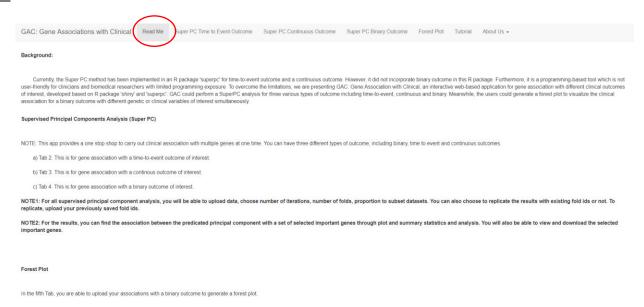
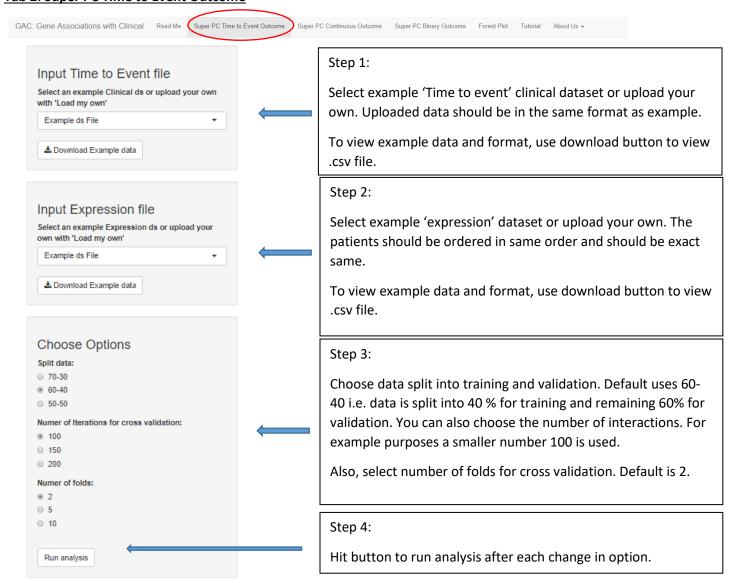
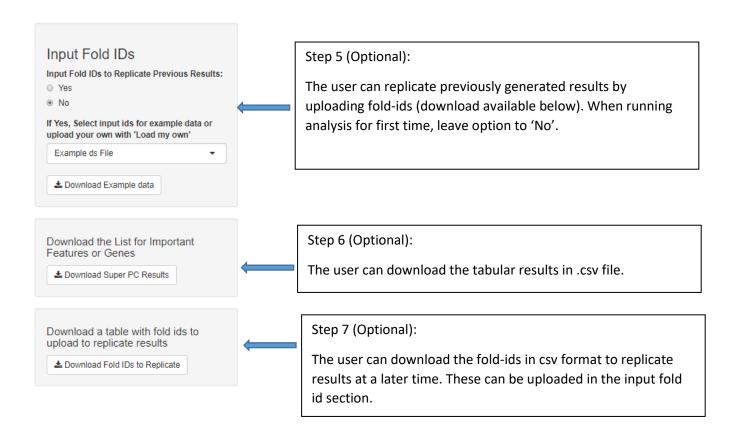
GAC Tutorial

Tab 1: Read Me



Tab 2: Super PC Time to Event Outcome

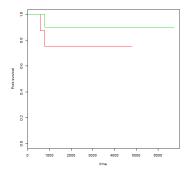




Association between Continuous Predicted Principal Component with Time to Event Outcome

The o-value for the first Principal component is * 0.215364005988728.

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.

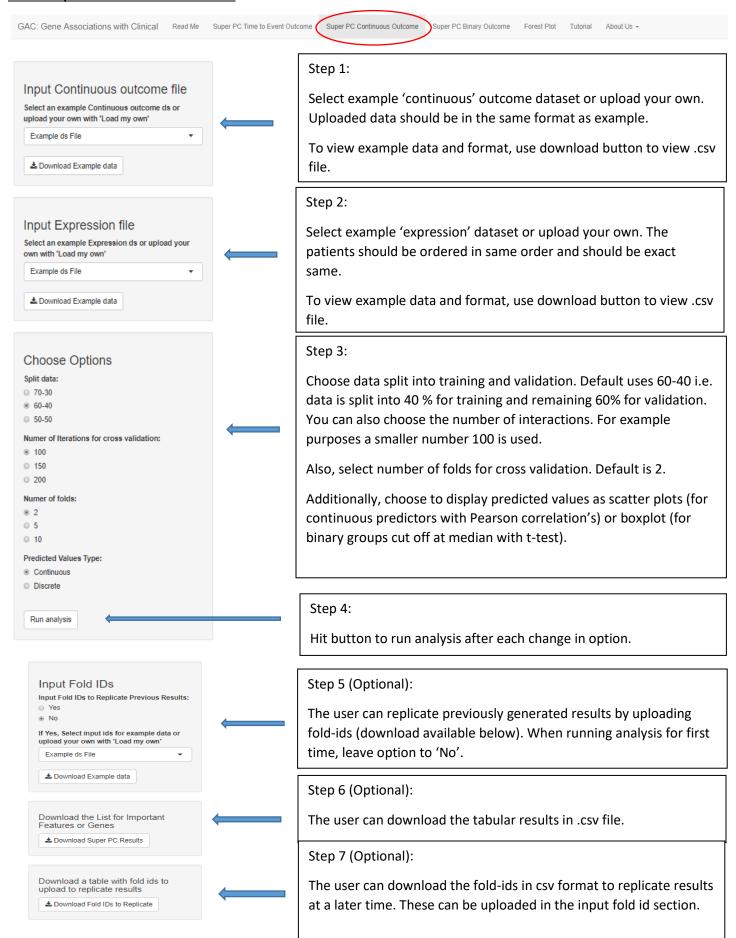
A discrete (categorical) predictor is created by cutting the predictor at its median to form two groups for the Kaplan-Meier analysis.

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

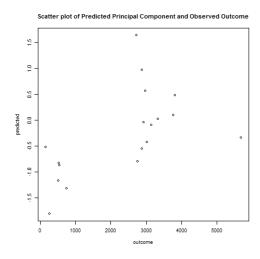
List of all significant genes, in order of decreasing importance score are reported

Tab 3: Super PC Continuous Outcome



The p-value for the first Principal component is = 0.009.

Plot and Tests for Predicted Principal Component



Test statistic df P value Alternative hypothesis cor

2.75 16 0.01422 * two.sided 0.5666

Table: Pearson's product-moment correlation: 'outcome' and 'predicted'

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.

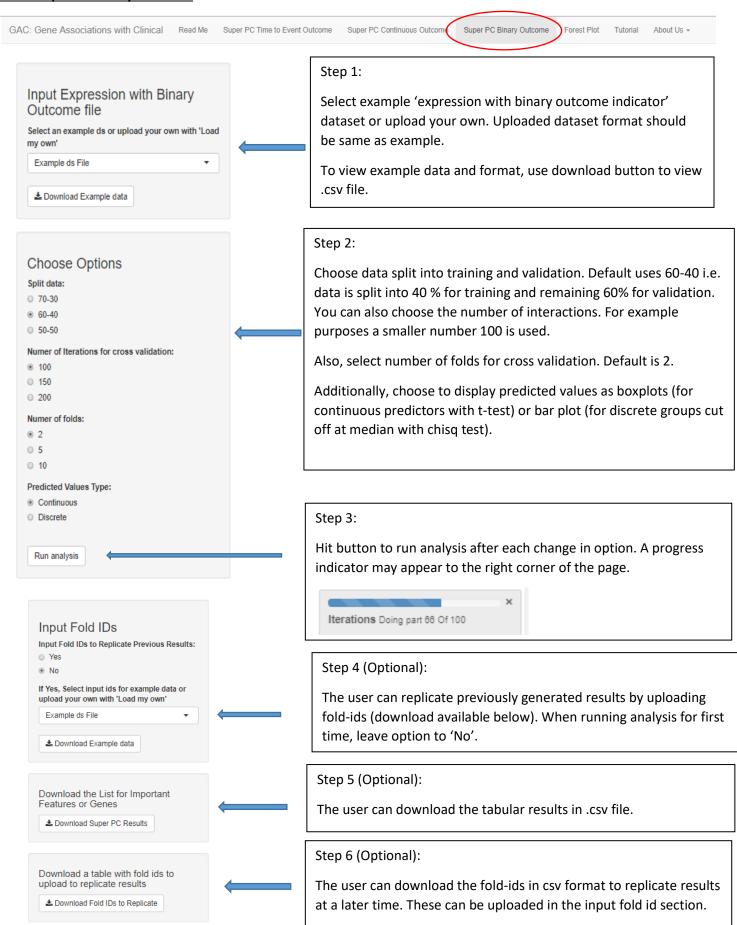
Predicted Values Type: Continuous Discrete Box plot of Predicted Principal Component between Observed Outcome Test statistic df P value Alternative hypothesis -4.331 14.8 8.0886114 *** two sided Table: Welch Two Sample t-test: 'datSoutcome' by 'datSpred.discrete' (continued below) mean in group 1 mean in group 2 1279 3472

Important Features Selected

Show 10 v entries			Search:
Importance-score	Raw-score	Name	0
97.196	0.623	CYP4F8.11283	
76.61	0.591	NXPH1.30010	
69.261	0.773	AFP:174	
63.632	0.703	VSIG2.23584	
63.19	0.67	TNFRSF13B.23495	
61.456	1.131	NNAT.4826	
59.825	0.579	LOC389033.389033	
55.884	0.726	GPAT2.150763	
55.516	0.884	TNN.63923	
55.036	1.183	DNASE1L3.1776	
Showing 1 to 10 of 75 entries		Previous 1	2 3 4 5 8 Next

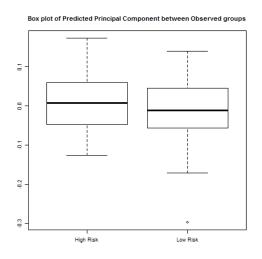
List of all significant genes, in order of decreasing importance score are reported

Tab 4: Super PC Binary Outcome



The p-value for the most significant Principal component is = 0.013.

Plots and Statistical Results for Predicted Principal Component between Observed Outcome





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.

Barptot between Observed and Predicted

Predicted Values Type:

Continuous

Discrete

Discrete

Arbsop;
High Risk Low Risk

Predicted Value Nisk*

Predicted Value Nisk*

23 65

Predicted Value Nisk*

21 74

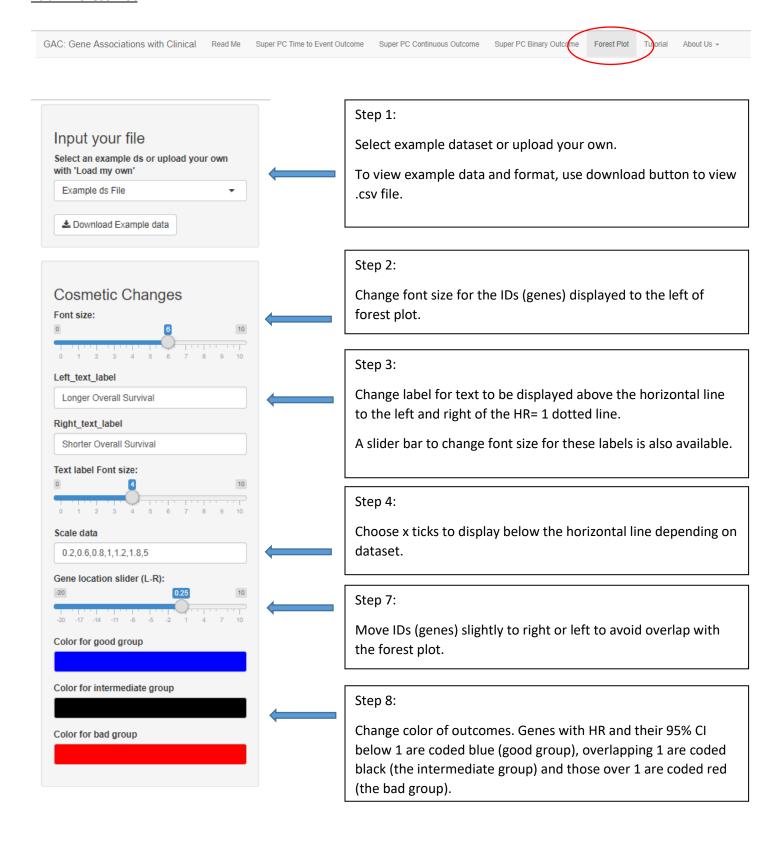
Test statistic of P value

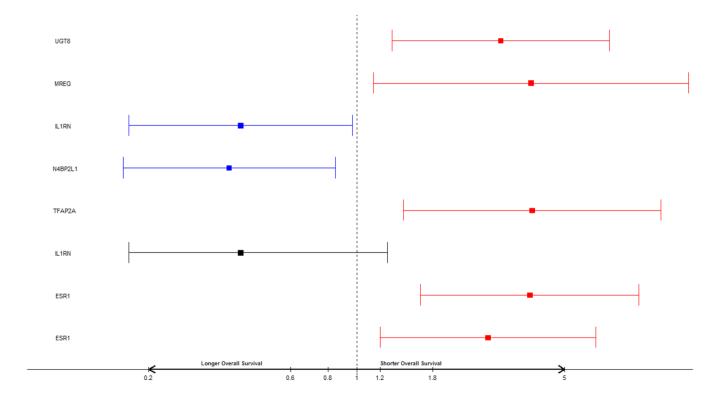
22 25 25 1 0 156



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.