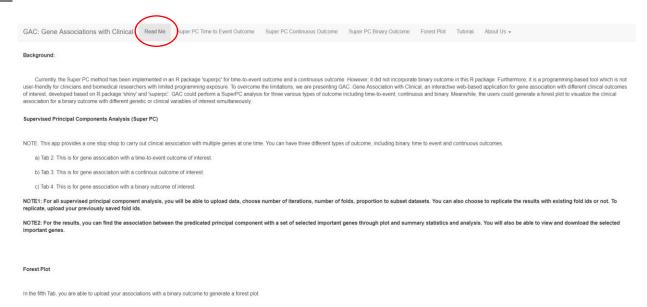
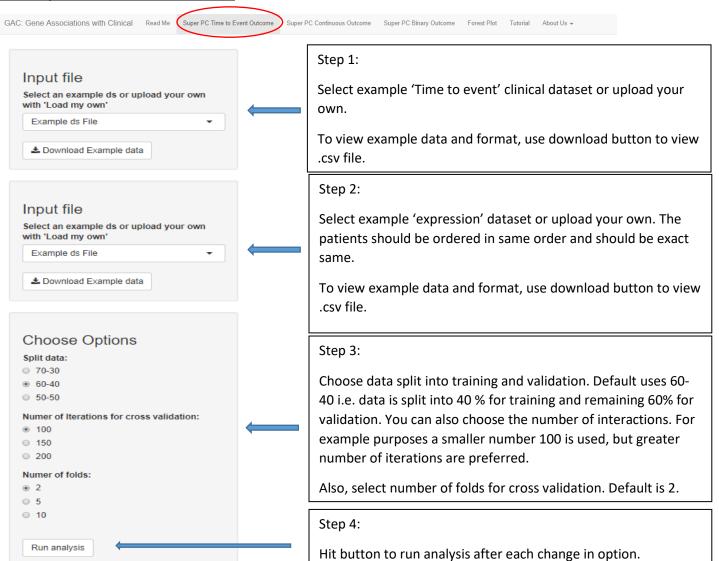
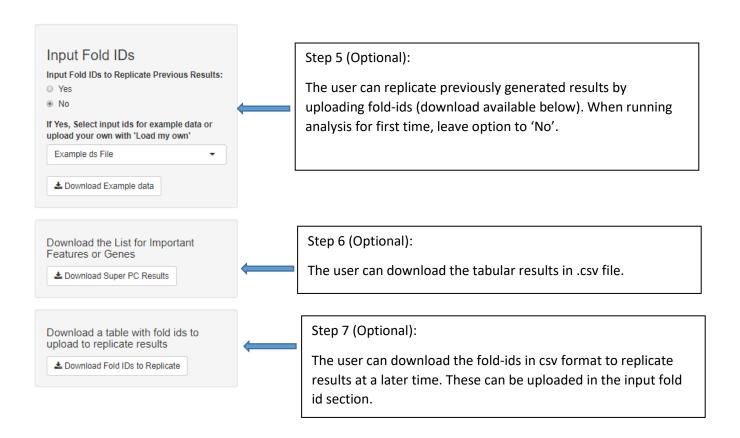
GAC Tutorial

Tab 1: Read Me



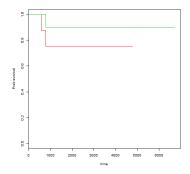
Tab 2: Super PC Time to Event Outcome





Association between Continuous Predicted Principal Component with Time to Event Outcome

KM Plot for Discrete Predicted Principal Component (Cut by Median)



Main panel shows the results from the super PC analysis.

The p-value from 1st supervised PC is reported.

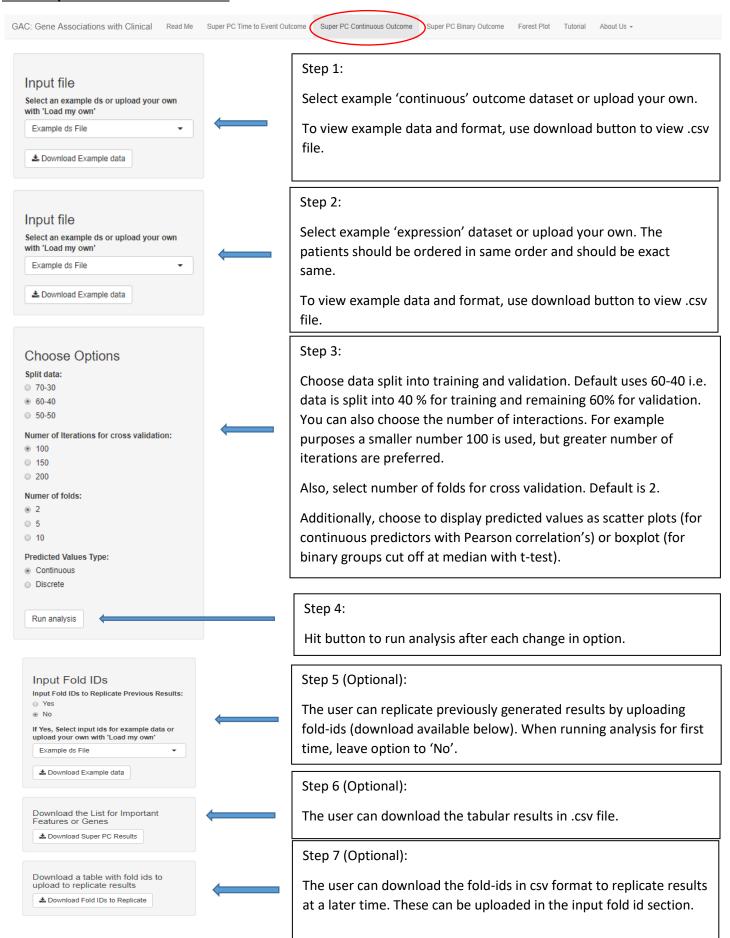
A discrete (categorical) predictor is created by cutting the predictor at its median to form two groups for the Kaplan-Meier analysis.

Important Features Selected

Show 10 ▼ entries			Search:
Importance-score	Raw-score	Name	0
184.147	1.468	MUC6.4588	
142.24	1.33	WNK4.65266	
127.807	1.722	ZNF385B.151126	
126.463	1.638	ELOVL2.54898	
116.823	1.487	FLT3.2322	
112.227	1.497	SORCS1.114815	
105.482	1.406	KCNH1.3756	
72.727	1.341	KRT32.3882	
71.761	1.26	CYP21A2.1589	
66.777	1.343	DOC2B.8447	
Showing 1 to 10 of 14 entries			Previous 1 2 Next

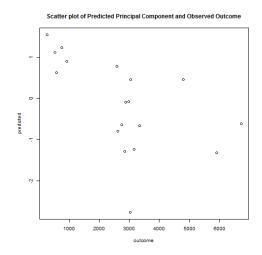
List of all significant genes, in order of decreasing importance score are reported

Tab 3: Super PC Continuous Outcome



The p-value for the first Principal component is = 0.0651810699008778.

Plot and Tests for Predicted Principal Component



Pearson's product-moment correlation

data: outcome and predicted

t = -2.7285, df = 16, p-value = 0.01488

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:
 -0.8157644 -0.1311425

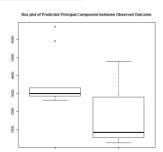
sample estimates:
 cor
 -0.5635107

Main panel shows the results from the super PC analysis.

The p-value from 1st supervised PC is reported.

Scatter plot showing correlation of continuous predictor with outcome using Pearson correlation is reported. Discrete predictors are created by cutting the predictor at its median to form two groups and reported as boxplots.

Predicted Values Type: Continuous Discrete



```
Welch Two Sample t-test

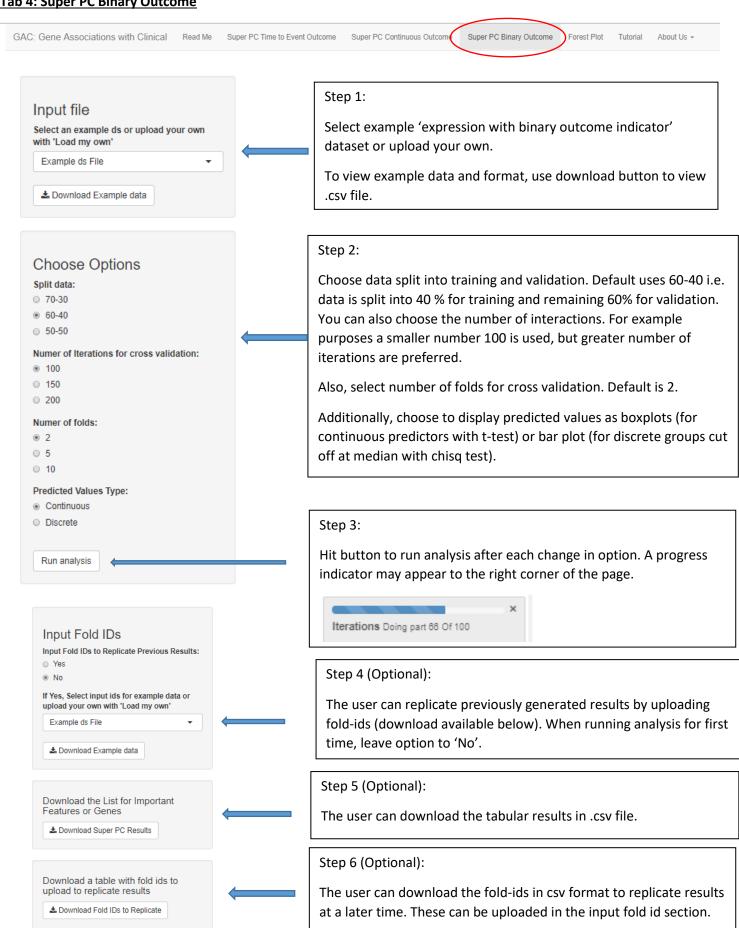
data: datSoutcome by datSpred.discrete
t = 2.6516, df = 14.269, p-value = 0.01873
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
373.9631 3510.3369
sample estimates:
mean in group 1 mean in group 2
3620.90 1678.75
```

Important Features Selected

Show 10 ▼ entries			Search:
Importance-score	Raw-score	Name Name Name	¢
-87.439	-0.707	UGT2B11.10720	
-41.829	0.699	PYDC1.260434	
-41.136	-0.863	UGT2B28.54490	
39.097	1.244	XK.7504	
-38.889	-0.757	FCN2.2220	
38.537	0.761	TGFA.7039	
38.37	0.835	DPYSL5.56896	
38.306	1.112	GALNT3.2591	
36.781	0.759	CENPI.2491	
-35.215	-0.634	FGD3.89846	
Showing 1 to 10 of 59 entries		Previous 1	2 3 4 5 6 Next

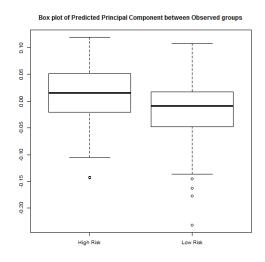
List of all significant genes, in order of decreasing importance score are reported

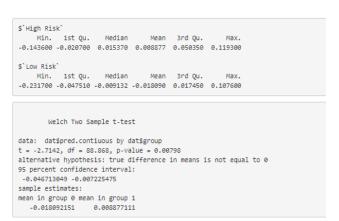
Tab 4: Super PC Binary Outcome

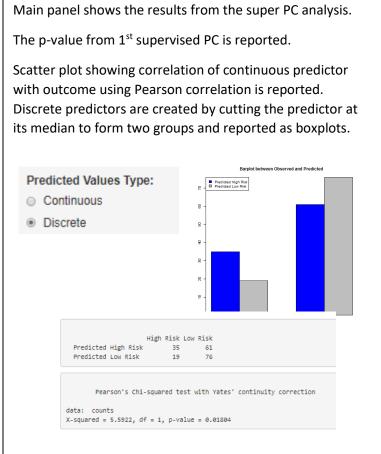


The p-value for the most significant Principal component is = 0.00842540637079967 .

Plots and Statistical Results for Predicted Principal Component between Observed Outcome





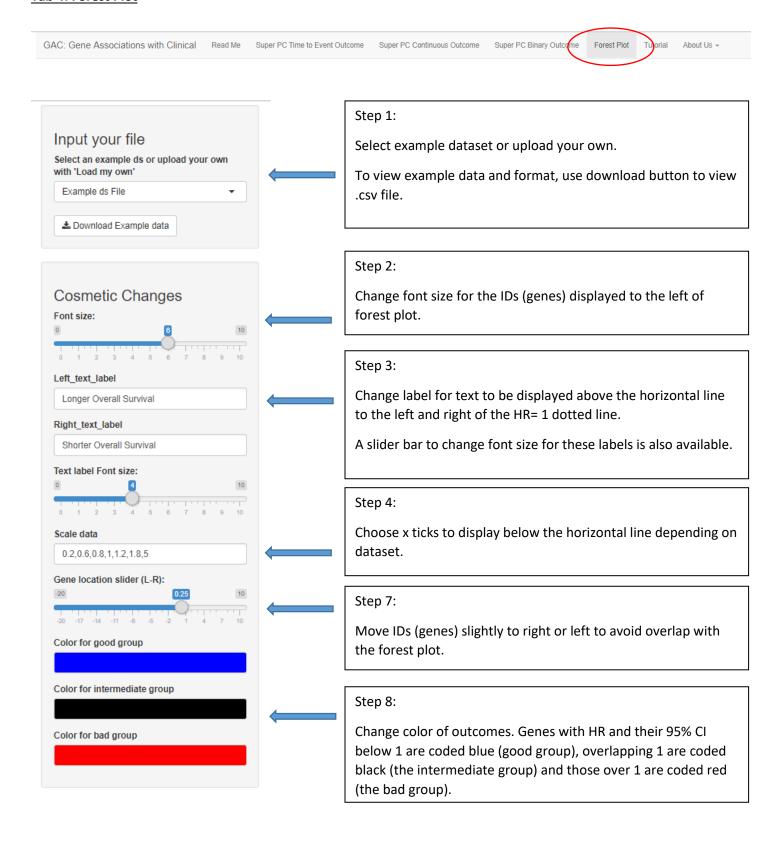


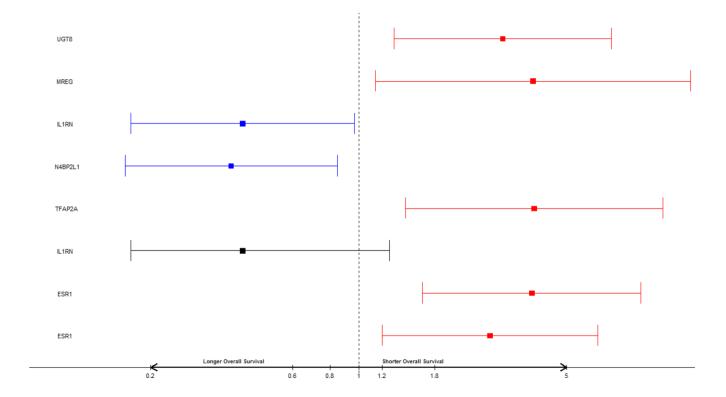
Univariate logistic regresssion of genes associated with outcome to generate Principal components

Show 10 ▼ entries				Search:
	OR \$	2.5 %	97.5 % ‡	pvalue
ENSG00000096696.DSP	1.2505780033958	1.15880158939608	1.35281356341689	1.38836356732951e-8
ENSG00000130147.SH3BP4	1.27718657682466	1.18688973928384	1.37803855240189	1.20615321358095e-10
ENSG00000130222.GADD45G	1.25045636571003	1.153500006982	1.35909338390243	8.65071804767013e-8
ENSG00000143195.ILDR2	1.19012024251199	1.10340557930938	1.28600390888205	0.00000805960105056681
ENSG00000174469.CNTNAP2	1.24203927708356	1.15187755327772	1.34348450819117	3.07357742186898e-8
Showing 1 to 5 of 5 entries				Previous 1 Next

List of all significant genes, in order of decreasing importance score are reported

Tab 4: Forest Plot





Reporting results from super PC analysis through forest plot. Genes with HR < 1 are coded in blue, those overlapping 1 are coded black and those greater than 1 are coded red.