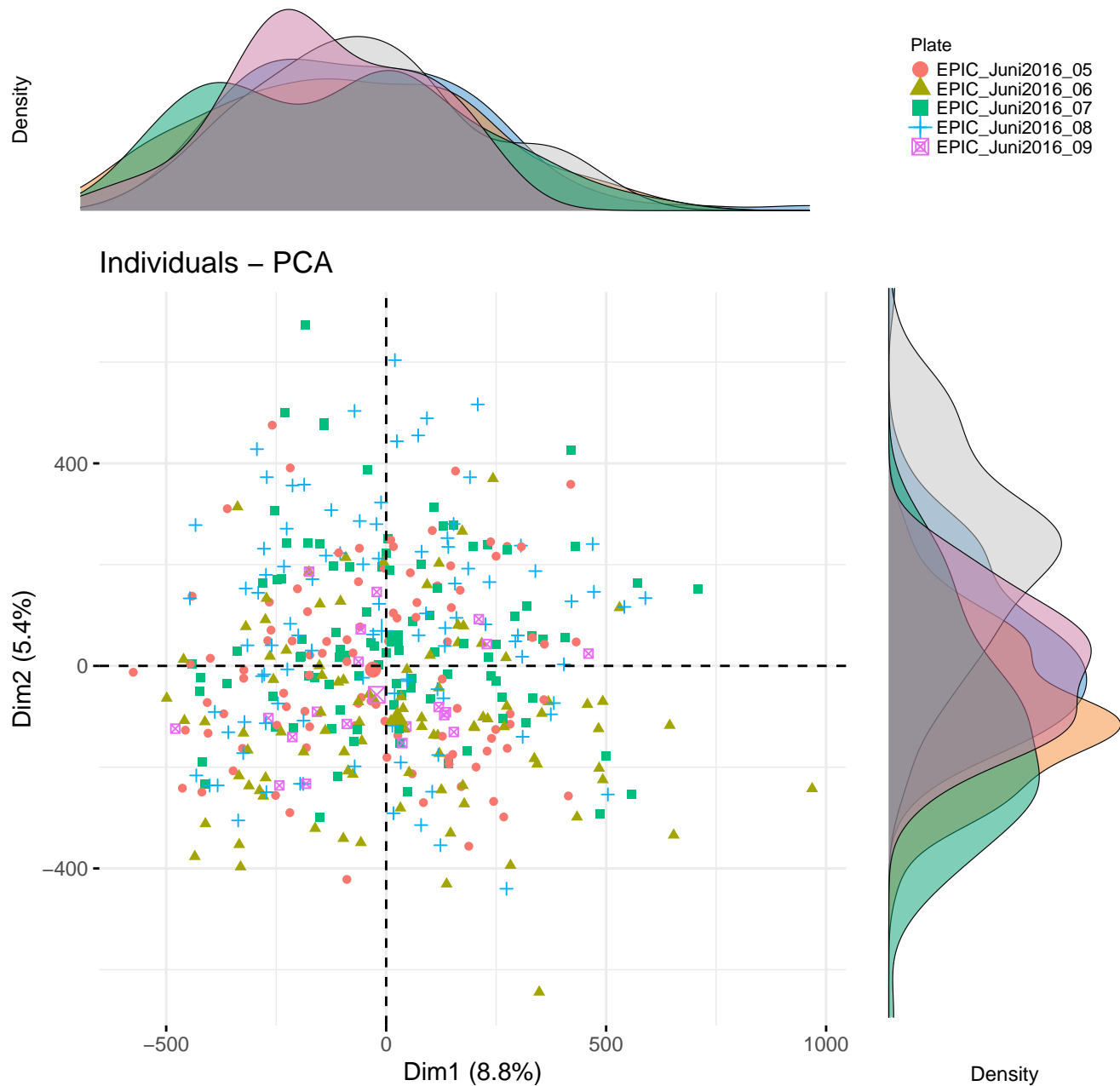
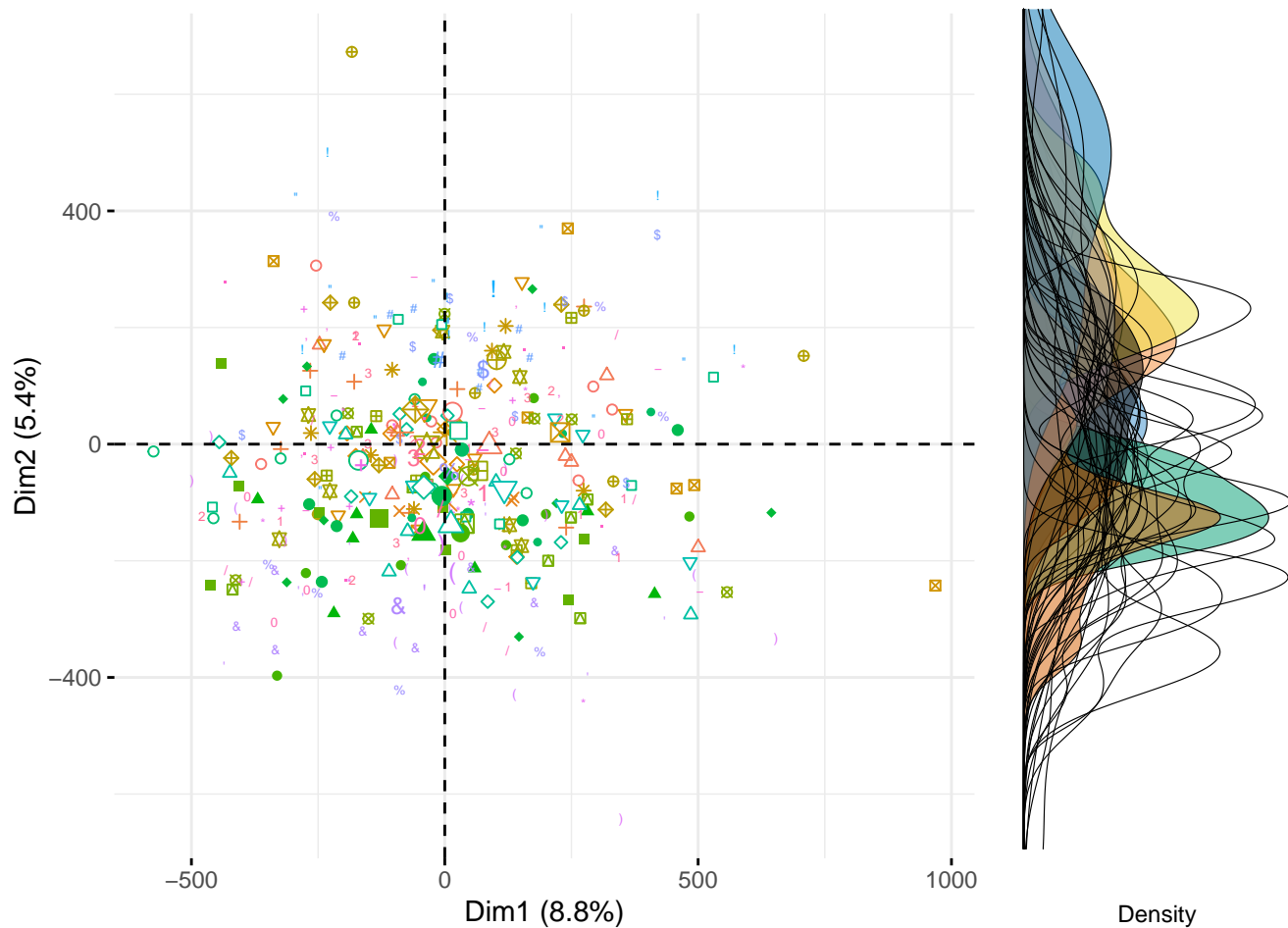


PCA Ind map and density plots before correction by Plate

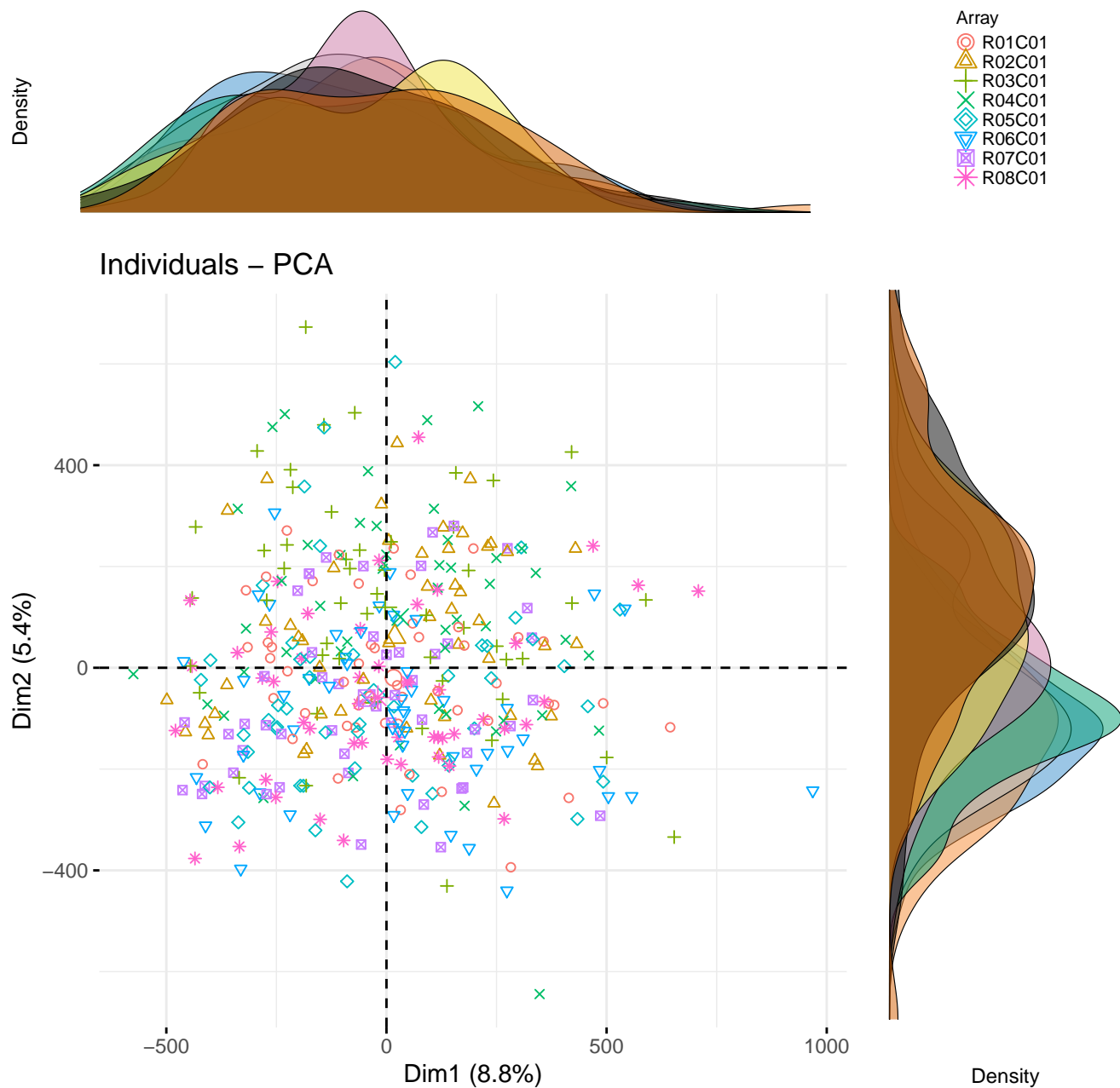


2007053600133	2007053940035	#	2007
2007053600003	200705940043	\$	2007
200705360018	200705940062	%	2007
200705360019	200705940085	&	2007
200705360025	200705940088	'	2007
200705360032	200705940096	(2007
200705360035	200712160002)	2007
200705360036	200712160033	*	2007
200705360049	200712160042	+	2007
200705360050	200712160065	=	2007
200705360079	200712160082	-	2007
200705360087	200712160086	.	2007
200705360106	200712160098	/	2007
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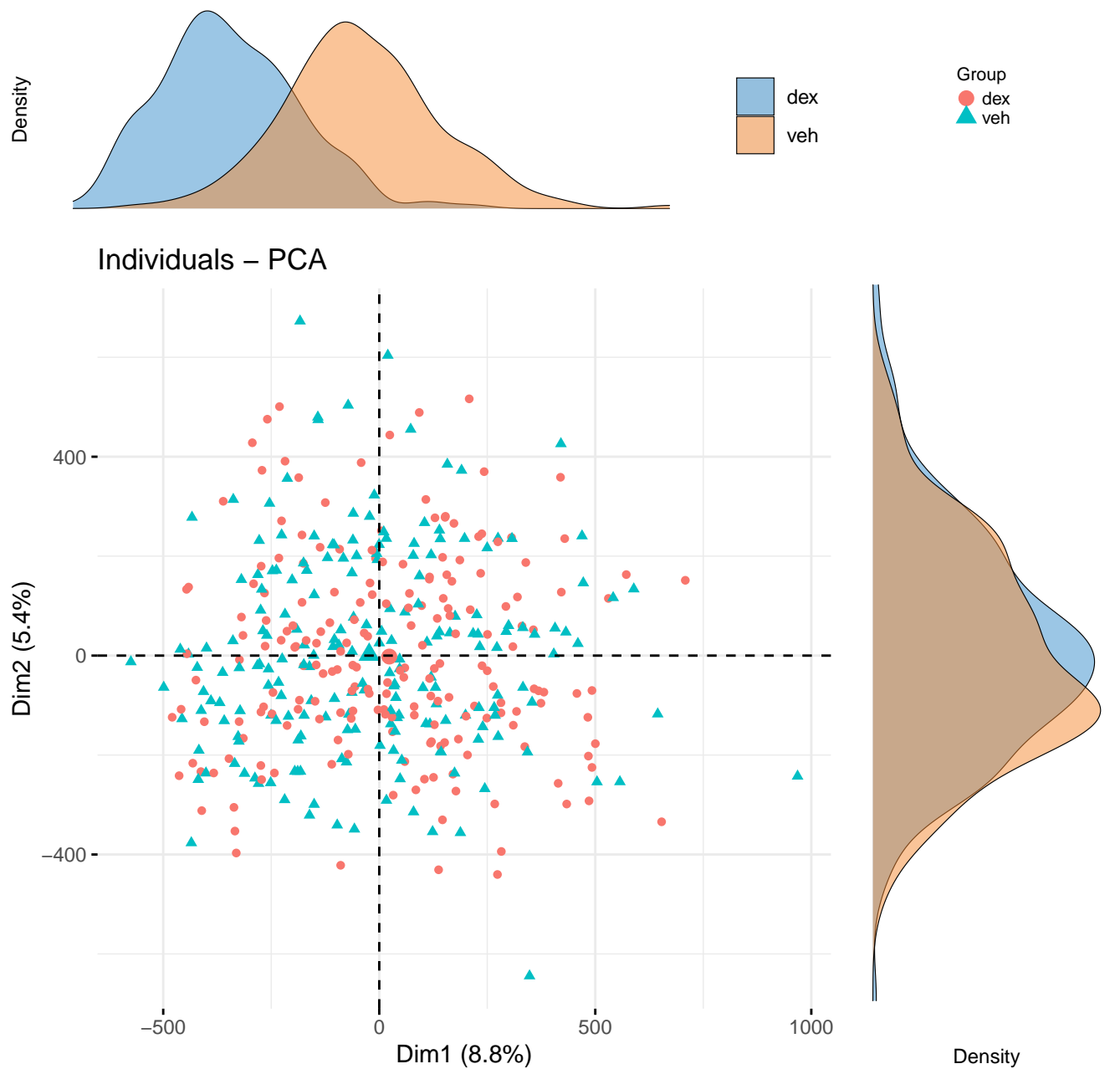
2007053600133	2007053940035	#	2007
2007053600003	200705940043	\$	2007
200705360018	200705940062	%	2007
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200705360025	200705940088	'	2007
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200705360035	200712160002)	2007
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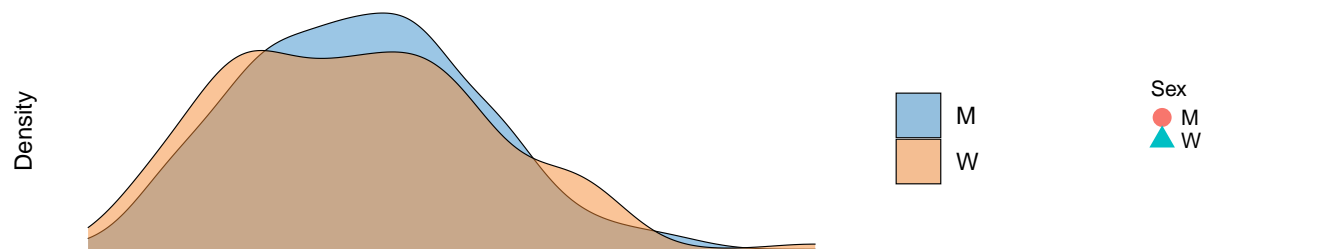
PCA Ind map and density plots before correction by Array



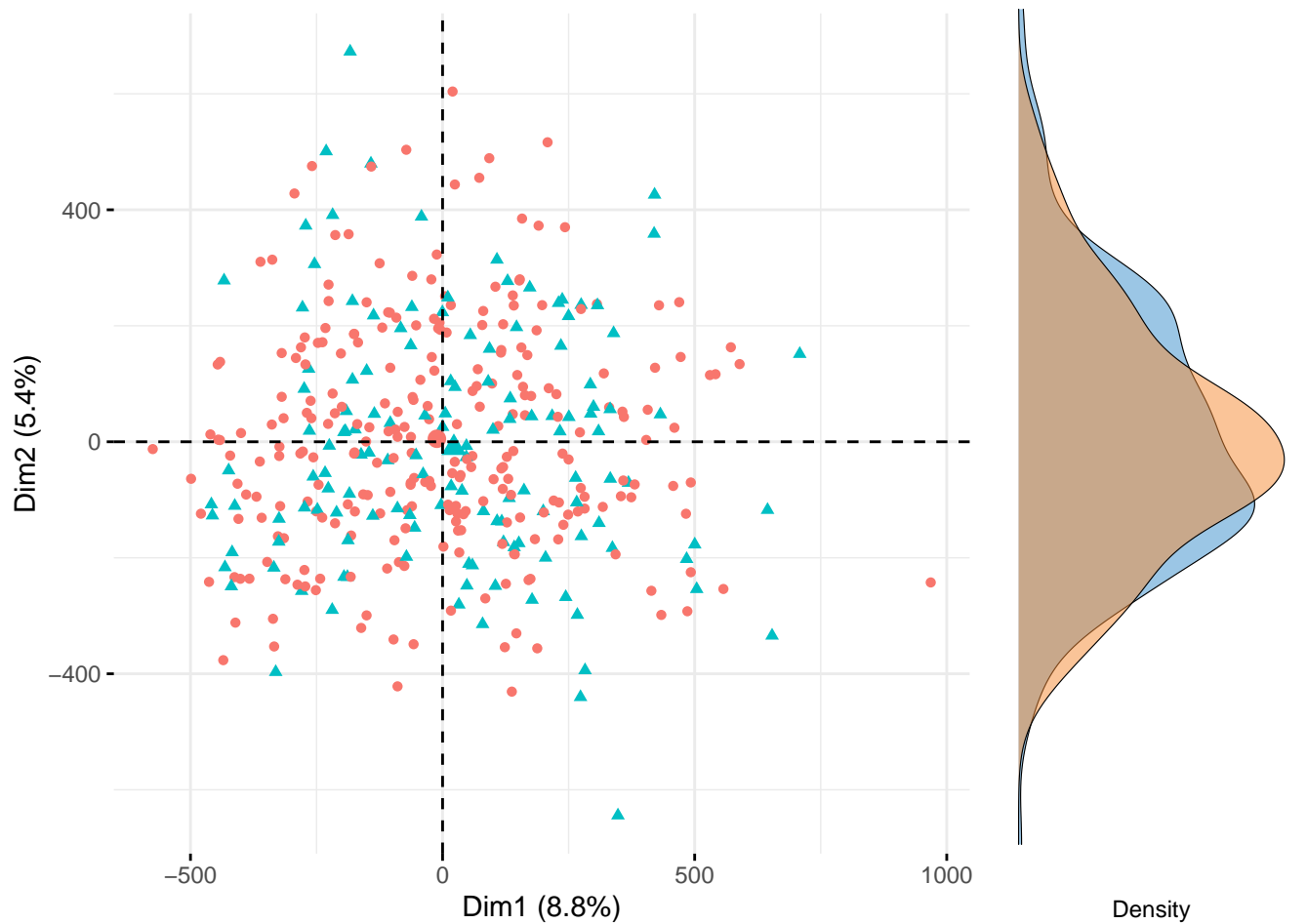
PCA Ind map and density plots before correction by Group (dex/veh)



PCA Ind map and density plots before correction by Sex



Individuals – PCA



Summary table of P-values for PCs before batch correction

	P_Plate	P_Slide	P_Array	P_DEX	P_Sex
PC1.Pr..F.	0.54207	0.94143	0.73818	0.06788	0.21251
PC2.Pr..F.	0.00000	0.00000	0.00000	0.84504	0.46059
PC3.Pr..F.	0.00000	0.00000	0.00001	0.75903	0.91300
PC4.Pr..F.	0.97917	0.00001	0.00147	0.97509	0.17027
PC5.Pr..F.	0.00000	0.00000	0.16026	0.92386	0.10236
PC6.Pr..F.	0.00014	0.00000	0.07470	0.92649	0.26453

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	203341	50835	0.7748	0.5421
Residuals	398	26113161	65611		

\$PC2

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
Prin.comp\$Sample_Plate	4	1844092	461023	12.954	6.327e-10 ***
Residuals	398	14163944	35588		

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	770089	192522	11.444	8.398e-09 ***
Residuals	398	6695598	16823		

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	7546	1886.6	0.1095	0.9792
Residuals	398	6856884	17228.4		

\$PC5

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
Prin.comp\$Sample_Plate	4	452102	113026	13.021	5.647e-10 ***
Residuals	398	3454663	8680		

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	197778	49445	5.8253	0.0001428 ***

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  2366031    47321  0.6955 0.9414
Residuals                                352 23950471    68041

$PC2
Analysis of Variance Table

Response: pc
              Df Sum Sq Mean Sq F value    Pr(>F)
as.factor(as.character(Prin.comp$Slide))  50 7440619   148812  6.1141 < 2.2e-16
Residuals                                352 8567416    24339

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 4799877    95998 12.676 < 2.2e-16
Residuals                                352 2665809     7573

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 1691450    33829  2.3019 6.411e-06
Residuals                                352 5172980    14696

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    286711    40959  0.6215 0.7382
Residuals      395 26029791    65898

$PC2
Analysis of Variance Table

Response: pc
      Df Sum Sq Mean Sq F value    Pr(>F)
Prin.comp$Array 7 2393835    341976  9.922 2.004e-11 ***
Residuals      395 13614200    34466
---
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  631113    90159  5.2107 1.068e-05 ***
Residuals      395 6834573    17303
---
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  391861    55980  3.4163 0.001473 **
Residuals      395 6472569    16386
---
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  102178 14596.8  1.5155 0.1603
Residuals      395 3804588    9631.9

$PC6
Analysis of Variance Table

Response: pc
      Df Sum Sq Mean Sq F value    Pr(>F)
Prin.comp$Array 7  113967 16281.0  1.8607 0.0747
```

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    218130   218130   3.3516 0.06788 .
Residuals              401  26098372   65083
---
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     1527    1527   0.0383  0.845
Residuals              401 16006508   39916

$PC3
Analysis of Variance Table

Response: pc
              Df Sum Sq Mean Sq F value Pr(>F)
Prin.comp$Sample_Group 1     1754   1753.9   0.0942  0.759
Residuals              401  7463933  18613.3

$PC4
Analysis of Variance Table

Response: pc
              Df Sum Sq Mean Sq F value Pr(>F)
Prin.comp$Sample_Group 1       17    16.7   0.001 0.9751
Residuals              401 6864414 17118.2

$PC5
Analysis of Variance Table

Response: pc
              Df Sum Sq Mean Sq F value Pr(>F)
Prin.comp$Sample_Group 1       89    89.1   0.0091 0.9239
Residuals              401 3906676  9742.3

$PC6
Analysis of Variance Table

Response: pc
              Df Sum Sq Mean Sq F value Pr(>F)
Prin.comp$Sample_Group 1       76    75.9   0.0085 0.9265
Residuals              401 3570107  8903.0
```

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	101929	101929	1.5592	0.2125
Residuals	401	26214573	65373		

\$PC2

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
Prin.comp\$sex	1	21748	21748	0.5455	0.4606
Residuals	401	15986288	39866		

\$PC3

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
Prin.comp\$sex	1	223	222.5	0.012	0.913
Residuals	401	7465464	18617.1		

\$PC4

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
Prin.comp\$sex	1	32156	32156	1.8873	0.1703
Residuals	401	6832274	17038		

\$PC5

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
Prin.comp\$sex	1	25943	25943.5	2.6807	0.1024
Residuals	401	3880822	9677.9		

\$PC6

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
Prin.comp\$sex	1	11080	11080.3	1.2484	0.2645
Residuals	401	3559103	8875.6		