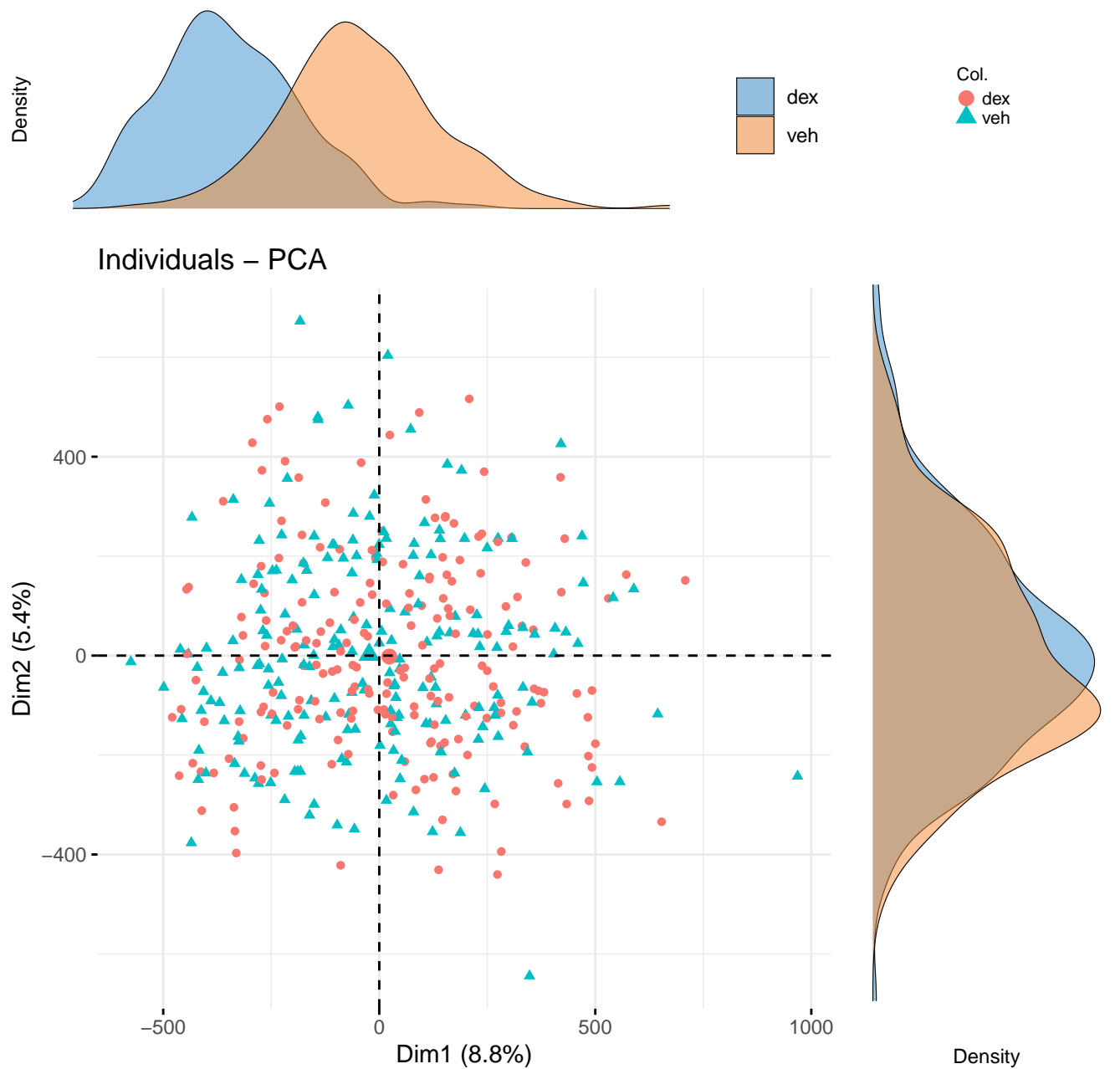


PCA Ind map and density plots before correction by Group (dex/veh)



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	26026.0	2.9885	0.01884 *
Residuals	398	3466079	8708.7		

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

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		