

A Dataset and perturbation browser

Dataset module

PerturbBase Home Dataset Perturbation Download Help

Features of experimental design

Title: Please select NCBI Accession: Please select

Modality: Please select Model Description: Please select

Perturbation Description: Please select Perturbation Impact: Please select

Features of perturbation and function

Perturbation Query Pathway2Data Query

Perturbation module

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* Gene: MYC

A Quality control (1) gRNA statistic

B Denoising (1) Escaping ratio

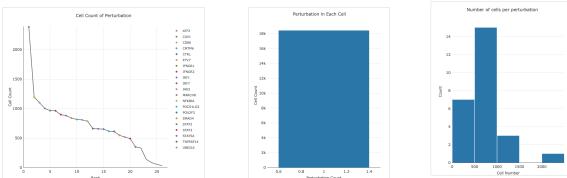
C Differential expression gene analysis (1) DEGs between different methods

D Perturbation function analysis (1) Function analysis by GO and KEGG

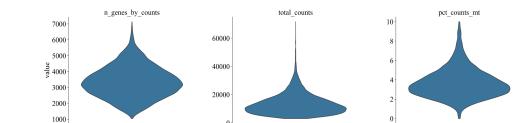
(2) Function analysis by characterizing a perturbation

B Quality control

(1) gRNA statistic



(2) Cell statistic

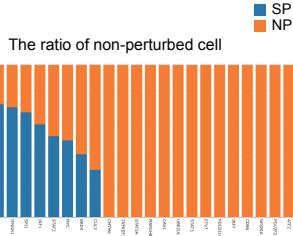


(3) Data dimension reduction visualization

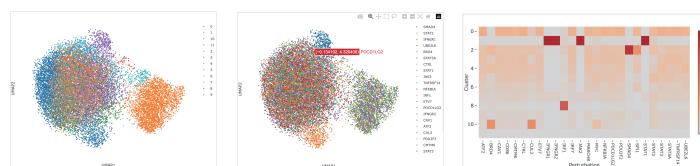


C Data denoising

(1) The ratio of non-perturbed cell

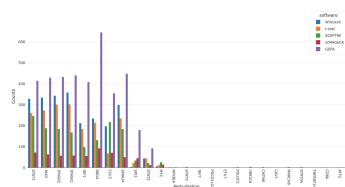


(2) Data dimension reduction visualization after denoising

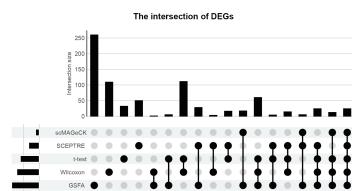


D Differential gene expression analysis

(1) DEGs between different methods

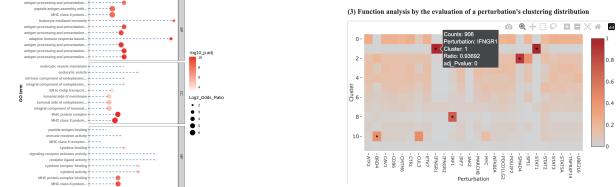


(2) The DEGs of a specific perturbation



E Functional analysis of perturbation effect

(1) Functional analysis by GO and KEGG enrichment (2) Functional analysis by the evaluation of a perturbation's clustering distribution



(3) Functional analysis by characterizing a perturbation's association with the MSigDB signatures



F Characterizing the relationship between perturbations

Based on processed expression profile, E-distance, and latent factors output by GSFA

