

A Dataset and perturbation browser

Dataset module

Perturbation module

Features of experimental design



Title: Please select

Modality: Please select

Perturbation Description: Please select

Features of perturbation name and perturbation effect

Perturbation Query

PathWay2Data Query

* Perturbation :

Please select perturbation (required)

Search

?

2-Methoxyestradiol

A-366

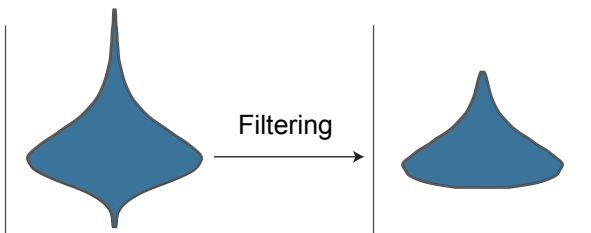
ABT-737

ACTL6A



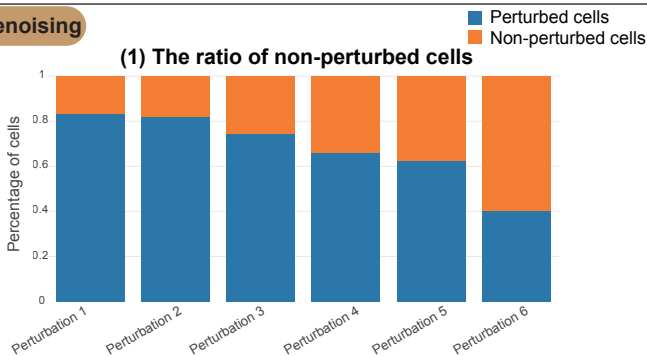
B Quality control

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

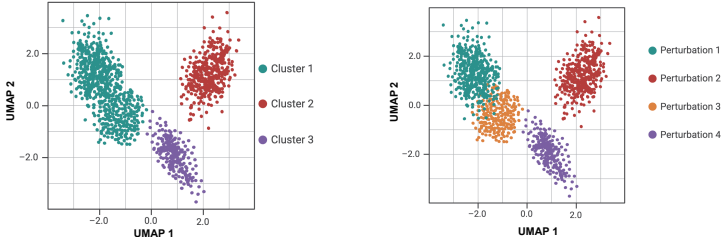


C Data denoising

(1) The ratio of non-perturbed cells

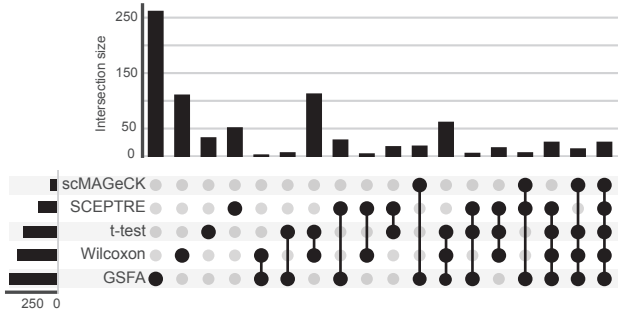


(2) Dimensionality reduction visualization after denoising



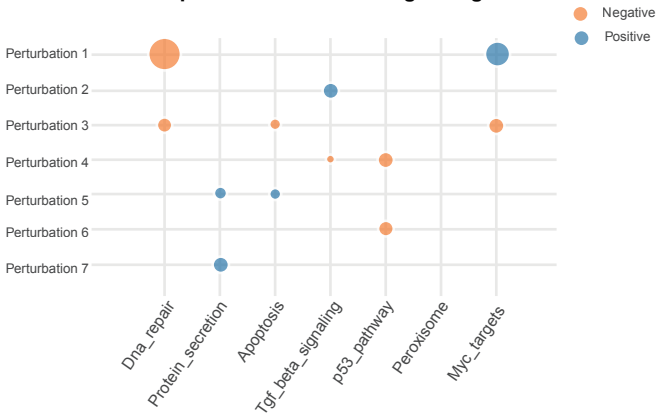
D Differential gene expression analysis

The intersection of differentially expressed genes



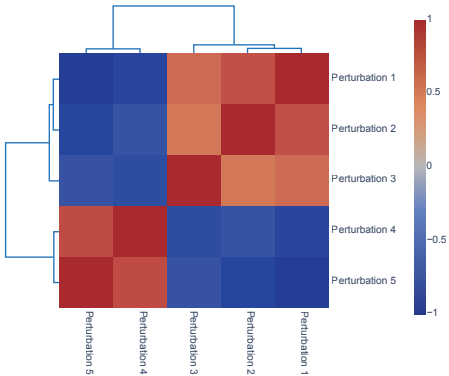
E Functional analysis of perturbation effects

Functional analysis by characterizing associations between perturbations and MSigDB signatures

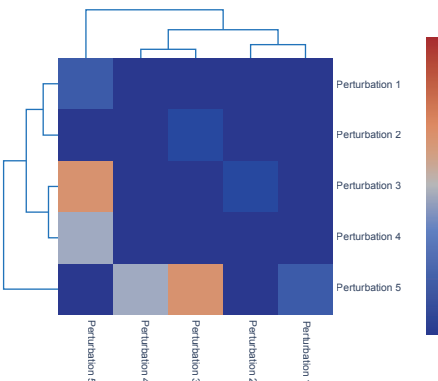


F Characterization of relationships between perturbations

(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

