

A Dataset and perturbation browser

Dataset module

Perturbation module

Features of experimental design



Title:

Modality:

Perturbation Description:

Features of perturbation name and perturbation effect

[Perturbation Query](#)

[PathWay2Data Query](#)

\* Perturbation :

[Search](#)

[?](#)

2-Methoxyestradiol

A-366

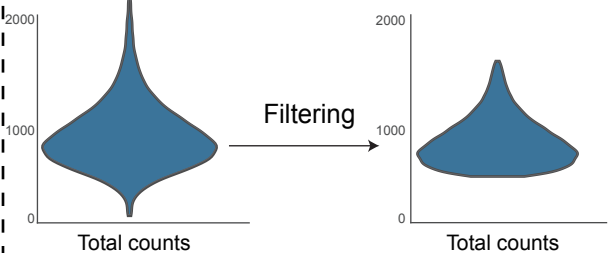
ABT-737

ACTL6A



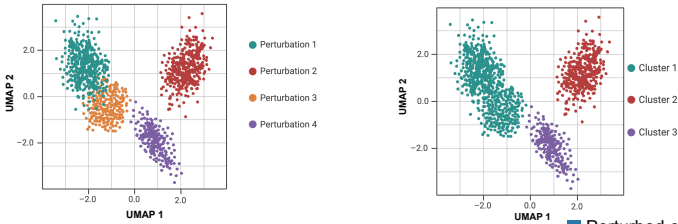
B Quality control

The percentage of mitochondria, total counts, number of genes etc.

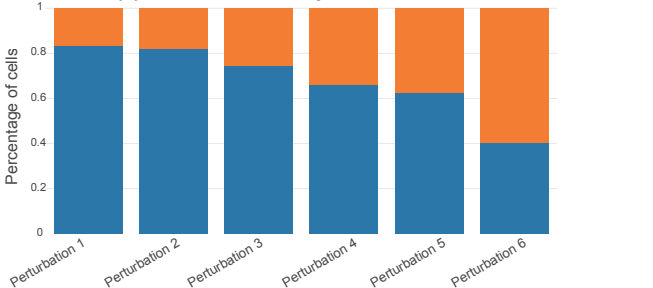


C Data denoising

(1) Dimensionality reduction visualization after denoising

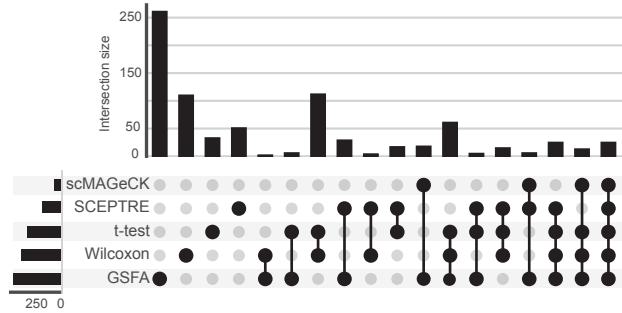


(2) The ratio of non-perturbed cells



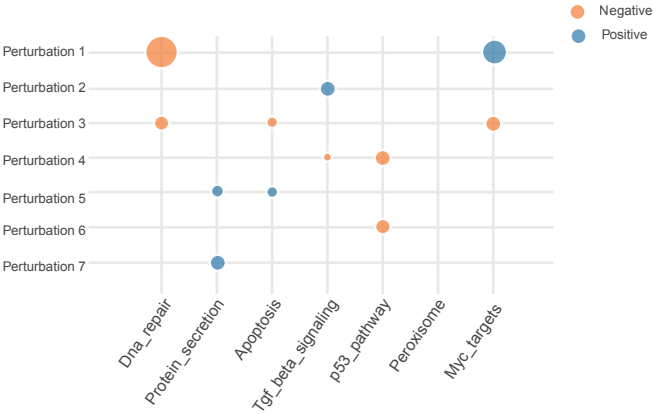
D Differential gene expression analysis

The intersection of differentially expressed genes



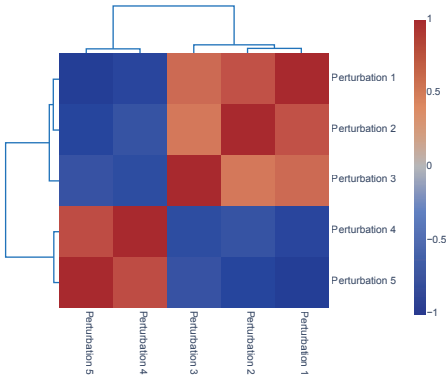
E Functional analysis of perturbation effects

Functional analysis by characterizing associations between perturbations and MSigDB signatures

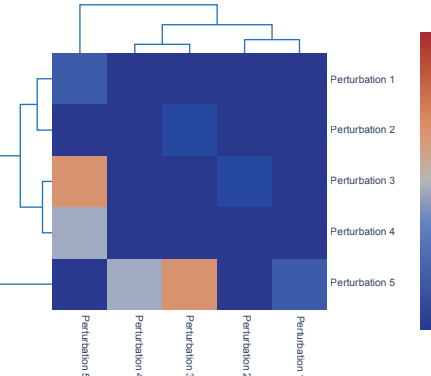


F Characterization of relationships between perturbations

(1) Cosine similarity heatmap based on processed expression profile



(2) Distance heatmap based on E-distance function in perpty



(3) Cosine similarity heatmap based on latent factors output by GSFA

