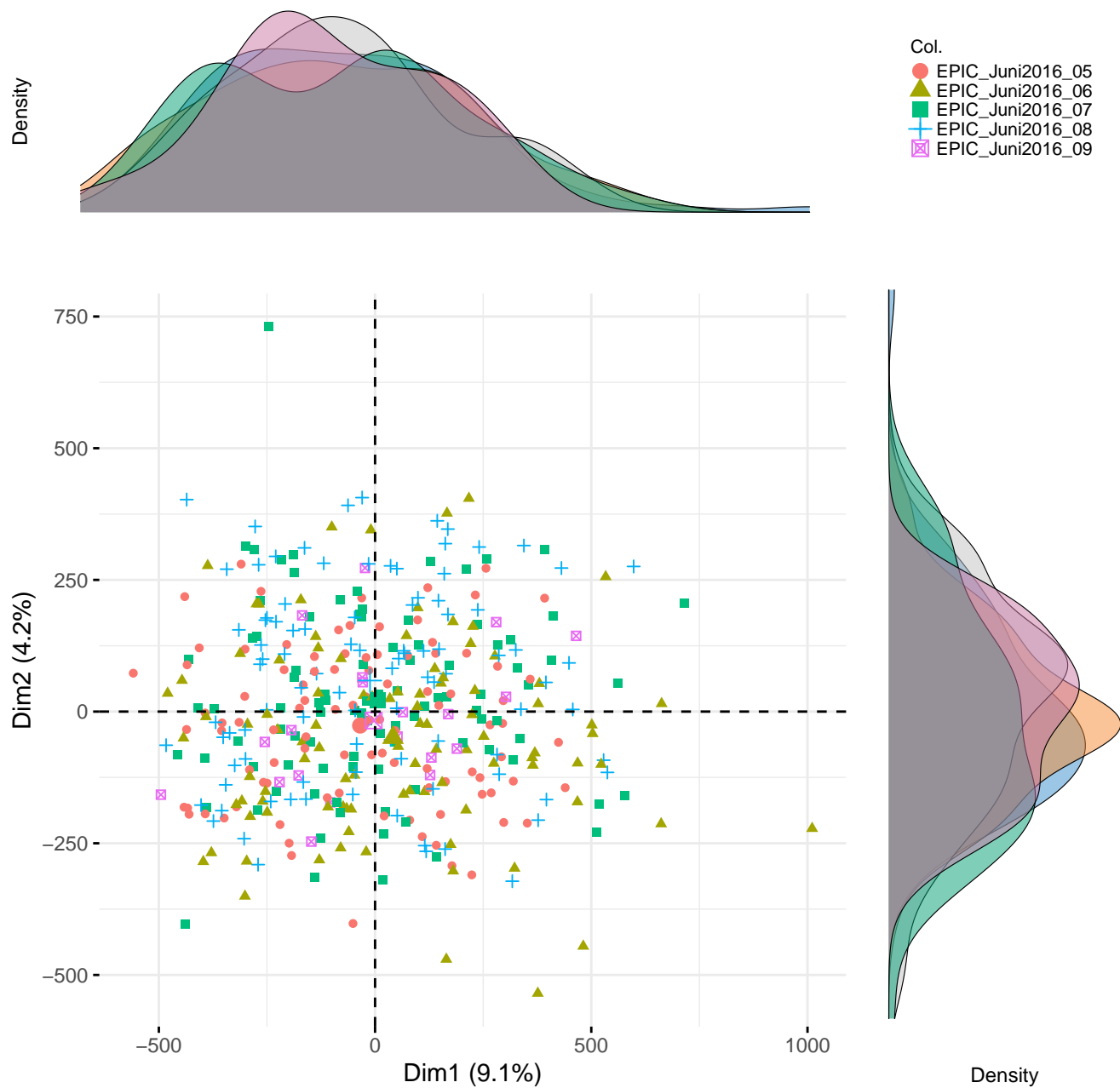
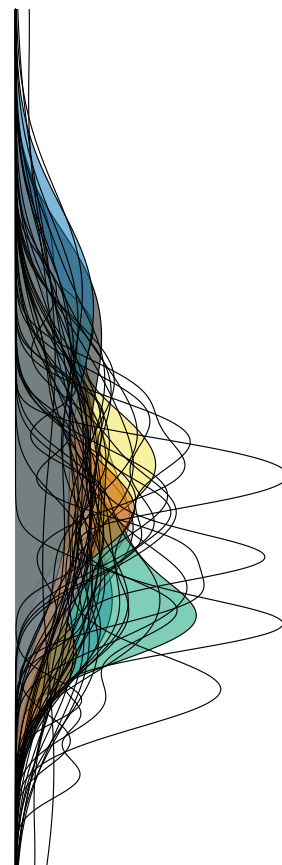
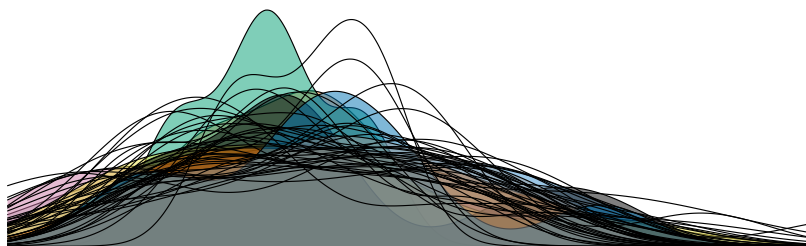


PCA Ind map and density plots by Plate

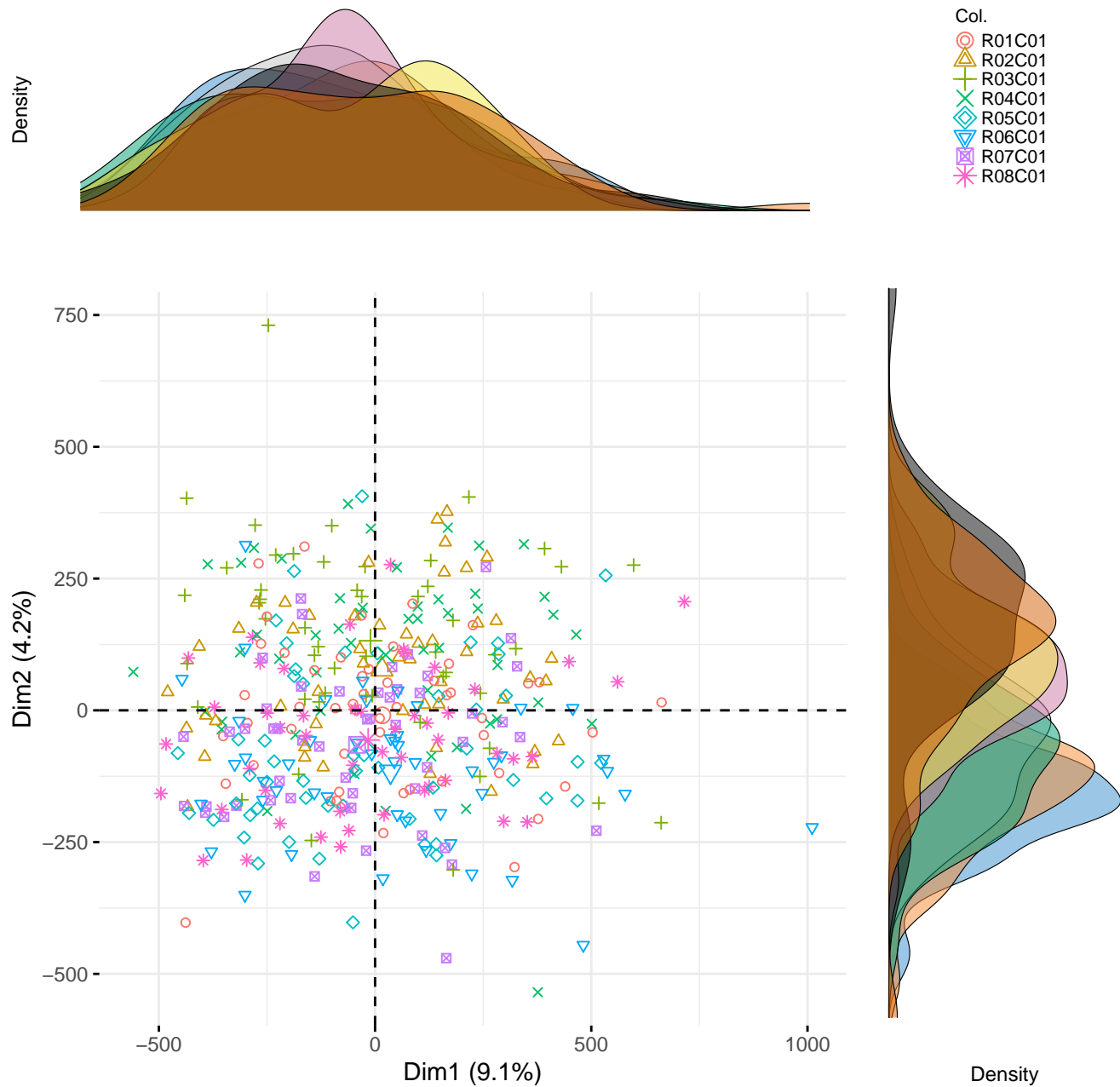


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2007053600018	2007059400062	%	2007053600018
2007053600019	2007059400085	&	2007053600019
2007053600025	2007059400088	°	2007053600025
2007053600032	2007059400096	(2007053600032
2007053600035	200712160002)	2007053600035
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2007053600049	2007121600042	+	2007053600049
2007053600050	2007121600065	=	2007053600050
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2007053600087	2007121600086	°	2007053600087
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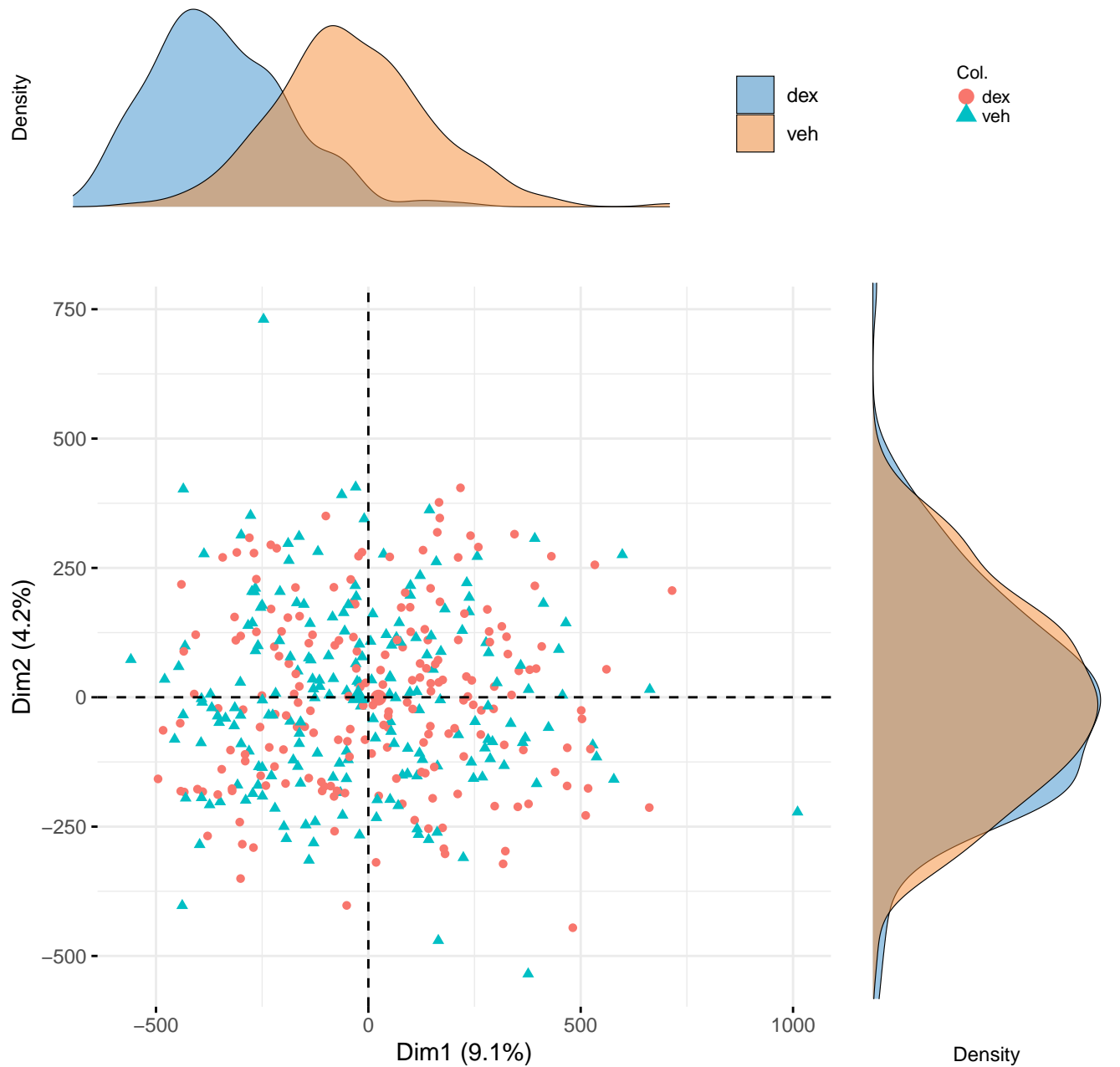


Density

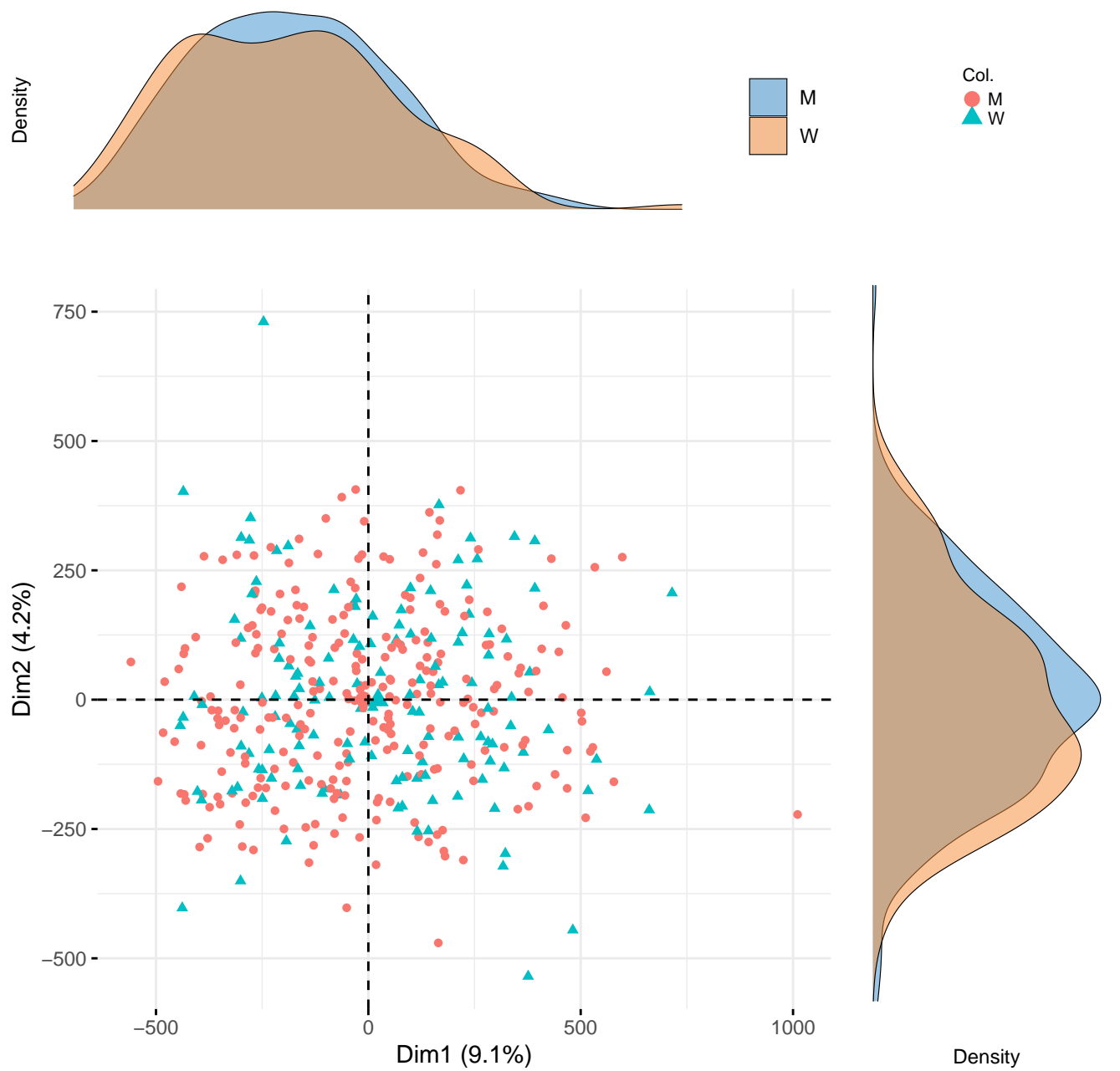
PCA Ind map and density plots by Array



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.	0.9953228	9.986590e-01	8.248444e-01	9.768054e-56	0.70463336
PC2.Pr..F.	0.5363231	1.293946e-06	9.977032e-43	8.681550e-01	0.23994564
PC3.Pr..F.	0.9897928	1.018913e-05	2.594093e-04	2.810230e-04	0.35226088
PC4.Pr..F.	0.3329909	1.002059e-69	2.407481e-12	2.692108e-01	0.03337598
PC5.Pr..F.	0.8656661	1.942206e-14	8.713195e-01	8.022871e-01	0.36576084
PC6.Pr..F.	0.5378307	1.471388e-12	2.100520e-02	3.703995e-02	0.58709252

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      13644      3411  0.0499  0.9953
Residuals              398  27217439      68386

$PC2
Analysis of Variance Table

Response: pc

              Df    Sum Sq Mean Sq F value Pr(>F)
prin.comp$$Sample_Plate  4      96929      24232  0.7836  0.5363
Residuals              398 12307924      30924

$PC3
Analysis of Variance Table

Response: pc

              Df    Sum Sq Mean Sq F value Pr(>F)
prin.comp$$Sample_Plate  4       5148      1286.9  0.0749  0.9898
Residuals              398 6836231      17176.5

$PC4
Analysis of Variance Table

Response: pc

              Df    Sum Sq Mean Sq F value Pr(>F)
prin.comp$$Sample_Plate  4      49793      12448  1.1491  0.333
Residuals              398 4311529      10833

$PC5
Analysis of Variance Table

Response: pc

              Df    Sum Sq Mean Sq F value Pr(>F)
prin.comp$$Sample_Plate  4      11435      2858.9  0.3184  0.8657
Residuals              398 3573966      8979.8

$PC6
Analysis of Variance Table

Response: pc

              Df    Sum Sq Mean Sq F value Pr(>F)
prin.comp$$Sample_Plate  4      26538      6634.5  0.7813  0.5378
Residuals              398 3379738      8491.8

$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  1768607    35372    0.489  0.9987
Residuals                                352 25462477    72337

$PC2
Analysis of Variance Table

Response: pc

              Df Sum Sq Mean Sq F value    Pr(>F)
as.factor(as.character(prin.comp$Slide))  50  3195185    63904    2.4424 1.294e-06
Residuals                                352  9209668    26164

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  1662880    33258    2.2606 1.019e-05
Residuals                                352  5178499    14712

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  3124977    62500   17.794 < 2.2e-16
Residuals                                352  1236345     3512

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	245310	35044	0.513	0.8248
Residuals	395	26985773	68318		

\$PC2

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Array	7	5173291	739042	40.368	< 2.2e-16 ***
Residuals	395	7231561	18308		

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	458983	65569	4.058	0.0002594 ***
Residuals	395	6382396	16158		

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\$Array	7	694600	99229	10.69	2.407e-12 ***
Residuals	395	3666722	9283		

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	28252	4036.0	0.4482	0.8713
Residuals	395	3557150	9005.4		

\$PC6

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Array	7	128413	18344.7	2.2901	0.02101 *

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	12546928	12546928	342.64	< 2.2e-16 ***
Residuals	401	14684155	36619		

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	853	853.5	0.0276	0.8682
Residuals	401	12403999	30932.7		

\$PC3

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Sample_Group	1	221689	221689	13.429	0.000281 ***
Residuals	401	6619690	16508		

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	13273	13274	1.2242	0.2692
Residuals	401	4348048	10843		

\$PC5

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Sample_Group	1	561	561.2	0.0628	0.8023
Residuals	401	3584840	8939.8		

\$PC6

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Sample_Group	1	36785	36785	4.3777	0.03704 *
Residuals	401	3369491	8403		

ANOVA results for Sex

\$PC1

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$sex	1	9769	9769	0.1439	0.7046
Residuals	401	27221315	67884		

\$PC2

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$sex	1	42698	42698	1.385	0.2399
Residuals	401	12362154	30828		

\$PC3

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$sex	1	14765	14765	0.8673	0.3523
Residuals	401	6826614	17024		

\$PC4

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$sex	1	49013	49013	4.5577	0.03338 *
Residuals	401	4312308	10754		

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\$sex	1	7316	7315.7	0.8199	0.3658
Residuals	401	3578086	8922.9		

\$PC6

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$sex	1	2507	2507.3	0.2954	0.5871
Residuals	401	3403769	8488.2		

\$PC7

Analysis of Variance Table