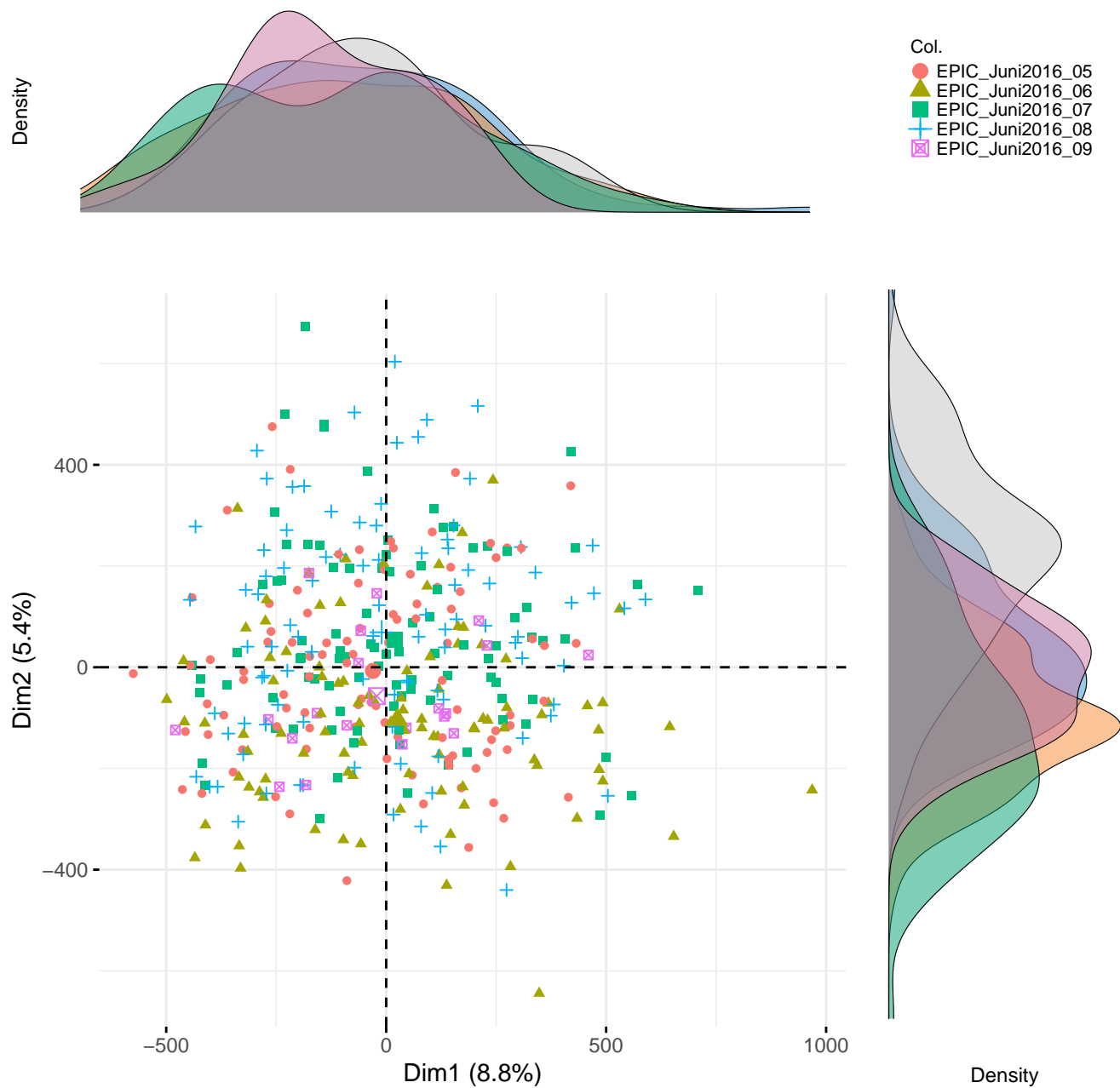
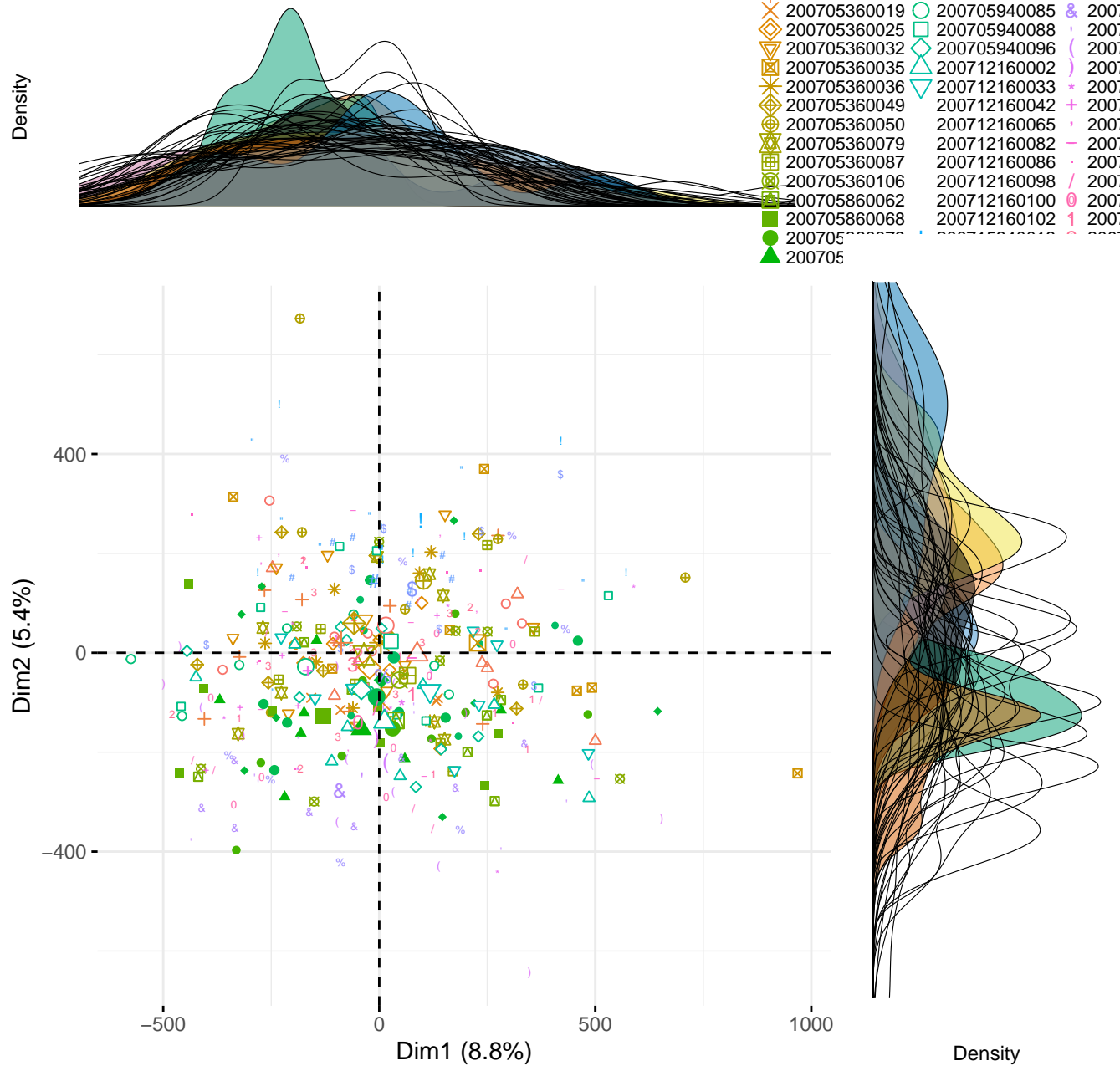


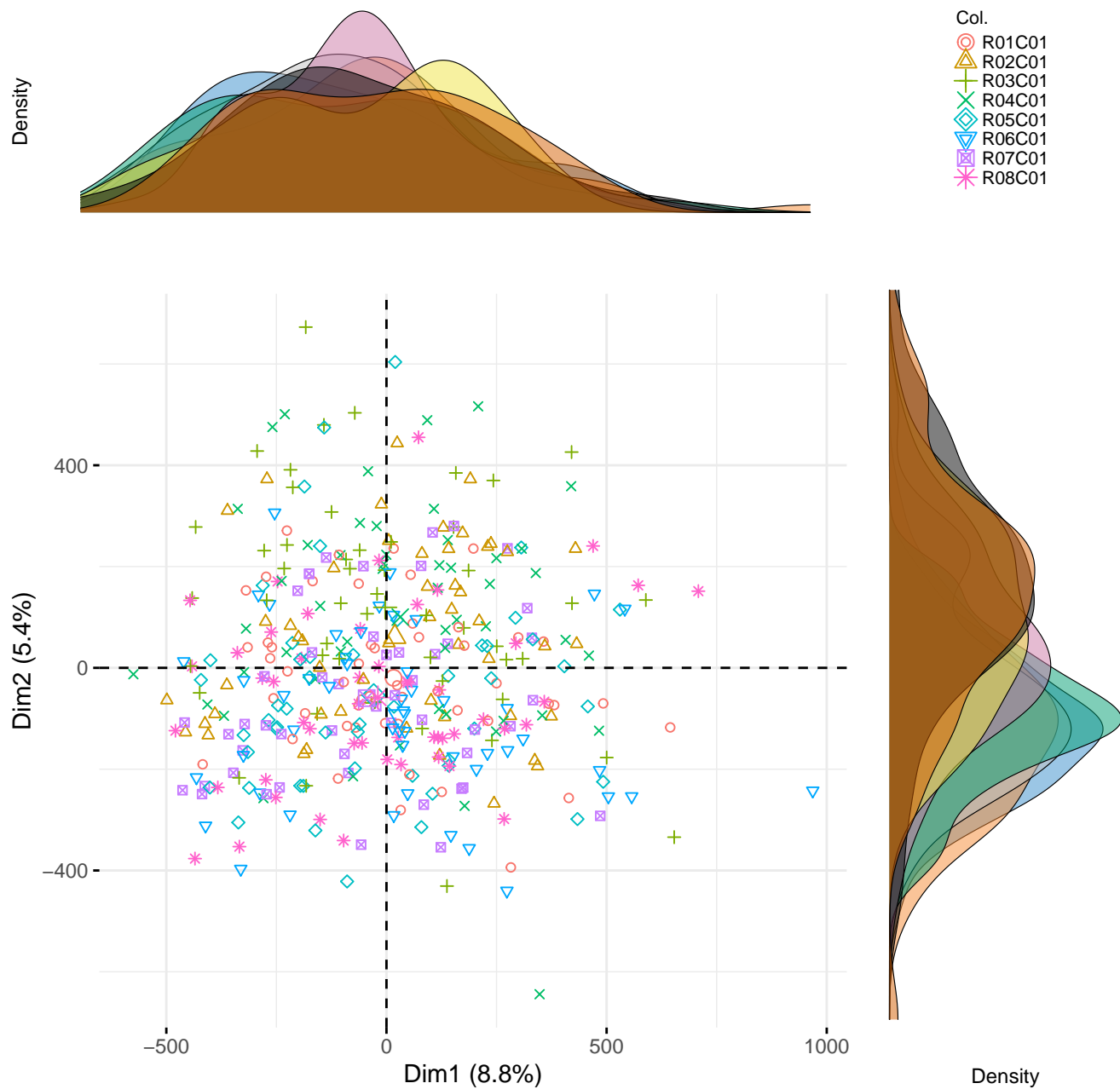
PCA Ind map and density plots before correction by Plate



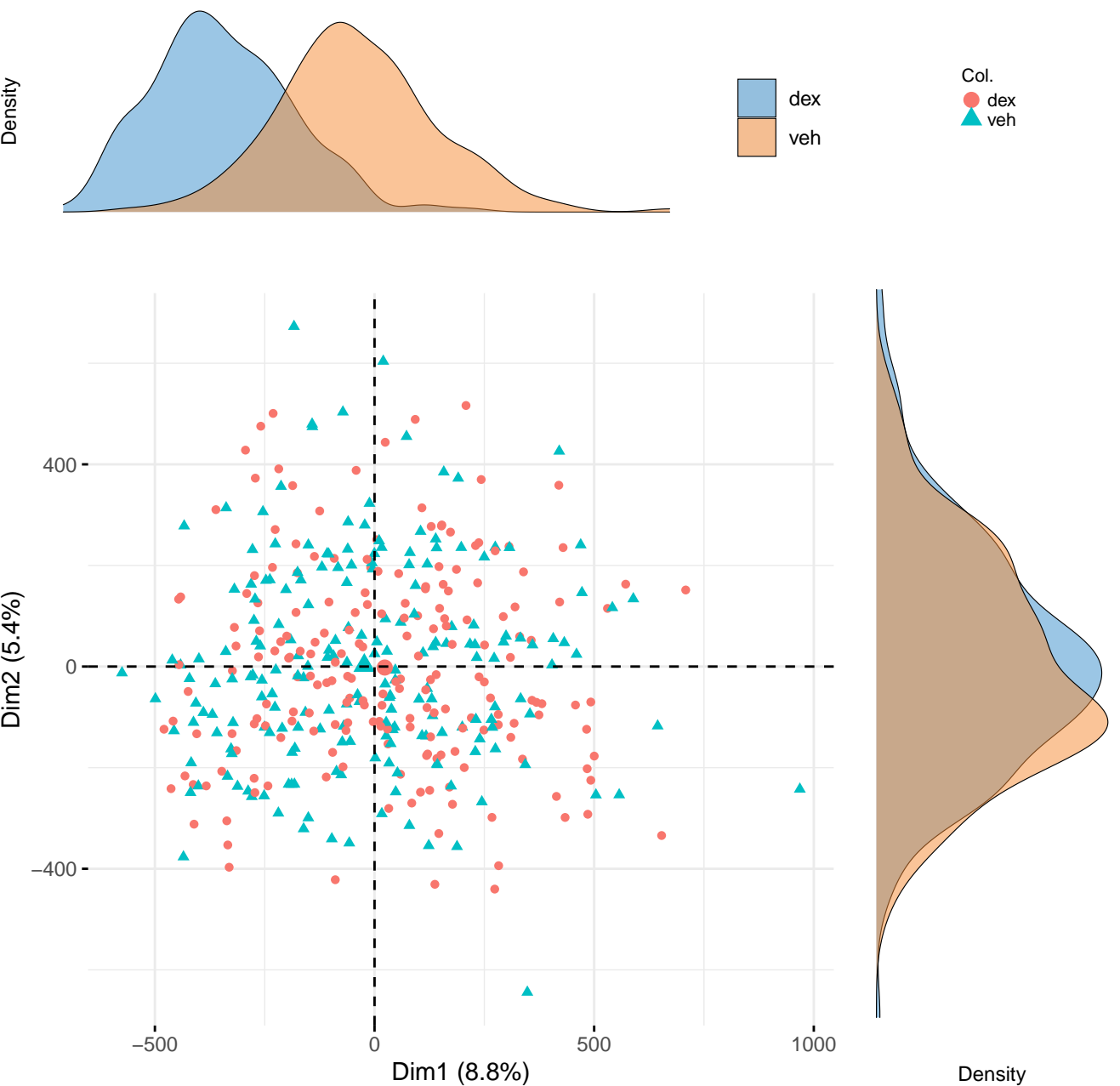
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2007053600003	200705940043	\$	2007
200705360018	200705940062	%	2007
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200705360025	200705940088	'	2007
200705360032	200705940096	(2007
200705360035	200712160002)	2007
200705360036	200712160033	*	2007
200705360049	200712160042	+	2007
200705360050	200712160065	=	2007
200705360079	200712160082	-	2007
200705360087	200712160086	~	2007
200705360106	200712160098	/	2007
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200705			



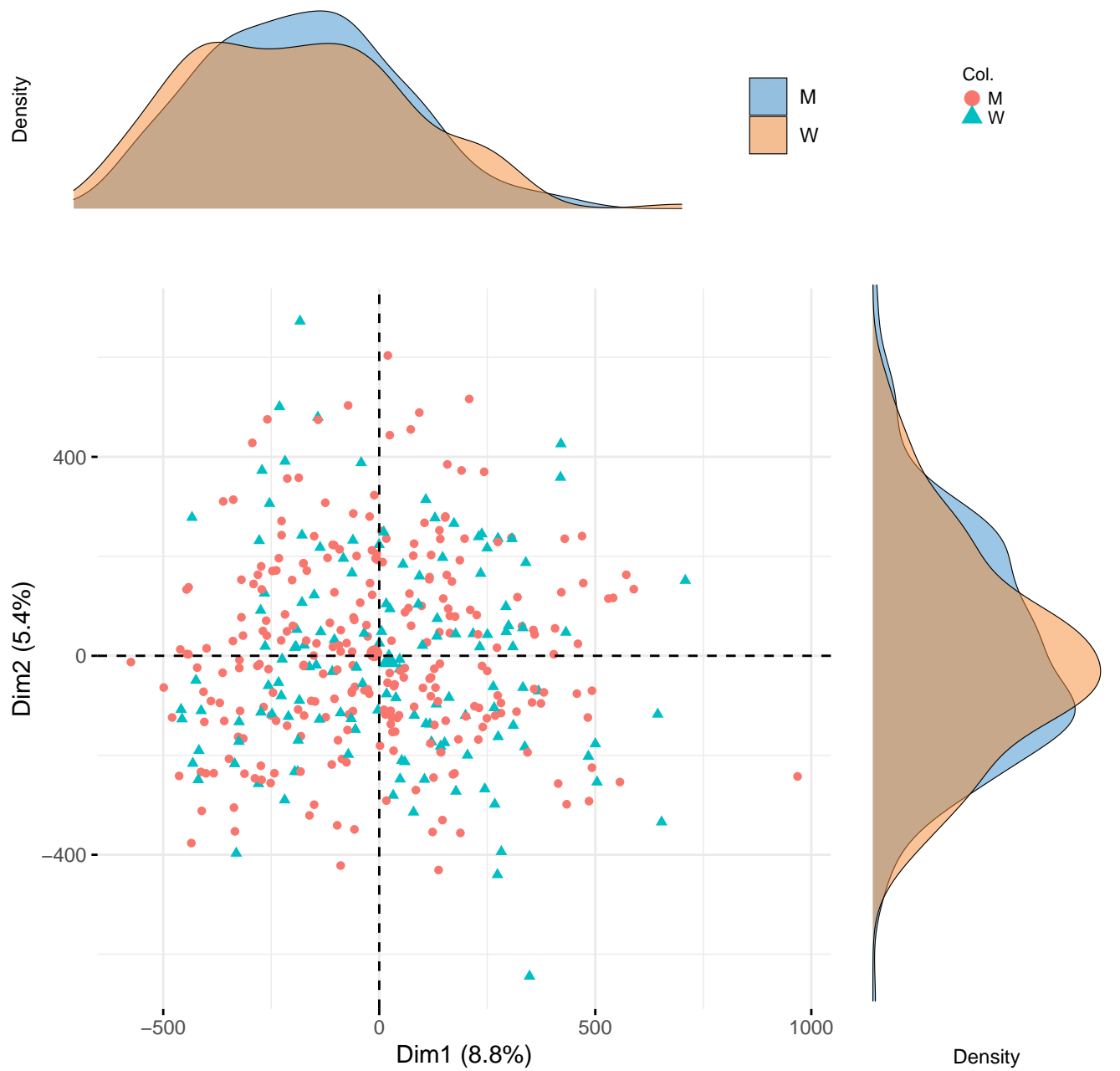
PCA Ind map and density plots before correction by Array



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



PCA Ind map and density plots 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.	3.584438e-01	9.911839e-01	7.085990e-01	3.491603e-54	0.7621092
PC2.Pr..F.	7.263513e-37	3.182475e-32	5.787849e-21	2.709166e-01	0.6017284
PC3.Pr..F.	1.995854e-61	4.116877e-82	1.162186e-11	1.648580e-01	0.1665054
PC4.Pr..F.	1.035088e-01	9.843404e-07	4.540187e-05	3.805267e-04	0.4175180
PC5.Pr..F.	8.744589e-17	2.289277e-46	2.193012e-02	2.511310e-01	0.1440686
PC6.Pr..F.	1.884224e-02	9.600490e-12	1.049526e-01	1.415589e-01	0.6514740

ANOVA results for Plate before batch correction

\$PC1

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Sample_Plate	4	286550	71637	1.0953	0.3584
Residuals	398	26029952	65402		

\$PC2

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Sample_Plate	4	5694470	1423618	54.937	< 2.2e-16 ***
Residuals	398	10313565	25913		

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	3852286	963072	106.08	< 2.2e-16 ***
Residuals	398	3613400	9079		

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	131078	32770	1.937	0.1035
Residuals	398	6733352	16918		

\$PC5

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Sample_Plate	4	721105	180276	22.523	< 2.2e-16 ***
Residuals	398	3185660	8004		

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\$Sample_Plate	4	104104	26026	2.9885	0.01884 *

ANOVA results for Slide before batch correction

```
$PC1
Analysis of Variance Table

Response: pc

              Df Sum Sq Mean Sq F value Pr(>F)
as.factor(as.character(prin.comp$Slide))  50  1980144    39603   0.5728  0.9912
Residuals                                352 24336358    69137

$PC2
Analysis of Variance Table

Response: pc

              Df Sum Sq Mean Sq F value    Pr(>F)
as.factor(as.character(prin.comp$Slide))  50  8260145   165203   7.5055 < 2.2e-16
Residuals                                352 7747890    22011

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 5680492   113610  22.401 < 2.2e-16
Residuals                                352 1785194     5072

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 1780830    35617   2.4662 9.843e-07
Residuals                                352 5083600   14442

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 before batch correction

```
$PC1
Analysis of Variance Table

Response: pc
      Df Sum Sq Mean Sq F value Pr(>F)
prin.comp$Array 7    302818    43260  0.6569 0.7086
Residuals      395  26013684    65857

$PC2
Analysis of Variance Table

Response: pc
      Df Sum Sq Mean Sq F value    Pr(>F)
prin.comp$Array 7    3899786    557112  18.174 < 2.2e-16 ***
Residuals      395  12108249    30654
---
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    1135191    162170  10.119 1.162e-11 ***
Residuals      395  6330496    16027
---
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     526815     75259  4.6906 4.54e-05 ***
Residuals      395  6337615     16045
---
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     157642    22520.3   2.3727 0.02193 *
Residuals      395  3749123     9491.5
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

$PC6
Analysis of Variance Table

Response: pc
```

ANOVA results for Sample Group before batch correction

```
$PC1
Analysis of Variance Table

Response: pc
              Df Sum Sq Mean Sq F value    Pr(>F)
prin.comp$Sample_Group  1 11870882 11870882  329.53 < 2.2e-16 ***
Residuals              401 14445620    36024
---
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   48374   48374   1.2155 0.2709
Residuals              401 15959661   39800

$PC3
Analysis of Variance Table

Response: pc
              Df Sum Sq Mean Sq F value    Pr(>F)
prin.comp$Sample_Group  1   35873   35873   1.9362 0.1649
Residuals              401 7429813   18528

$PC4
Analysis of Variance Table

Response: pc
              Df Sum Sq Mean Sq F value    Pr(>F)
prin.comp$Sample_Group  1  213020  213020  12.842 0.0003805 ***
Residuals              401 6651410   16587
---
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   12826   12825.9  1.3208 0.2511
Residuals              401 3893940   9710.6

$PC6
Analysis of Variance Table

Response: pc
              Df Sum Sq Mean Sq F value    Pr(>F)
prin.comp$Sample_Group  1   19211   19211.3  2.1695 0.1416
Residuals              401 3550972   8855.3
```

ANOVA results for Sex before batch correction

```
$PC1
Analysis of Variance Table

Response: pc
      Df Sum Sq Mean Sq F value Pr(>F)
prin.comp$sex  1      6021      6021  0.0918 0.7621
Residuals    401 26310481      65612

$PC2
Analysis of Variance Table

Response: pc
      Df Sum Sq Mean Sq F value Pr(>F)
prin.comp$sex  1     10884     10884  0.2728 0.6017
Residuals    401 15997151      39893

$PC3
Analysis of Variance Table

Response: pc
      Df Sum Sq Mean Sq F value Pr(>F)
prin.comp$sex  1     35596     35596  1.9211 0.1665
Residuals    401 7430091      18529

$PC4
Analysis of Variance Table

Response: pc
      Df Sum Sq Mean Sq F value Pr(>F)
prin.comp$sex  1     11256     11256  0.6587 0.4175
Residuals    401 6853174      17090

$PC5
Analysis of Variance Table

Response: pc
      Df Sum Sq Mean Sq F value Pr(>F)
prin.comp$sex  1     20761 20760.8   2.1423 0.1441
Residuals    401 3886005   9690.8

$PC6
Analysis of Variance Table

Response: pc
      Df Sum Sq Mean Sq F value Pr(>F)
prin.comp$sex  1      1818    1818.5   0.2044 0.6515
Residuals    401 3568365    8898.7

$PC7
Analysis of Variance Table

Response: pc
```