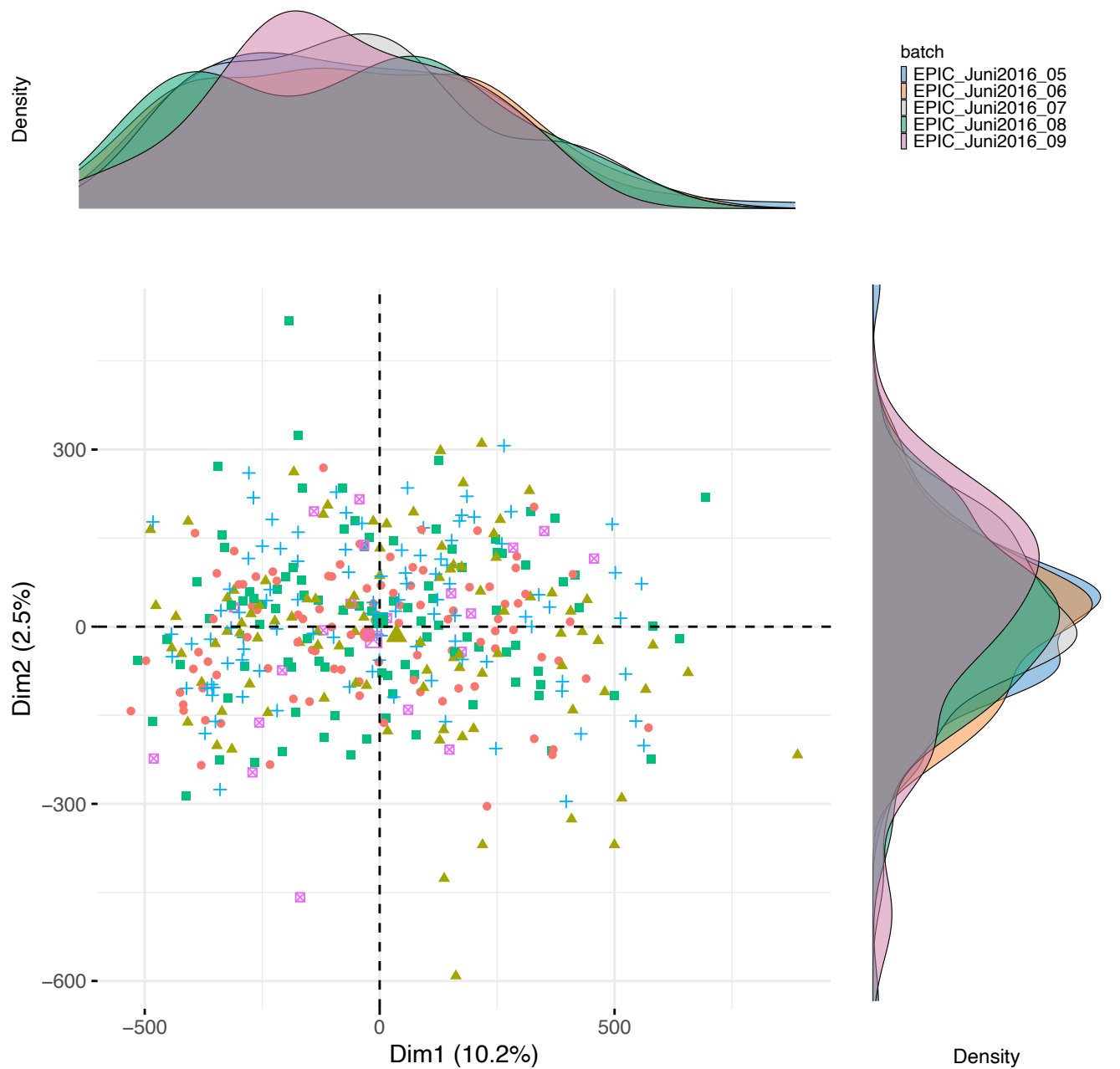
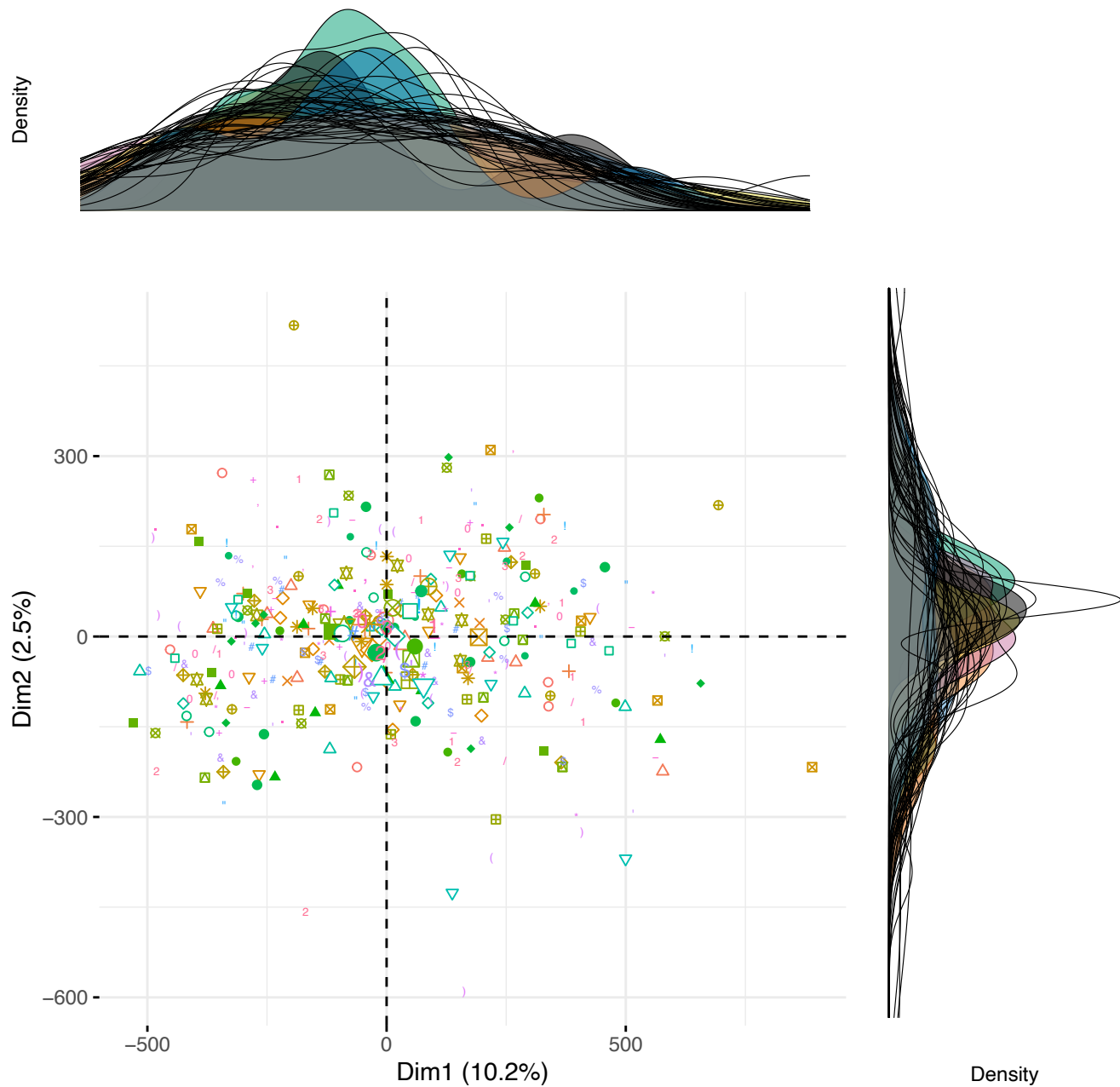


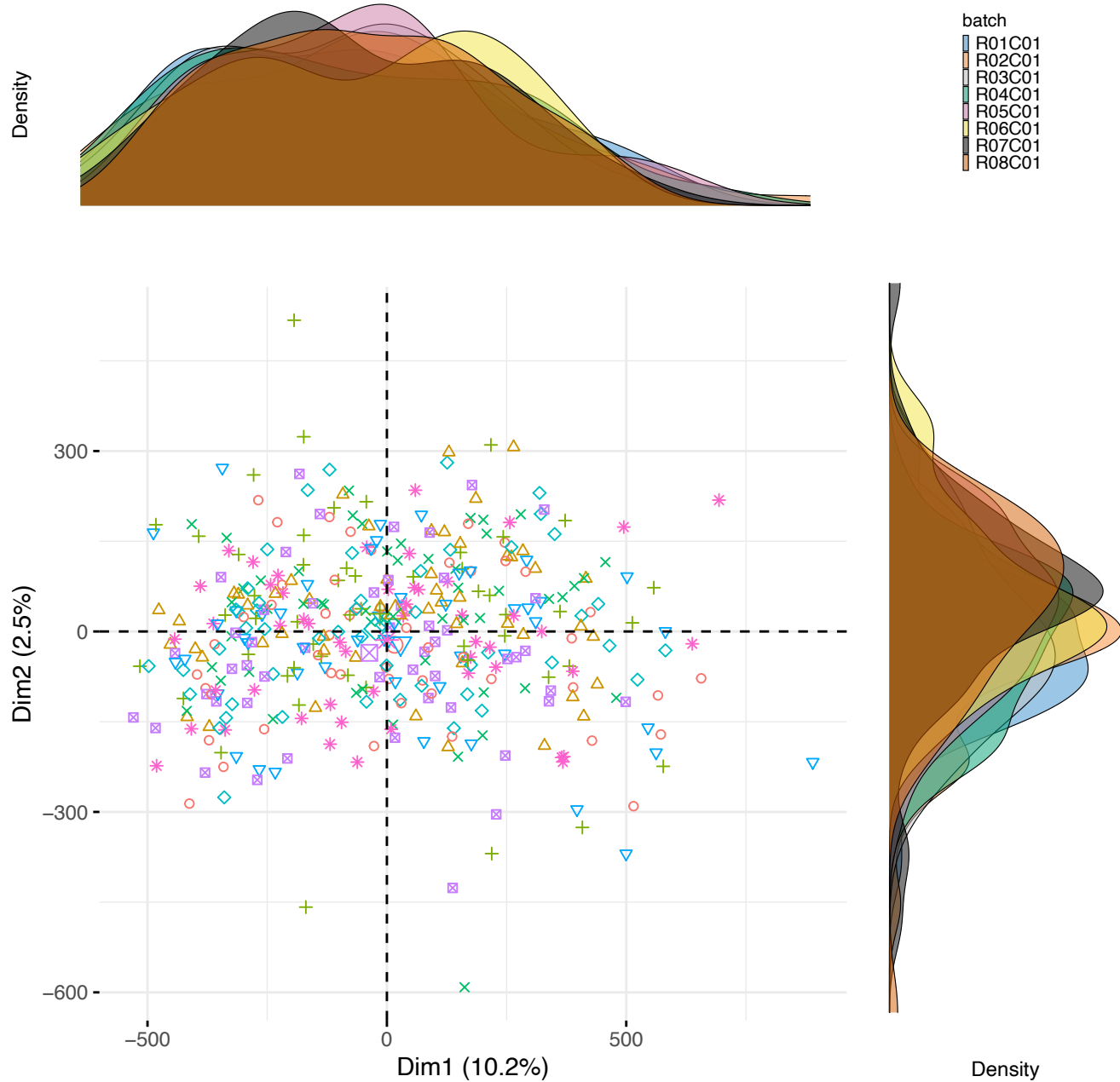
PCA Individual Map and Density Plots byPlate



PCA Individual Map and Density Plots bySlide

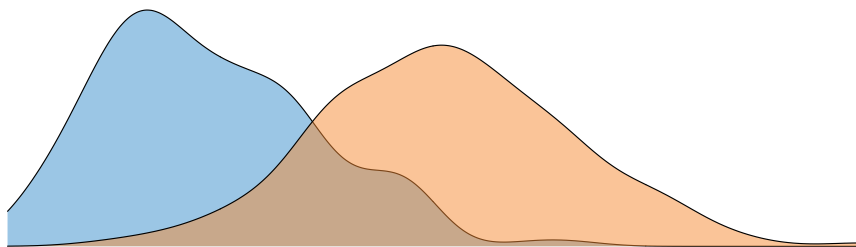


PCA Individual Map and Density Plots byArray



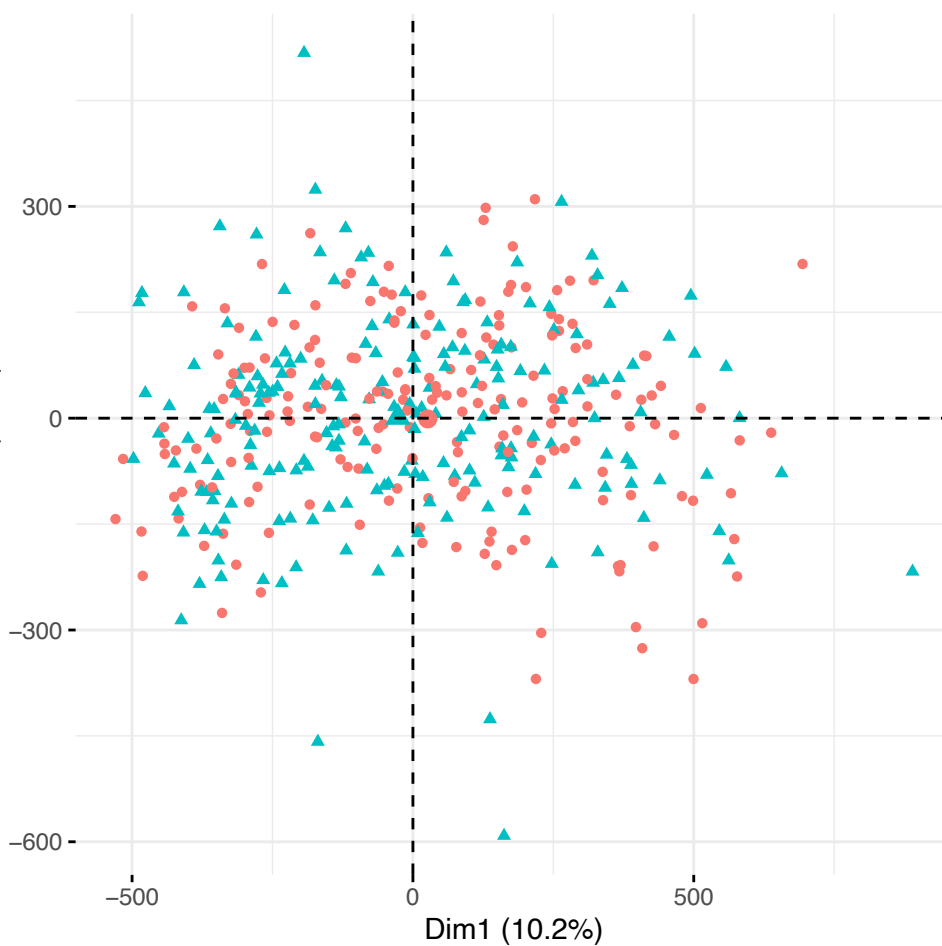
PCA Individual Map and Density Plots byGroup (dex/veh)

Density

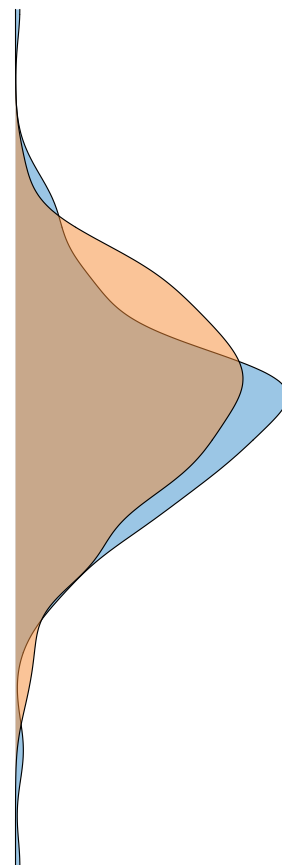


batch  
dex  
veh

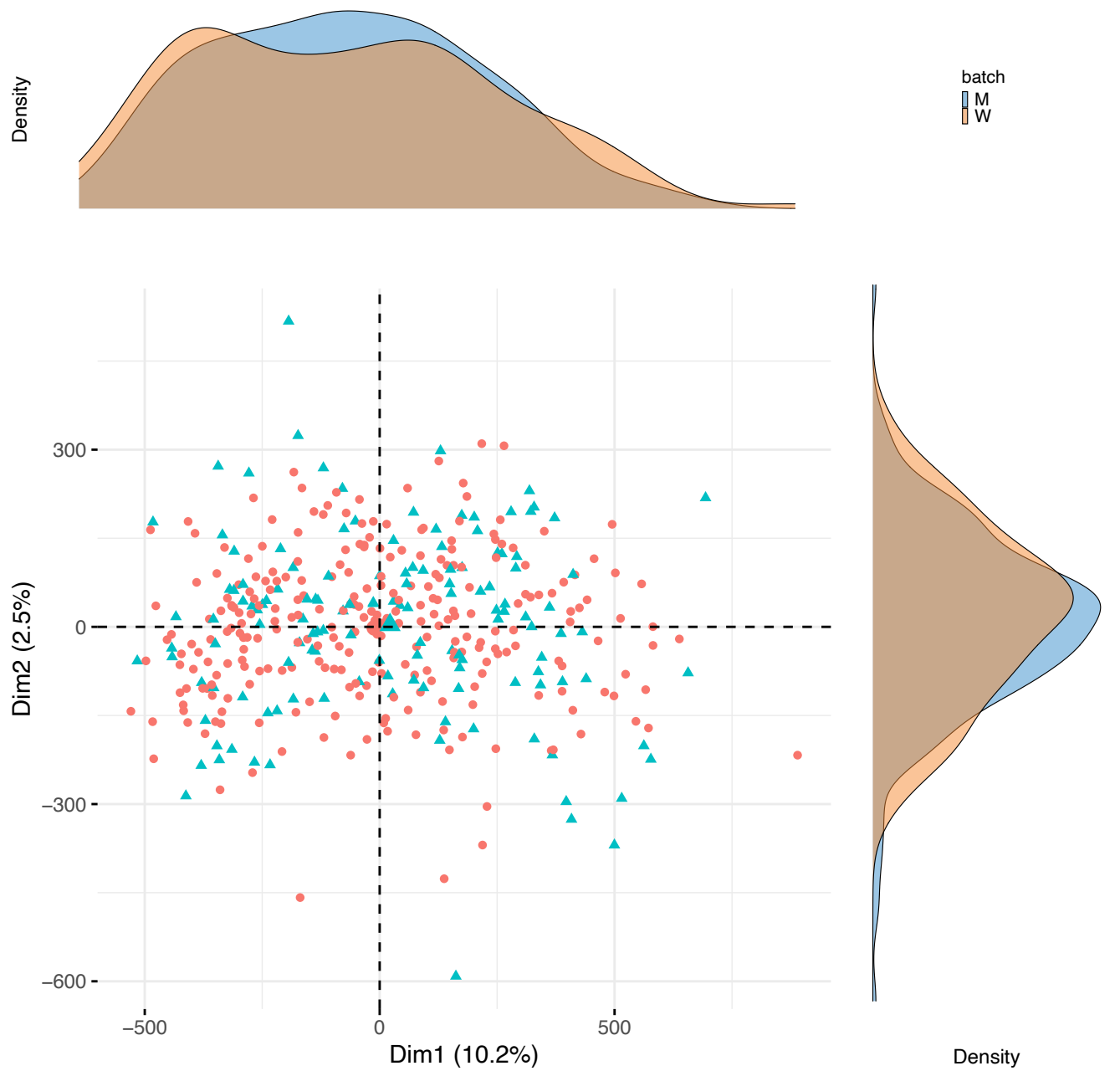
Dim2 (2.5%)



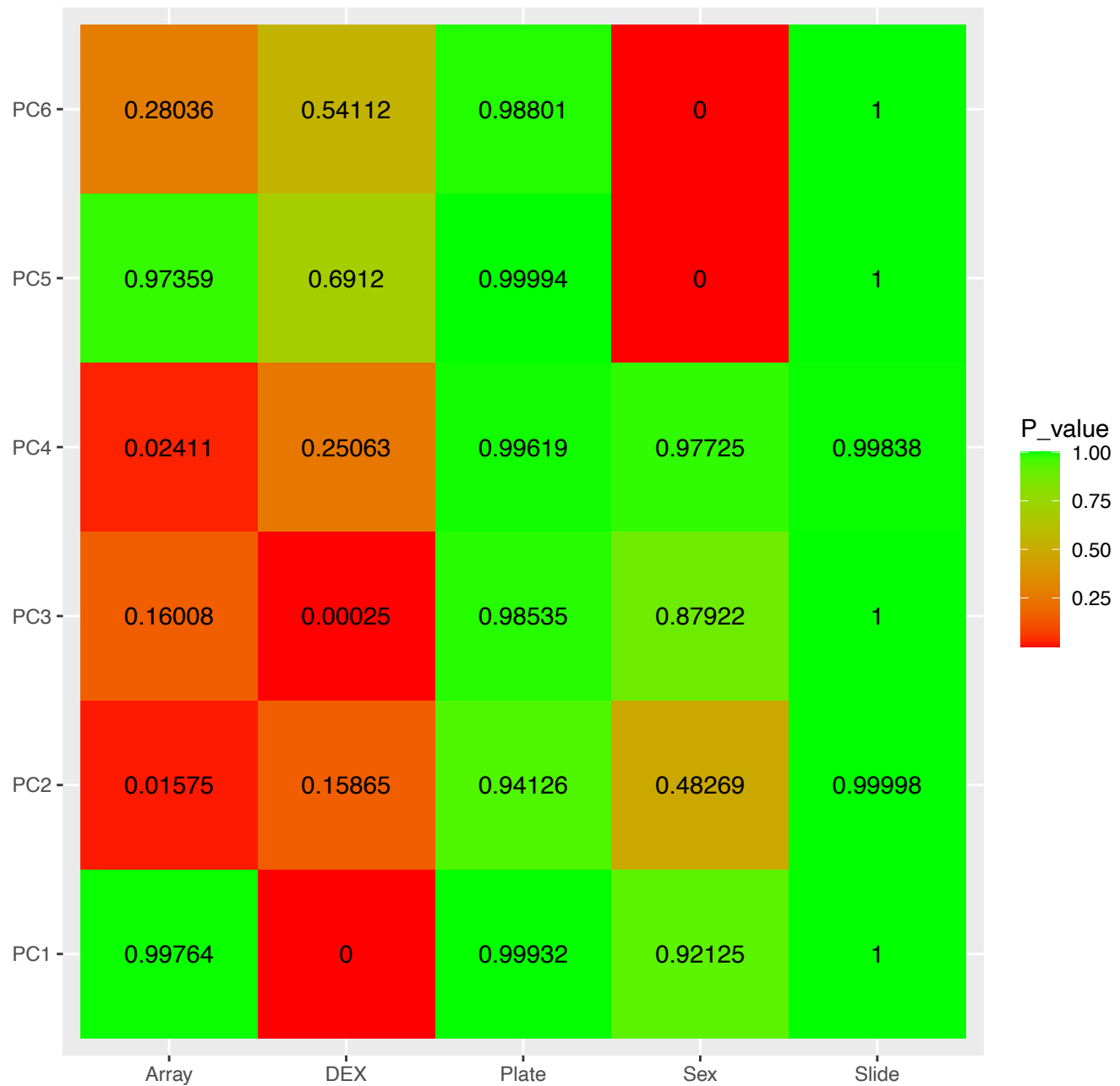
Density



PCA Individual Map and Density Plots bySex



Graphical representation of ANOVA p-values



Summary table of P-values for PCs

	Plate	Slide	Array	DEX	Sex
PC1	0.9993232	1.0000000	0.99763724	3.829981e-65	9.212460e-01
PC2	0.9412618	0.9999814	0.01575053	1.586547e-01	4.826909e-01
PC3	0.9853525	0.9999992	0.16007909	2.477742e-04	8.792224e-01
PC4	0.9961937	0.9983832	0.02411414	2.506286e-01	9.772478e-01
PC5	0.9999384	1.0000000	0.97359020	6.912009e-01	1.228389e-16
PC6	0.9880057	1.0000000	0.28035526	5.411160e-01	7.750014e-11

# 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	5685	1421	0.0186	0.9993	
Residuals	398	30443374	76491			
\$PC2						
Analysis of Variance Table						
Response: pc						
	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
prin.comp\$Sample_Plate	4	14390	3597.4	0.1944	0.9413	
Residuals	398	7364614	18504.1			
\$PC3						
Analysis of Variance Table						
Response: pc						
	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
prin.comp\$Sample_Plate	4	4528	1132	0.0907	0.9854	
Residuals	398	4967513	12481			
\$PC4						
Analysis of Variance Table						
Response: pc						
	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
prin.comp\$Sample_Plate	4	1148	286.9	0.0448	0.9962	
Residuals	398	2546519	6398.3			
\$PC5						
Analysis of Variance Table						
Response: pc						
	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
prin.comp\$Sample_Plate	4	129	32.4	0.0056	0.9999	
Residuals	398	2317575	5823.1			
\$PC6						
Analysis of Variance Table						
Response: pc						
	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
prin.comp\$Sample_Plate	4	1724	431.1	0.0816	0.988	
Residuals	398	2103316	5284.7			



# 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	297169	5943	0.0694	1	
Residuals	352	30151890	85659			

\$PC2  
Analysis of Variance Table

Response: pc						
	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
as.factor(as.character(prin.comp\$Slide))	50	361436	7228.7	0.3626	1	
Residuals	352	7017568	19936.3			

\$PC3  
Analysis of Variance Table

Response: pc						
	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
as.factor(as.character(prin.comp\$Slide))	50	202479	4049.6	0.2989	1	
Residuals	352	4769562	13549.9			

\$PC4  
Analysis of Variance Table

Response: pc						
	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
as.factor(as.character(prin.comp\$Slide))	50	167756	3355.1	0.4962	0.9984	
Residuals	352	2379911	6761.1			

\$PC5  
Analysis of Variance Table

Response: pc						
	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
as.factor(as.character(prin.comp\$Slide))	50	44552	891.0	0.138	1	
Residuals	352	2273152	6457.8			

\$PC6  
Analysis of Variance Table

Response: pc						
	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
as.factor(as.character(prin.comp\$Slide))	50	73253	1465.1	0.2538	1	
Residuals	352	2031788	5772.1			

# ANOVA results for Array

\$PC1

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Array	7	59735	8534	0.1109	0.9976
Residuals	395	30389324	76935		

\$PC2

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Array	7	313693	44813	2.5054	0.01575 *
Residuals	395	7065311	17887		

---

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	130084	18583	1.516	0.1601
Residuals	395	4841957	12258		

\$PC4

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Array	7	101203	14457.5	2.3343	0.02411 *
Residuals	395	2446464	6193.6		

---

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	10022	1431.8	0.2451	0.9736
Residuals	395	2307682	5842.2		

\$PC6

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Array	7	45208	6458.3	1.2385	0.2804
Residuals	395	2059832	5214.8		

# 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	15706828	15706828	427.24	< 2.2e-16 ***
Residuals	401	14742231	36764		

---

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	36519	36519	1.9944	0.1587
Residuals	401	7342485	18310		

\$PC3

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Sample_Group	1	163950	163950	13.674	0.0002478 ***
Residuals	401	4808091	11990		

---

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	8382	8381.7	1.3236	0.2506
Residuals	401	2539285	6332.4		

\$PC5

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Sample_Group	1	913	912.9	0.158	0.6912
Residuals	401	2316791	5777.5		

\$PC6

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$Sample_Group	1	1962	1962.1	0.3741	0.5411
Residuals	401	2103078	5244.6		

# ANOVA results for Sex

\$PC1

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$sex	1	743	743	0.0098	0.9212
Residuals	401	30448316	75931		

\$PC2

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$sex	1	9074	9073.6	0.4937	0.4827
Residuals	401	7369930	18378.9		

\$PC3

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$sex	1	287	286.6	0.0231	0.8792
Residuals	401	4971754	12398.4		

\$PC4

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$sex	1	5	5.2	8e-04	0.9772
Residuals	401	2547662	6353.3		

\$PC5

Analysis of Variance Table

Response: pc

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
prin.comp\$sex	1	364669	364669	74.874	< 2.2e-16 ***
Residuals	401	1953035	4870		

---  
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\$sex	1	211083	211083	44.692	7.75e-11 ***
Residuals	401	1893957	4723		

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