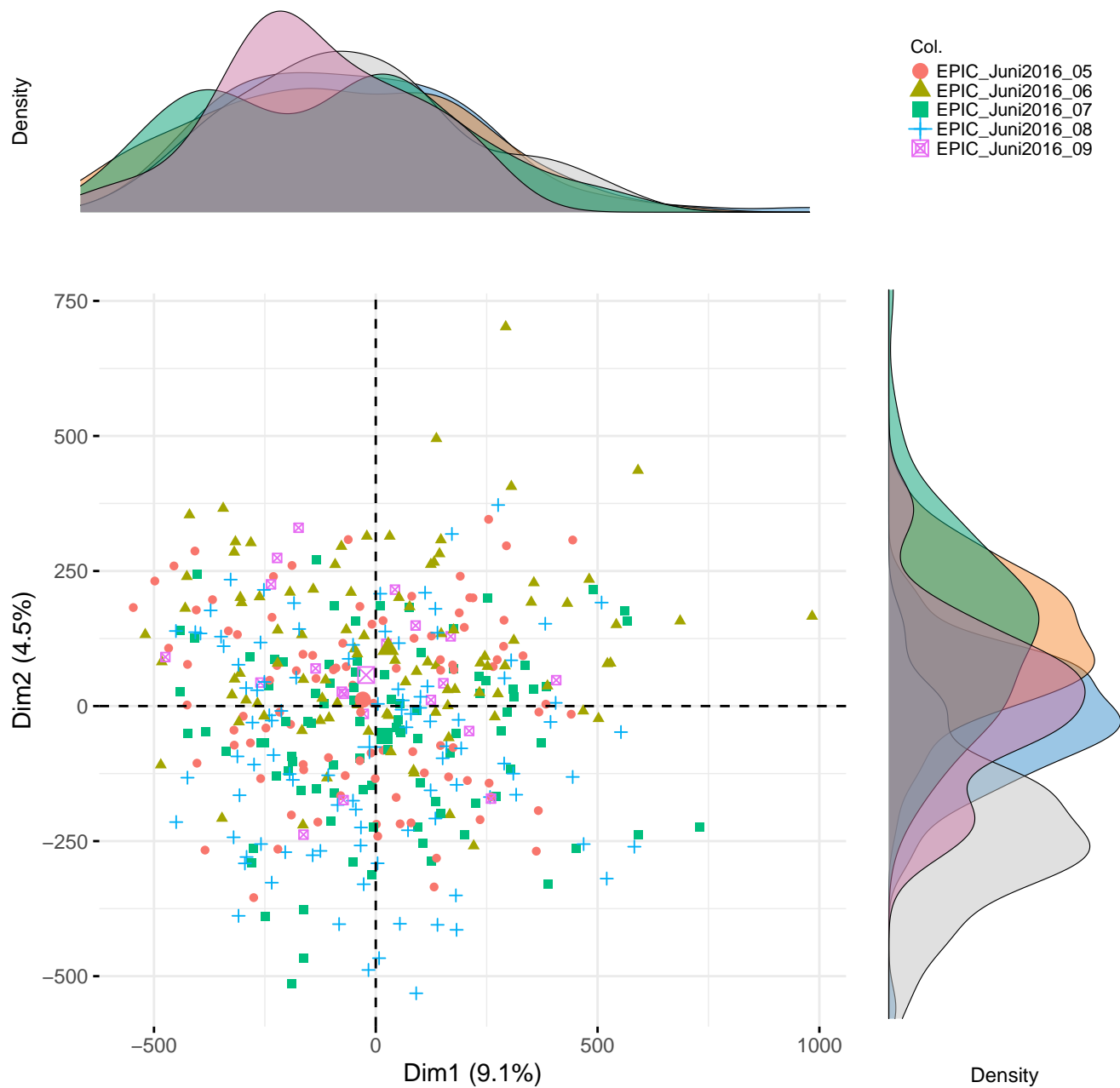
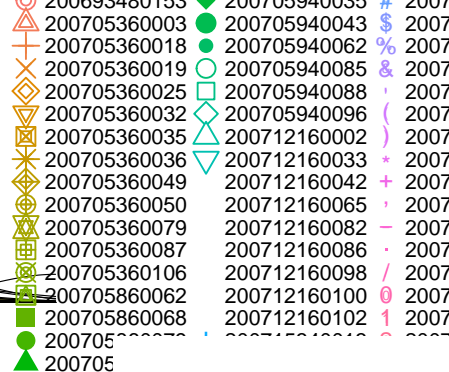
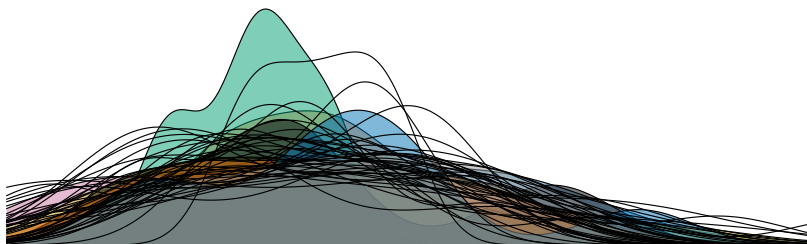


PCA Ind map and density plots by Plate



PCA Ind map and density plots by Slide

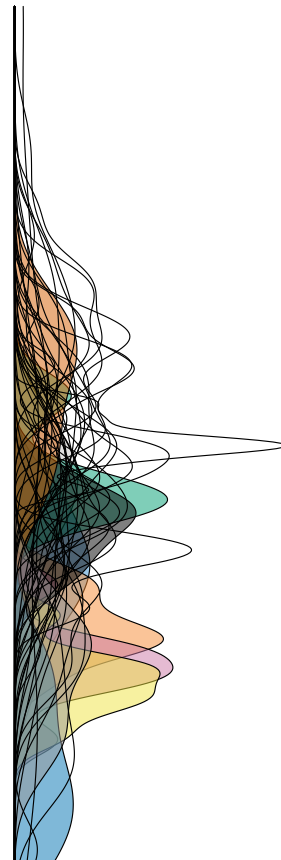
Density



Dim2 (4.5%)

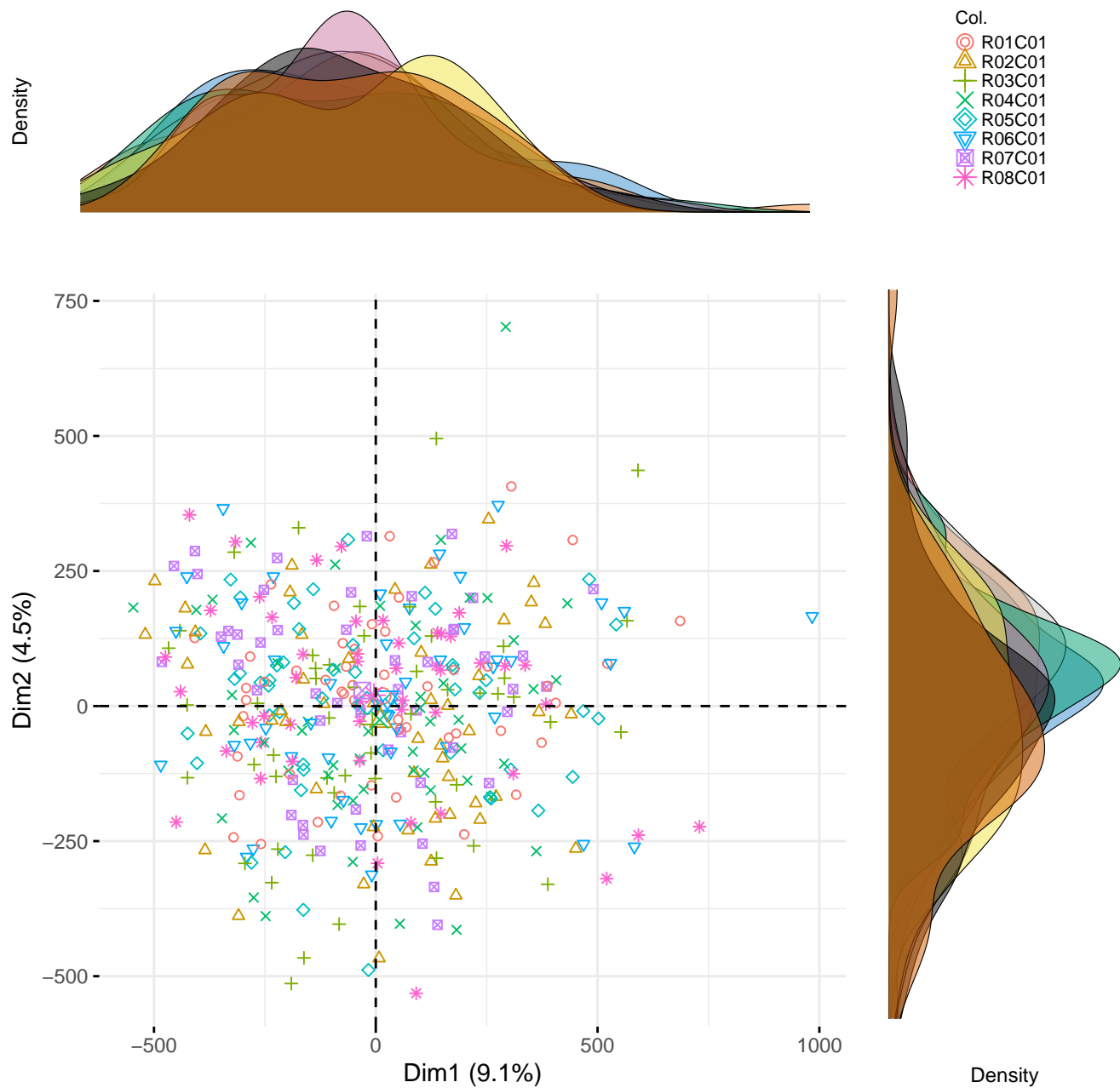


Dim1 (9.1%)

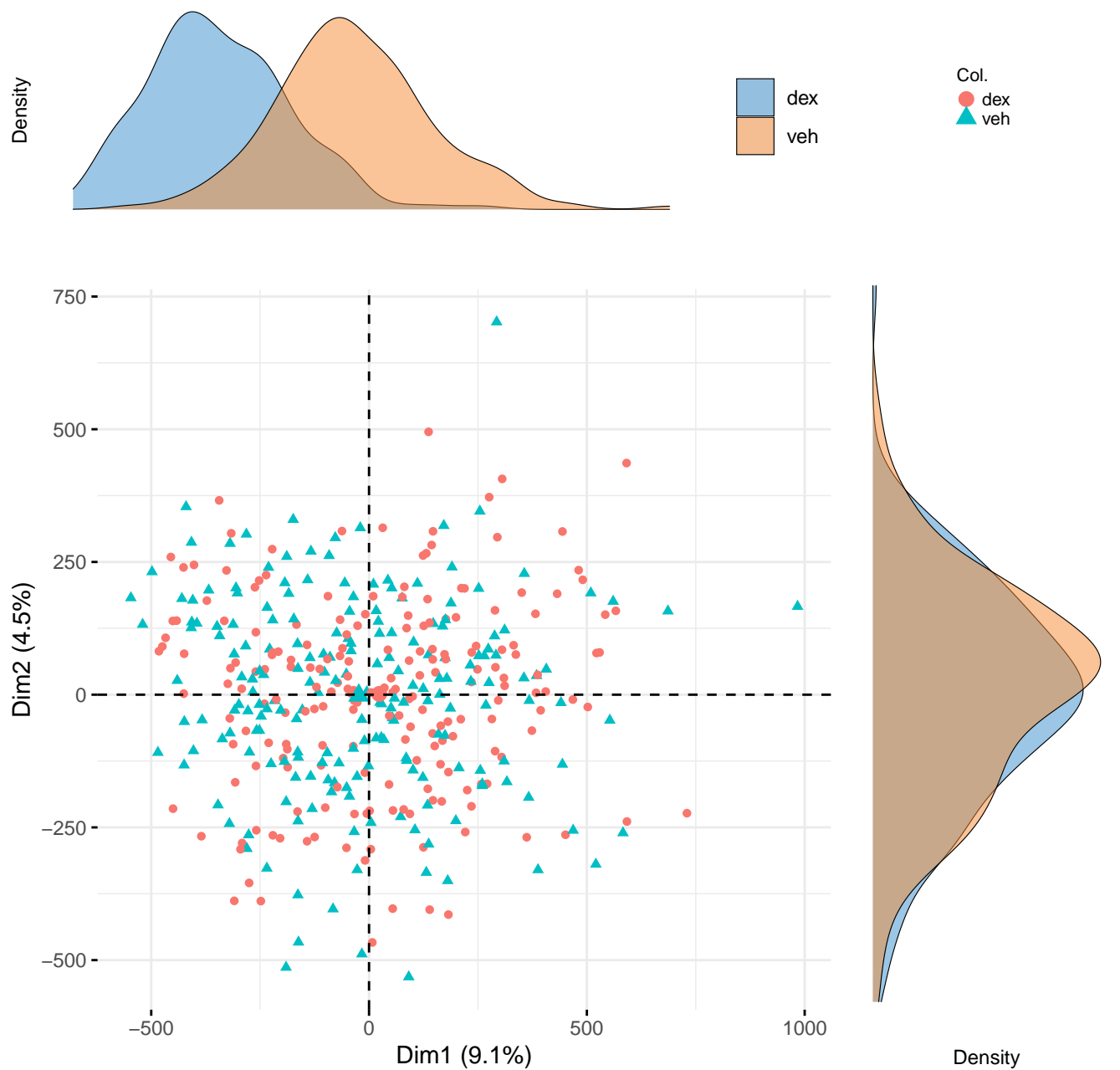


Density

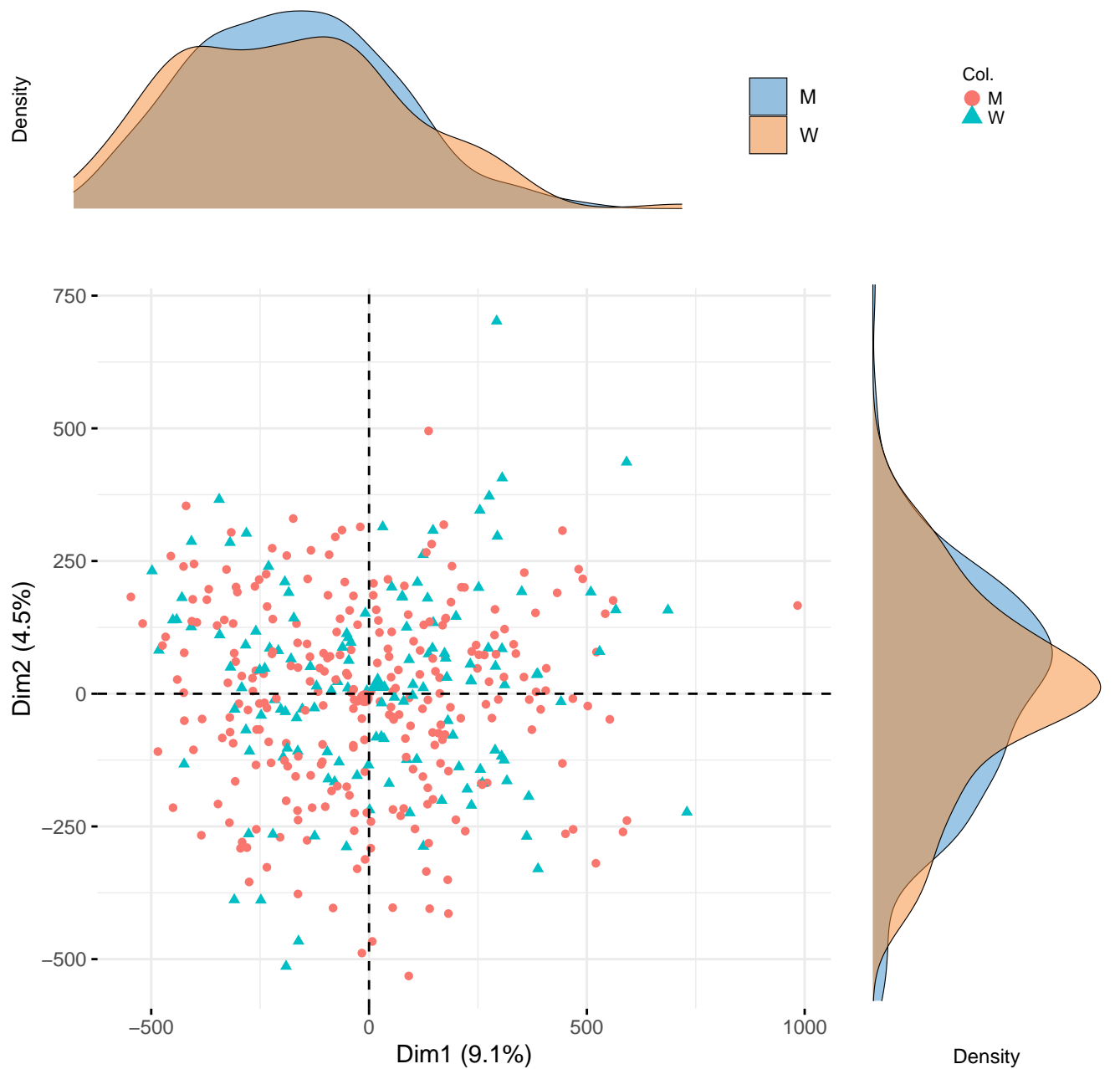
PCA Ind map and density plots by Array



PCA Ind map and density plots by Group (dex/veh)



PCA Ind map and density plots by Sex



Summary table of P-values for PCs

	P_Plate	P_Slide	P_Array	P_DEX	P_Sex
PC1.Pr..F.	3.922155e-01	9.945351e-01	0.9987875	1.110613e-54	0.8555600
PC2.Pr..F.	8.354970e-61	4.096623e-63	0.2114685	5.293460e-01	0.7496652
PC3.Pr..F.	6.856596e-48	8.309976e-56	0.7807499	7.607718e-03	0.1534051
PC4.Pr..F.	1.603862e-10	1.103622e-33	0.5920072	3.768405e-03	0.4001160
PC5.Pr..F.	3.484037e-19	1.185011e-73	0.9841669	1.437972e-01	0.3542154
PC6.Pr..F.	1.871551e-01	5.848914e-11	0.9996185	3.784186e-01	0.6083503

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  276322    69081  1.0285 0.3922
Residuals              398 26731649    67165

$PC2
Analysis of Variance Table

Response: pc
              Df Sum Sq Mean Sq F value Pr(>F)
prin.comp$Sample_Plate  4 6896761 1724190  104.6 < 2.2e-16 ***
Residuals              398 6560663   16484
---
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$Sample_Plate  4 3009563  752391  76.123 < 2.2e-16 ***
Residuals              398 3933808    9884
---
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_Plate  4  746976  186744  13.762 1.604e-10 ***
Residuals              398 5400722   13570
---
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$Sample_Plate  4  813522  203380  26.03 < 2.2e-16 ***
Residuals              398 3109709    7813
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

$PC6
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  1953597    39072   0.5489  0.9945
Residuals                                352 25054374    71177

$PC2
Analysis of Variance Table

Response: pc
              Df Sum Sq Mean Sq F value Pr(>F)
as.factor(as.character(prin.comp$Slide))  50  9275996    185520  15.617 < 2.2e-16
Residuals                                352 4181427    11879

as.factor(as.character(prin.comp$Slide)) ***
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 Pr(>F)
as.factor(as.character(prin.comp$Slide))  50 4553507    91070  13.414 < 2.2e-16
Residuals                                352 2389865    6789

as.factor(as.character(prin.comp$Slide)) ***
Residuals
---
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)
as.factor(as.character(prin.comp$Slide))  50 3236368    64727   7.826 < 2.2e-16
Residuals                                352 2911330    8271

as.factor(as.character(prin.comp$Slide)) ***
Residuals
---
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)
```

ANOVA results for Array

\$PC1

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Array	7	43104	6158	0.0902	0.9988
Residuals	395	26964867	68265		

\$PC2

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Array	7	321616	45945	1.3816	0.2115
Residuals	395	13135808	33255		

\$PC3

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Array	7	69375	9910.7	0.5695	0.7807
Residuals	395	6873996	17402.5		

\$PC4

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Array	7	85387	12198	0.7948	0.592
Residuals	395	6062311	15348		

\$PC5

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Array	7	14232	2033.1	0.2054	0.9842
Residuals	395	3908999	9896.2		

\$PC6

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Array	7	3652	521.7	0.0635	0.9996
Residuals	395	3246345	8218.6		

\$PC7

Analysis of Variance Table

Response: pc

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	12266995	12266995	333.7	< 2.2e-16 ***			
Residuals	401	14740976	36761					

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	13288	13288	0.3963	0.5293
Residuals	401	13444136	33527		

\$PC3

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)			
prin.comp\$Sample_Group	1	122407	122407	7.1963	0.007608 **			
Residuals	401	6820964	17010					

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	127480	127480	8.4913	0.003768 **			
Residuals	401	6020218	15013					

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\$Sample_Group	1	20876	20876.4	2.1452	0.1438
Residuals	401	3902354	9731.6		

\$PC6

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Sample_Group	1	6290	6289.7	0.7776	0.3784

ANOVA results for Sex

\$PC1

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$sex	1	2234	2234	0.0332	0.8556
Residuals	401	27005737	67346		

\$PC2

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$sex	1	3421	3421	0.102	0.7497
Residuals	401	13454003	33551		

\$PC3

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$sex	1	35244	35244	2.0458	0.1534
Residuals	401	6908128	17227		

\$PC4

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$sex	1	10858	10858	0.7095	0.4001
Residuals	401	6136840	15304		

\$PC5

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$sex	1	8399	8398.7	0.8603	0.3542
Residuals	401	3914832	9762.7		

\$PC6

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$sex	1	2130	2130.1	0.263	0.6084
Residuals	401	3247867	8099.4		

\$PC7

Analysis of Variance Table

Response: pc