

Cluster Analysis

Display differentially expressed genes that characterize the cluster.

Inputs

- Data: Data set.
- Custom Gene Sets: Genes to compare.

Outputs

- Selected Data: Data selected in the widget.

Cluster Analysis widget displays differentially expressed genes that characterize the cluster, and corresponding gene terms that describe differentially expressed genes.

The screenshot shows the 'Cluster Analysis' widget interface. On the left, the 'Info' panel displays '36 samples, 18 clusters' and '6,370 unique genes'. Below this, the 'Cluster Indicator' is set to 'class', the 'Batch Indicator' is 'None', and the 'Gene Scoring' method is 'T-test'. The 'Design' section has 'Cluster vs. rest' selected, and the 'Test Type' is 'Greater'. The main panel shows a table of differentially expressed genes for four conditions: 'caffeine|high|15 min', 'caffeine|high|5 min', 'caffeine|high|90 min', and 'caffeine|low|15 min'. Each condition lists enriched gene sets and their corresponding gene terms. The 'Filter Genes' and 'Filter Gene Sets' sections at the top right show settings for Count, p-value, and FDR.

Condition	Enriched Gene Sets	Gene Terms
caffeine high 15 min	(no enriched gene sets)	RG11, YPR195C, GAL2, HXT13, DOA4, GAT1, RMI1, ATF1, RPM2, YMR316CB, AIM10, YLR230W, ACH1, TPD3, DXO1, YFL067W, TEA1, YDR366C, DSC2, YML058CA
caffeine high 5 min	(no enriched gene sets)	SPO1, CDC4, UPS3, YGR035C
caffeine high 90 min	(no enriched gene sets)	YEL073C, OPI3, SNO3, FRA1, RME1, APE1, PDE1, YJL016W, ARO80, BAT2, FMP41, TSA2, PDX3, AIM46, MCP2, COQ4, YLR460C, ASP3-3, DAL5, VBA1
caffeine low 15 min	(no enriched gene sets)	

Gene Sets

5

▼ ☒ GO

☒ Biological Process

☒ Cellular Component

☒ Molecular Function

Custom Gene Sets

6

YOX1, YPL039W, CSE2

caffeine low 5 min	(no enriched gene sets)
	DPB3, MRX12, MTD1, TRP4, PTC7, HIS6, TEM1, KRE33, YCR064C, CDC73, GLR1, YPR078C, ATP25, YDL241W, YLR379W, YOL131W, RVB1, ULP1, ADE13, SPS19
caffeine low 90 min	(no enriched gene sets)
	(all genes are filtered out)

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1. Info
2. Cluster Indicator
3. Batch Indicator
4. Gene Scoring
5. Gene Sets
6. Custom Gene Sets
7. Filter Genes
8. Filter Gene Sets

Example

TODO: Example