Step-by-step Guide to Perform Consensus Clustering using FlexStatv1 Pipeline

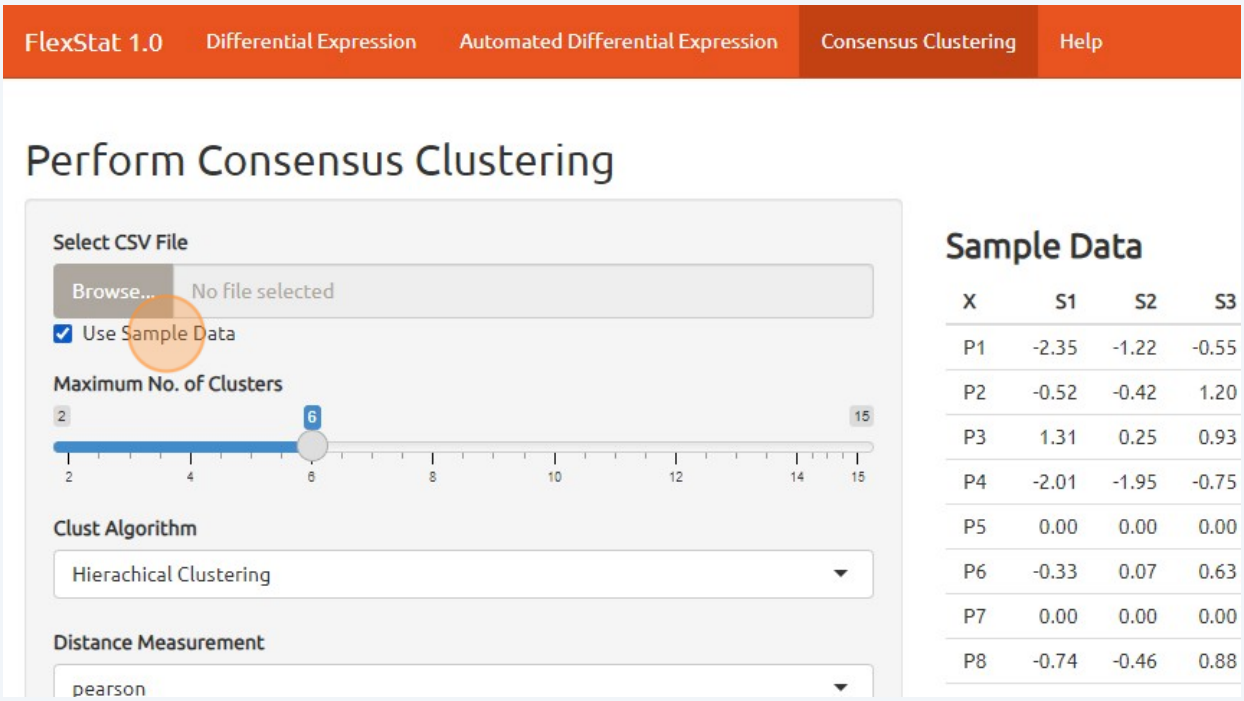
Scribe

This feature enables consensus clustering of a expression profile by customizing the clustering algorithm, distance measurements, and linkages

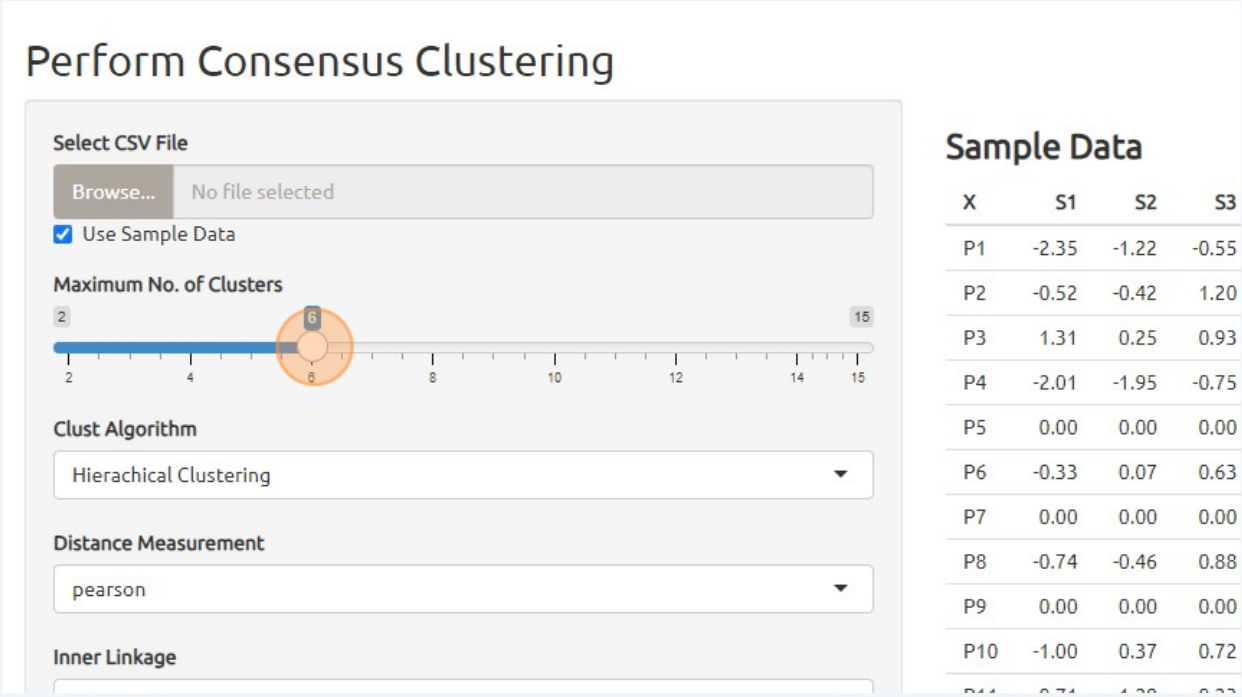
1 Navigate to https://jglab.shinyapps.io/flexstatv1-pipeline-only/

2 Go to "Consensus Clustering" tab.

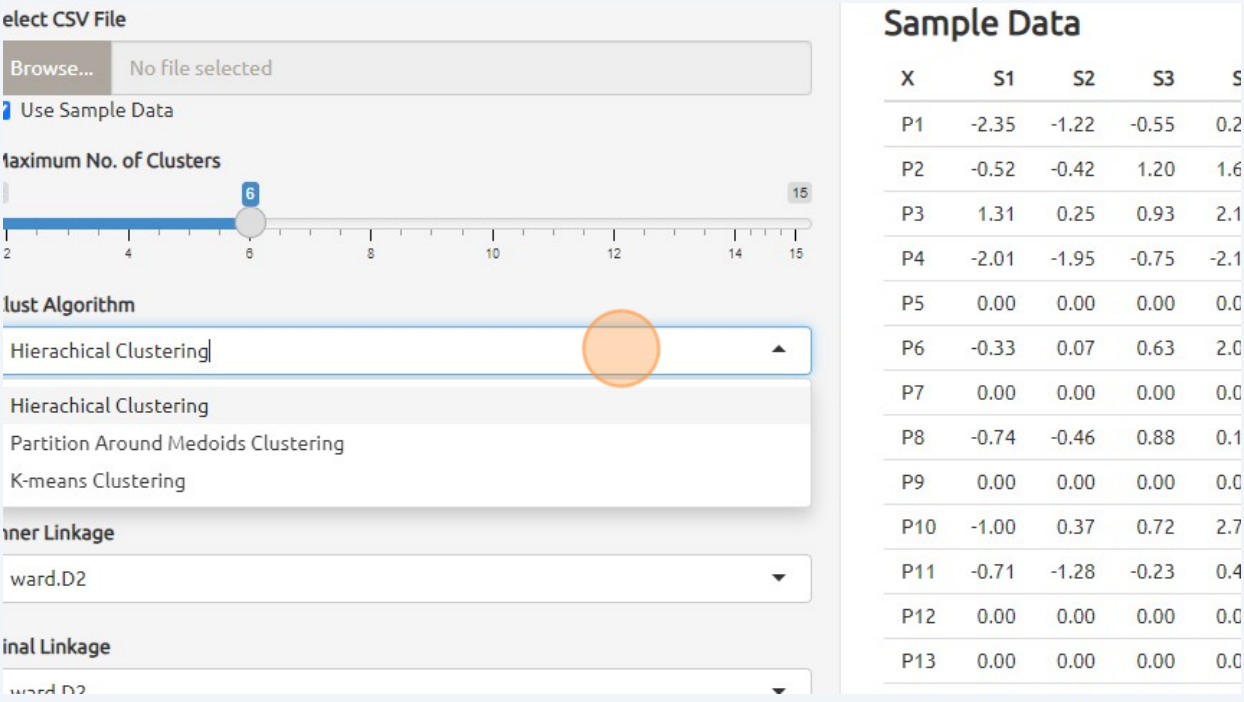
3 Click "Use Sample Data"



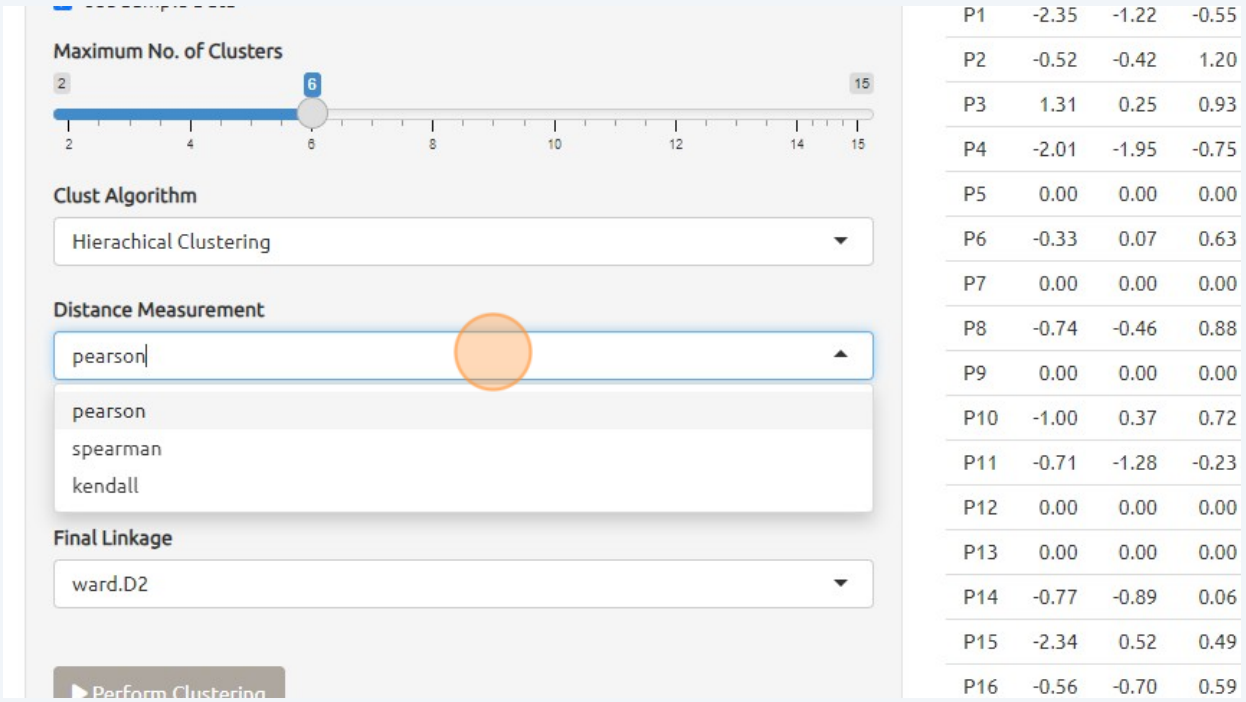
4 Select maximum number of clusters to generate the consensus clustering matrix.



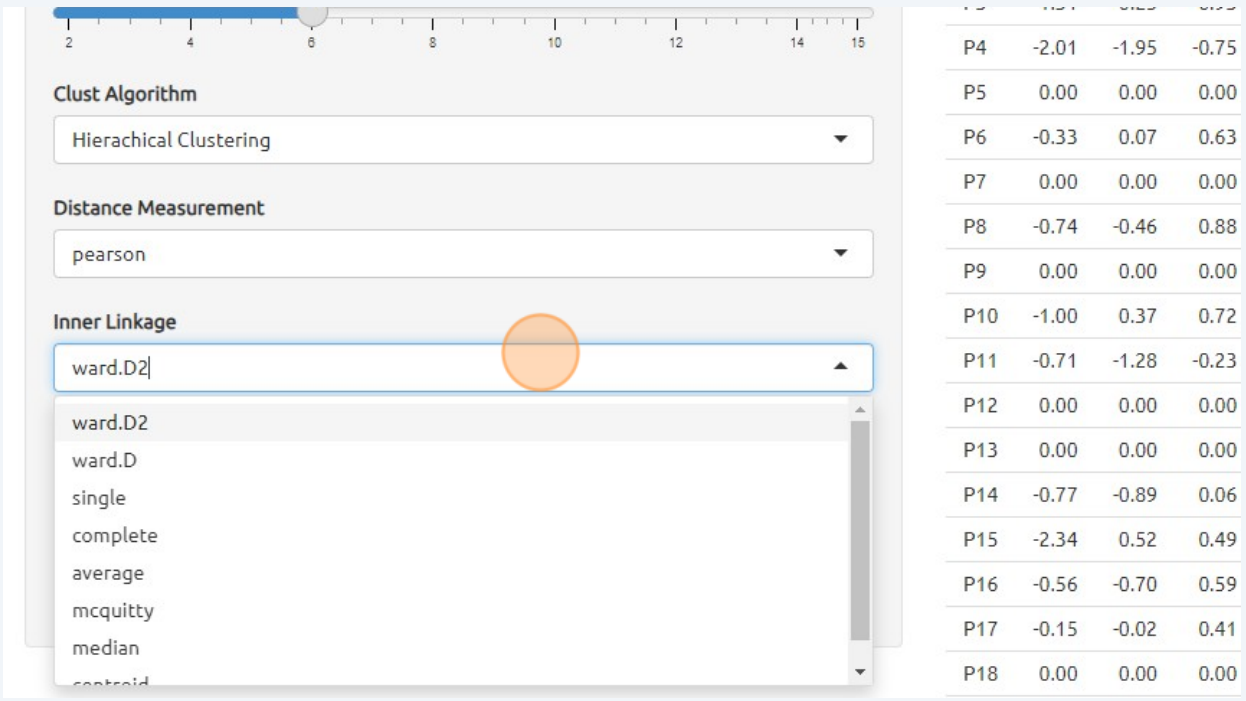
5 Select clustering algorithm.



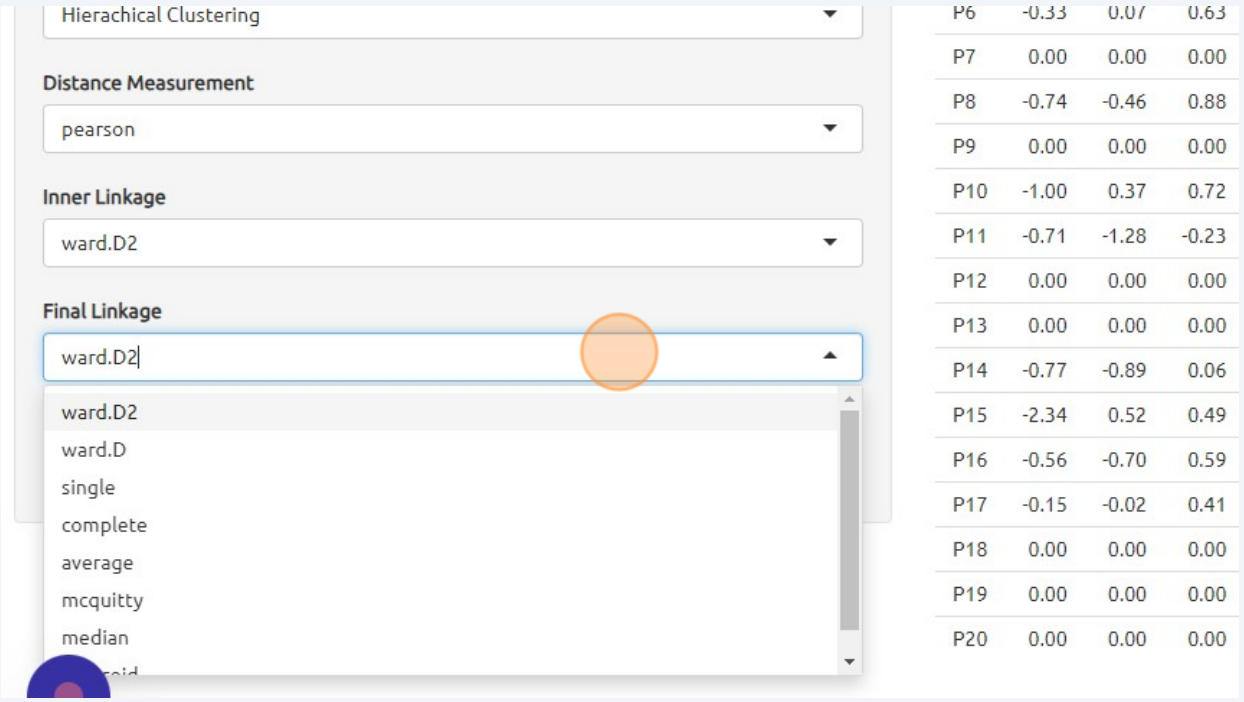
6 Select distance measurement to define clusters.



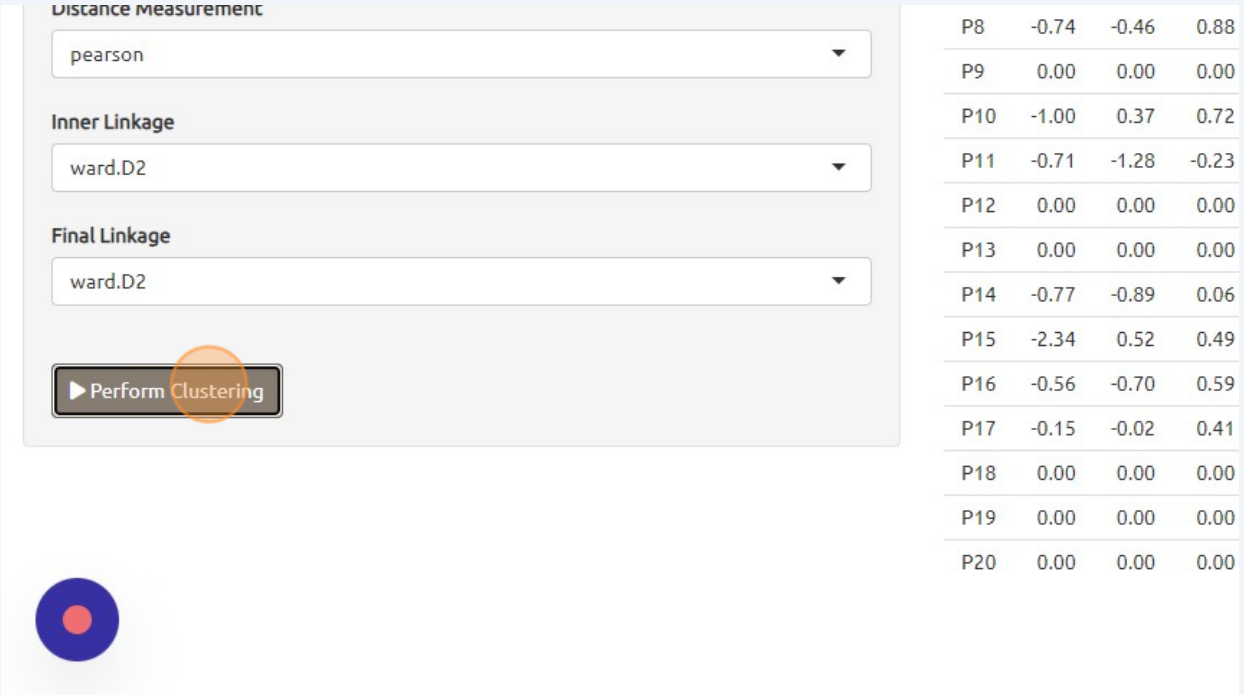
7 Select distance measurement to be used in iterative agglomerative clustering.



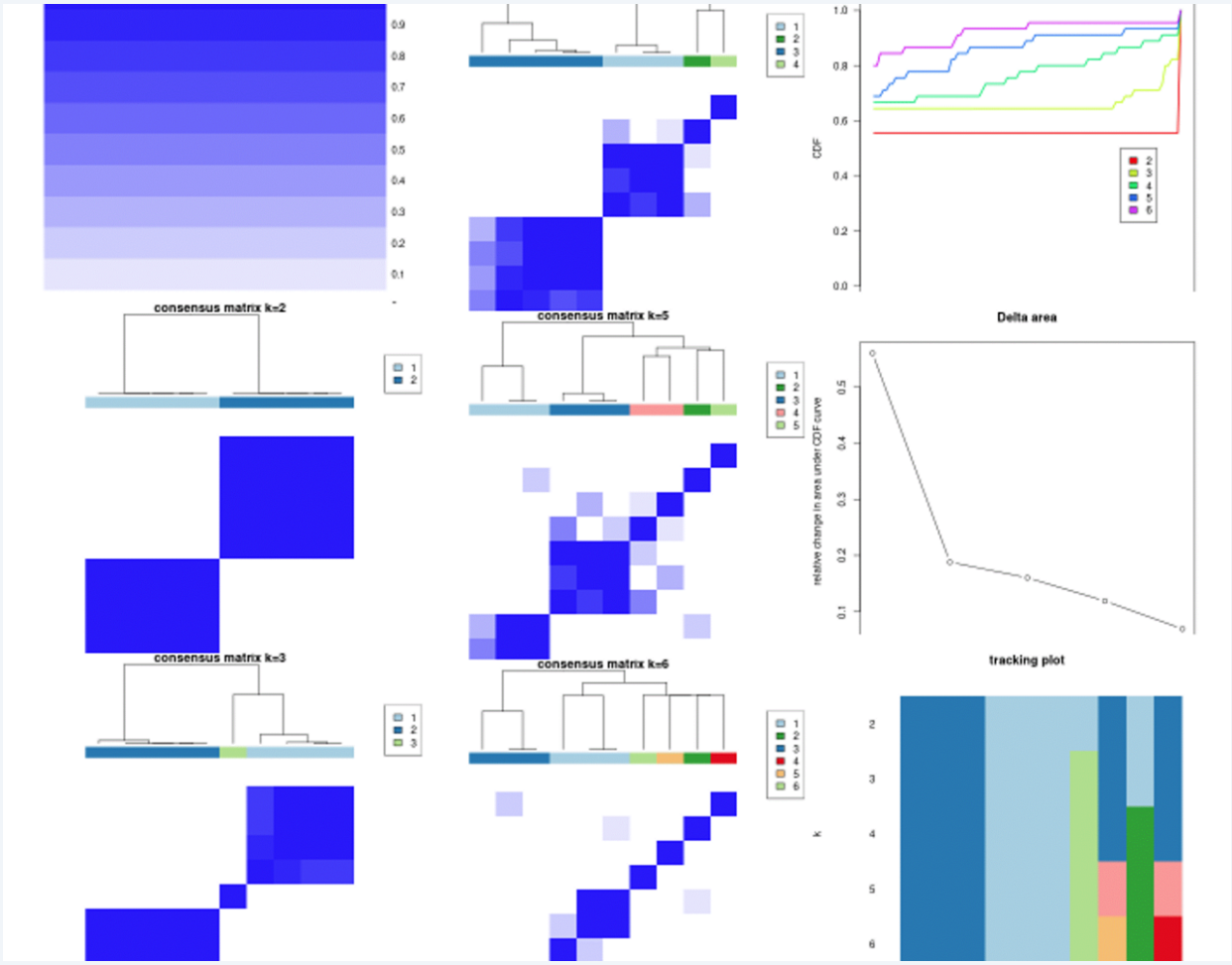
8 Select distance measurement to be used in the final agglomerative clustering.



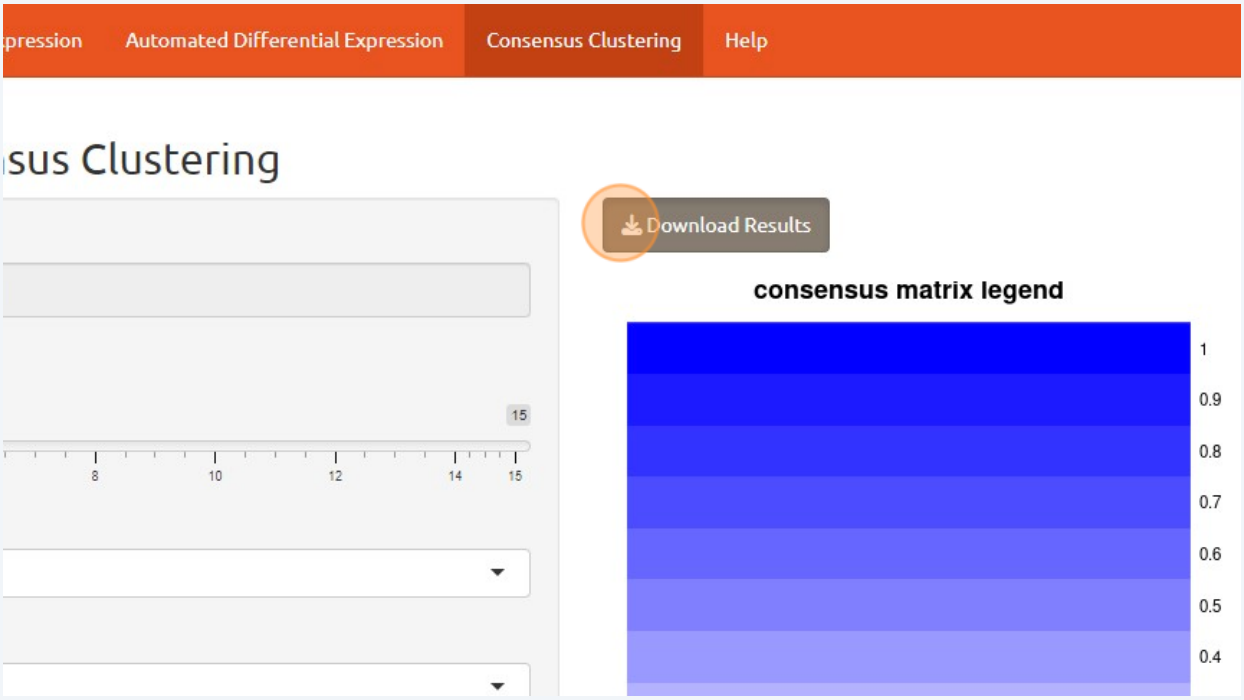
9 Click "Perform Clustering"



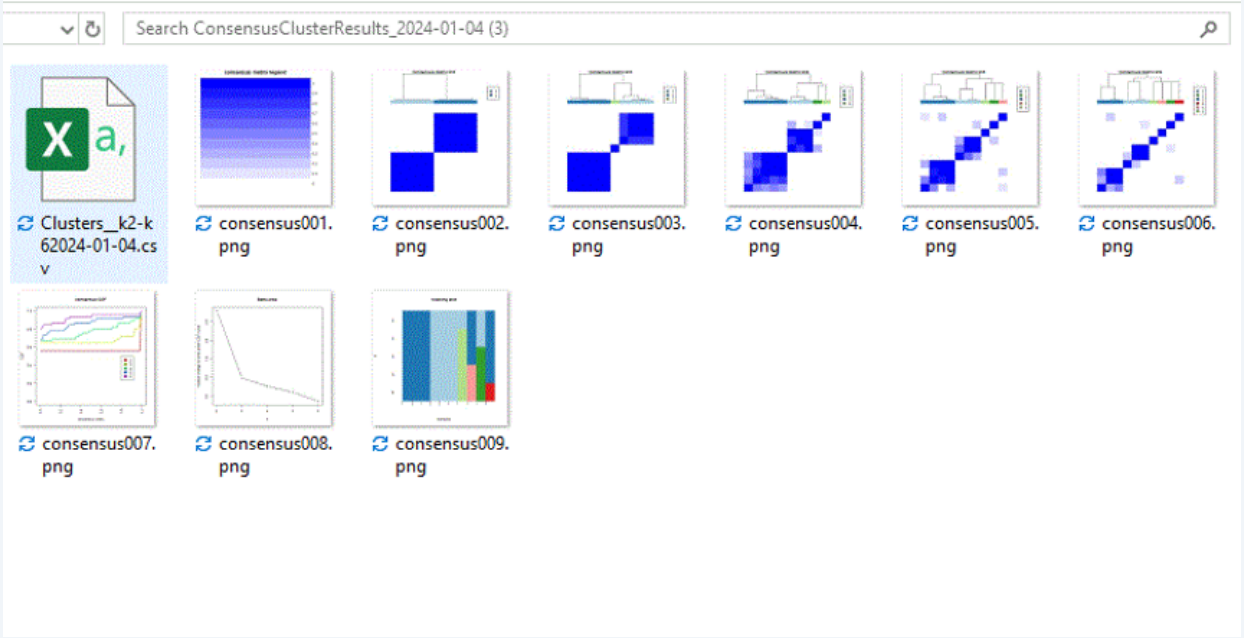
10 Explore the clustering results.



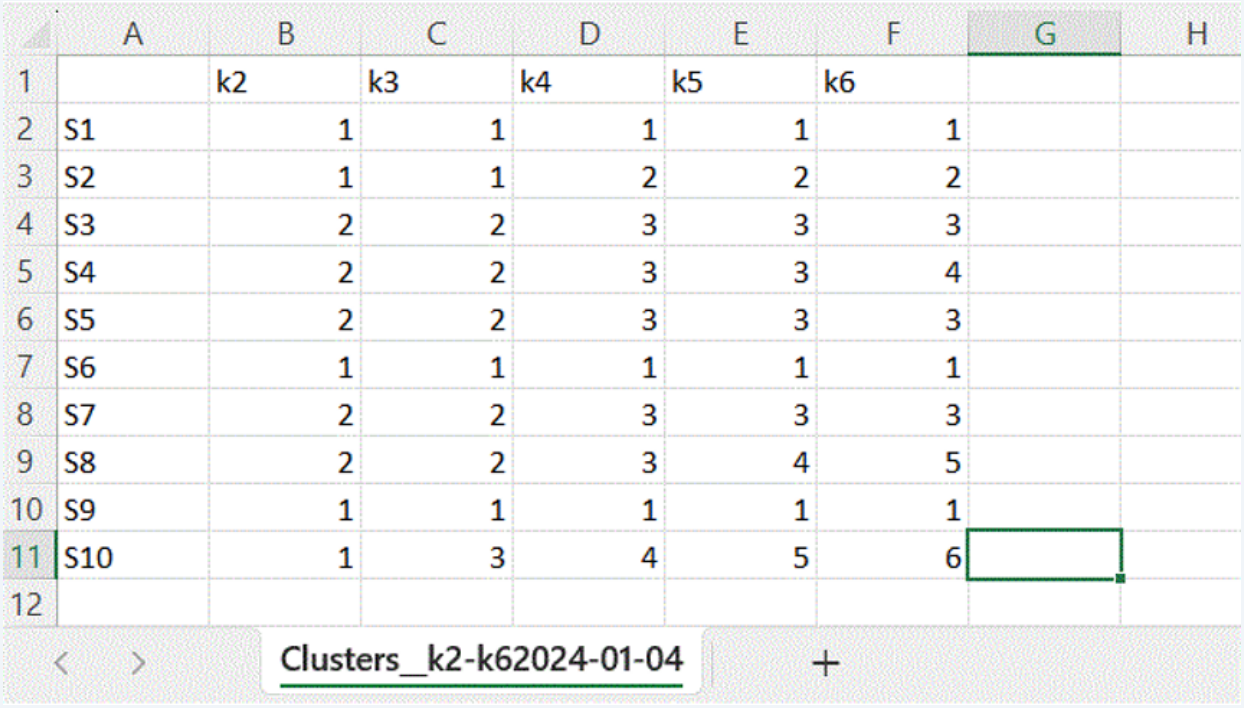
11 Click "download icon" to download the clustering results as a zip file.



12 The zip file consists of clustering outcome images and an excel with excel file with cluster assignments.



13 The cluster assignments matrix represents samples in rows and cluster number (i.e.1,2,3...) as columns.



	A	B	C	D	E	F	G	H
1		k2	k3	k4	k5	k6		
2	S1	1	1	1	1	1		
3	S2	1	1	2	2	2		
4	S3	2	2	3	3	3		
5	S4	2	2	3	3	4		
6	S5	2	2	3	3	3		
7	S6	1	1	1	1	1		
8	S7	2	2	3	3	3		
9	S8	2	2	3	4	5		
10	S9	1	1	1	1	1		
11	S10	1	3	4	5	6		
12								

Clusters_k2-k62024-01-04