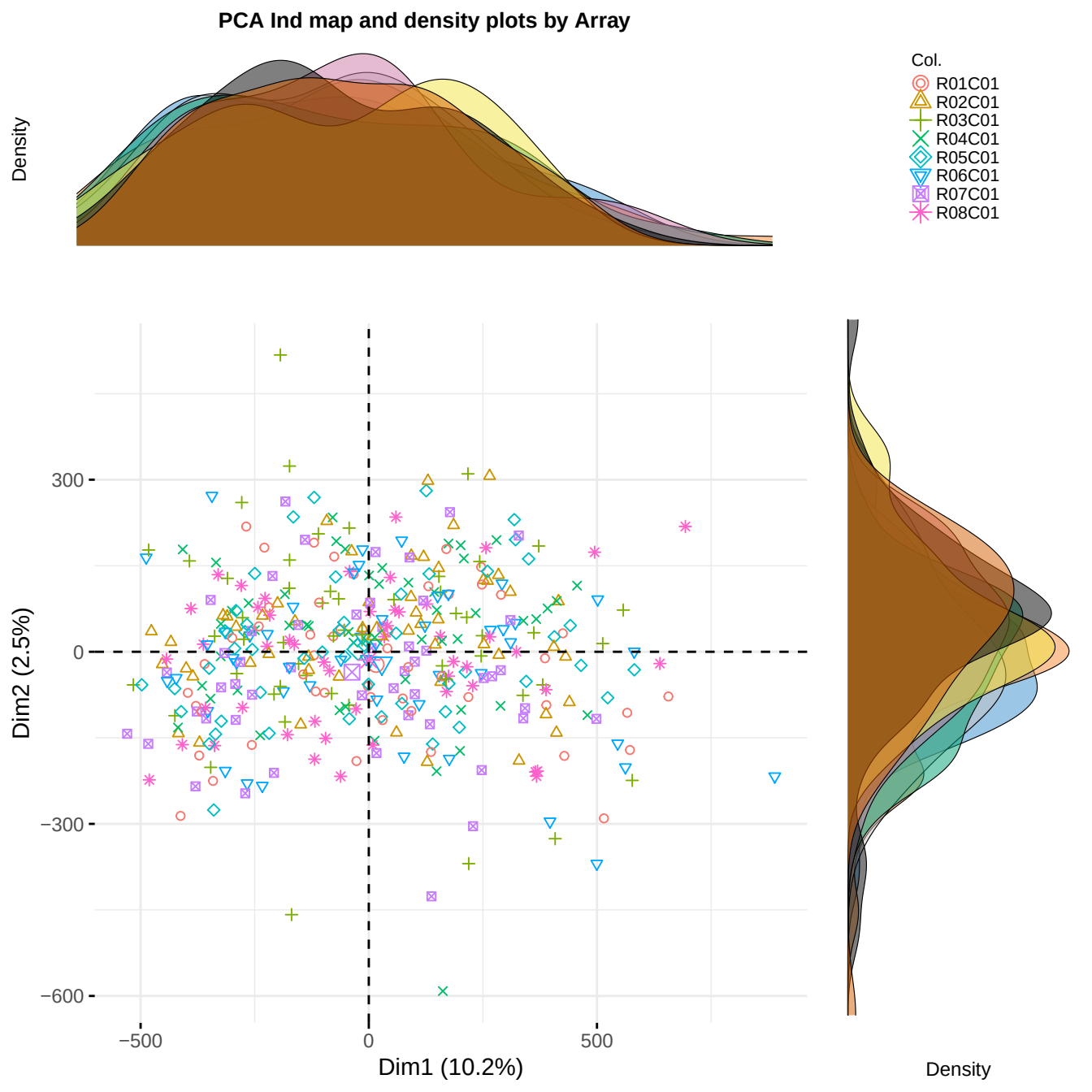
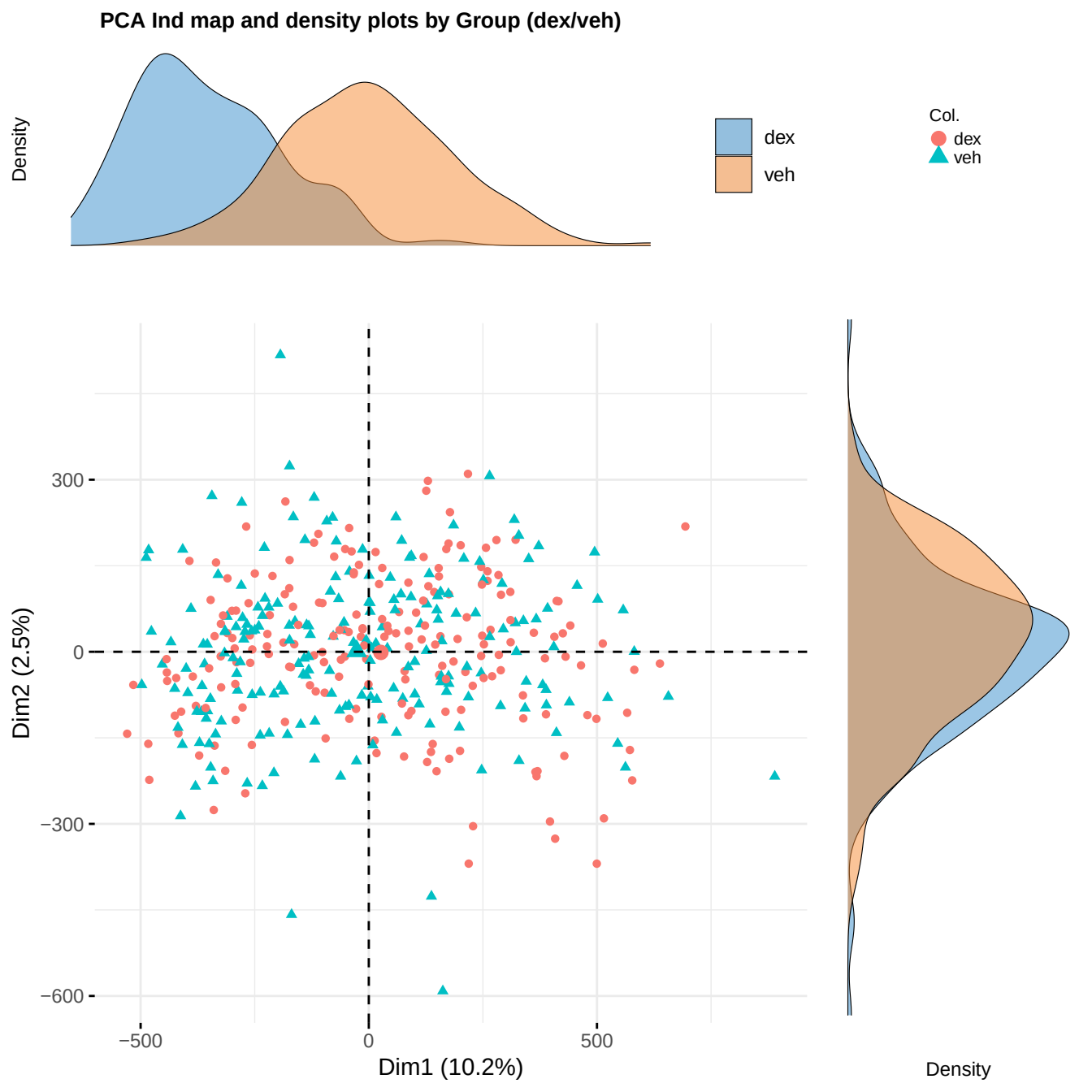

PCA Ind map and density plots by Plate
Density
Col.
EPIC_Juni2016_05
EPIC_Juni2016_06
EPIC_Juni2016_07
EPIC_Juni2016_08
EPIC_Juni2016_09
300
0
−300
−600
Dim2 (2.5%)
−500
0
500
Dim1 (10.2%)
Density


PCA Ind map and density plots by Slide
Density
200705360003
200705360018
200705360019
200705360025
200705360032
200705360035
200705360036
200705360049
200705360050
200705360079
200705360087
200705360106
200705860062
200705860068
200705940043
200705940062
200705940085
200705940088
200705940096
200712160002
200712160033
200712160042
200712160065
200712160082
200712160086
200712160098
200712160100
200712160102
300
0
−300
−600
−500
0
500
Dim1 (10.2%)
Dim2 (2.5%)
Density


PCA Ind map and density plots by Array
Density
Col.
R01C01
R02C01
R03C01
R04C01
R05C01
R06C01
R07C01
R08C01
300
0
−300
−600
Dim2 (2.5%)
−500
0
500
Dim1 (10.2%)
Density


PCA Ind map and density plots by Group (dex/veh)
Density
dex
veh
Col.
dex
veh
300
0
−300
−600
−500
0
500
Dim2 (2.5%)
Dim1 (10.2%)
Density


PCA Ind map and density plots by Sex
Density
M
W
Col.
M
W
300
0
−300
−600
Dim2 (2.5%)
−500
0
500
Dim1 (10.2%)
Density

Summary table of P−values for PCs

	P_Plate	P_Slide	P_Array	P_DEX	P_Sex
PC1.Pr..F.	0.9993232	1.0000000	0.99763724	3.829981e−65	9.212460e−01
PC2.Pr..F.	0.9412618	0.9999814	0.01575053	1.586547e−01	4.826909e−01
PC3.Pr..F.	0.9853525	0.9999992	0.16007909	2.477742e−04	8.792224e−01
PC4.Pr..F.	0.9961937	0.9983832	0.02411414	2.506286e−01	9.772478e−01
PC5.Pr..F.	0.9999384	1.0000000	0.97359020	6.912009e−01	1.228389e−16
PC6.Pr..F.	0.9880057	1.0000000	0.28035526	5.411160e−01	7.750014e−11

ANOVA results for Plate

```
$PC1
Analysis of Variance Table

Response: pc
                         Df   Sum Sq Mean Sq F value Pr(>F)
prin.comp$Sample_Plate    4     5685    1421  0.0186 0.9993
Residuals               398 30443374   76491

$PC2
Analysis of Variance Table

Response: pc
                         Df  Sum Sq Mean Sq F value Pr(>F)
prin.comp$Sample_Plate    4   14390  3597.4  0.1944 0.9413
Residuals               398 7364614 18504.1

$PC3
Analysis of Variance Table

Response: pc
                         Df  Sum Sq Mean Sq F value Pr(>F)
prin.comp$Sample_Plate    4    4528    1132  0.0907 0.9854
Residuals               398 4967513   12481

$PC4
Analysis of Variance Table

Response: pc
                         Df  Sum Sq Mean Sq F value Pr(>F)
prin.comp$Sample_Plate    4    1148   286.9  0.0448 0.9962
Residuals               398 2546519  6398.3

$PC5
Analysis of Variance Table

Response: pc
                         Df  Sum Sq Mean Sq F value Pr(>F)
prin.comp$Sample_Plate    4     129    32.4  0.0056 0.9999
Residuals               398 2317575  5823.1

$PC6
Analysis of Variance Table

Response: pc
                         Df  Sum Sq Mean Sq F value Pr(>F)
prin.comp$Sample_Plate    4    1724   431.1  0.0816  0.988
Residuals               398 2103316  5284.7

$PC7
Analysis of Variance Table

Response: pc
```

ANOVA results for Slide

```
$PC1
Analysis of Variance Table

Response: pc
                                        Df   Sum Sq Mean Sq F value Pr(>F)
as.factor(as.character(prin.comp$Slide))  50   297169    5943  0.0694      1
Residuals                               352 30151890   85659

$PC2
Analysis of Variance Table

Response: pc
                                        Df  Sum Sq Mean Sq F value Pr(>F)
as.factor(as.character(prin.comp$Slide))  50  361436  7228.7  0.3626      1
Residuals                               352 7017568 19936.3

$PC3
Analysis of Variance Table

Response: pc
                                        Df  Sum Sq Mean Sq F value Pr(>F)
as.factor(as.character(prin.comp$Slide))  50  202479  4049.6  0.2989      1
Residuals                               352 4769562 13549.9

$PC4
Analysis of Variance Table

Response: pc
                                        Df  Sum Sq Mean Sq F value Pr(>F)
as.factor(as.character(prin.comp$Slide))  50  167756  3355.1  0.4962 0.9984
Residuals                               352 2379911  6761.1

$PC5
Analysis of Variance Table

Response: pc
                                        Df  Sum Sq Mean Sq F value Pr(>F)
as.factor(as.character(prin.comp$Slide))  50   44552   891.0   0.138      1
Residuals                               352 2273152  6457.8

$PC6
Analysis of Variance Table

Response: pc
                                        Df  Sum Sq Mean Sq F value Pr(>F)
as.factor(as.character(prin.comp$Slide))  50   73253  1465.1  0.2538      1
Residuals                               352 2031788  5772.1

$PC7
Analysis of Variance Table

Response: pc
```

ANOVA results for Array

```
$PC1
Analysis of Variance Table

Response: pc
                Df   Sum Sq Mean Sq F value Pr(>F)
prin.comp$Array   7    59735    8534  0.1109 0.9976
Residuals       395 30389324   76935

$PC2
Analysis of Variance Table

Response: pc
                Df  Sum Sq Mean Sq F value  Pr(>F)
prin.comp$Array   7  313693   44813  2.5054 0.01575 *
Residuals       395 7065311   17887
---
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 Pr(>F)
prin.comp$Array   7  130084   18583   1.516 0.1601
Residuals       395 4841957   12258

$PC4
Analysis of Variance Table

Response: pc
                Df  Sum Sq Mean Sq F value  Pr(>F)
prin.comp$Array   7  101203 14457.5  2.3343 0.02411 *
Residuals       395 2446464  6193.6
---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ..... 0.1 ... ... 1

$PC5
Analysis of Variance Table

Response: pc
                Df  Sum Sq Mean Sq F value Pr(>F)
prin.comp$Array   7   10022  1431.8  0.2451 0.9736
Residuals       395 2307682  5842.2

$PC6
Analysis of Variance Table

Response: pc
                Df  Sum Sq Mean Sq F value Pr(>F)
prin.comp$Array   7   45208  6458.3  1.2385 0.2804
Residuals       395 2059832  5214.8
```

ANOVA results for Sample Group

```
$PC1
Analysis of Variance Table

Response: pc
                       Df   Sum Sq  Mean Sq F value    Pr(>F)
prin.comp$Sample_Group   1 15706828 15706828  427.24 < 2.2e-16 ***
Residuals              401 14742231    36764
---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ..... 0.1 ... ... 1

$PC2
Analysis of Variance Table

Response: pc
                       Df  Sum Sq Mean Sq F value Pr(>F)
prin.comp$Sample_Group   1   36519   36519  1.9944 0.1587
Residuals              401 7342485   18310

$PC3
Analysis of Variance Table

Response: pc
                       Df  Sum Sq Mean Sq F value    Pr(>F)
prin.comp$Sample_Group   1  163950  163950  13.674 0.0002478 ***
Residuals              401 4808091   11990
---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ..... 0.1 ... ... 1

$PC4
Analysis of Variance Table

Response: pc
                       Df  Sum Sq Mean Sq F value Pr(>F)
prin.comp$Sample_Group   1    8382  8381.7  1.3236 0.2506
Residuals              401 2539285  6332.4

$PC5
Analysis of Variance Table

Response: pc
                       Df  Sum Sq Mean Sq F value Pr(>F)
prin.comp$Sample_Group   1     913   912.9   0.158 0.6912
Residuals              401 2316791  5777.5

$PC6
Analysis of Variance Table

Response: pc
                       Df  Sum Sq Mean Sq F value Pr(>F)
prin.comp$Sample_Group   1    1962  1962.1  0.3741 0.5411
Residuals              401 2103078  5244.6
```

ANOVA results for Sex

```
$PC1
Analysis of Variance Table

Response: pc
               Df   Sum Sq Mean Sq F value Pr(>F)
prin.comp$sex   1      743     743  0.0098 0.9212
Residuals     401 30448316   75931

$PC2
Analysis of Variance Table

Response: pc
               Df  Sum Sq Mean Sq F value Pr(>F)
prin.comp$sex   1    9074  9073.6  0.4937 0.4827
Residuals     401 7369930 18378.9

$PC3
Analysis of Variance Table

Response: pc
               Df  Sum Sq Mean Sq F value Pr(>F)
prin.comp$sex   1     287   286.6  0.0231 0.8792
Residuals     401 4971754 12398.4

$PC4
Analysis of Variance Table

Response: pc
               Df  Sum Sq Mean Sq F value Pr(>F)
prin.comp$sex   1       5     5.2   8e-04 0.9772
Residuals     401 2547662  6353.3

$PC5
Analysis of Variance Table

Response: pc
               Df  Sum Sq Mean Sq F value    Pr(>F)
prin.comp$sex   1  364669  364669  74.874 < 2.2e-16 ***
Residuals     401 1953035    4870
---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ..... 0.1 ... ... 1

$PC6
Analysis of Variance Table

Response: pc
               Df  Sum Sq Mean Sq F value   Pr(>F)
prin.comp$sex   1  211083  211083  44.692 7.75e-11 ***
Residuals     401 1893957    4723
---
Signif. codes:  0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ..... 0.1 ... ... 1
```