

A

## Single cell chromatin accessibility data

Metadata: Sample ID

Metadata: Cell type

Trait or disease data

## Tissue type

Heart 30

Sample ID

Tissue type

Health type Description

Cell count

GSE ID

PMID

sample\_id\_1

Basal cell carcinoma

Tumor Microenvironment (TME)

36721

GSE129785

31375813

sample\_id\_2

PBMC

Healthy blood development

28774

GSE139369

31792411,37597510

sample\_id\_3

PBMC

Healthy blood development

32457

GSE139369

31792411,37597510

## Health type

Disease 107

## Type

trait\_id\_1

BBJ

disease

AD

Atopic dermatitis

1409

trait\_id\_2

BBJ

disease

AFib

Atrial fibrillation

1568

trait\_id\_3

BBJ

indicator

AG

Albumin/Globulin ratio

4573

...

...

...

...

...

...

B

- ❑ Search information by category or source cohort >
- ❑ Search information by tissue type or cell type >
- ❑ Search information by gene >
- ❑ Search information by TF >
- ❑ Search information by SNP >

E

- ❑ Analyzing variant-to-function mapping >
- ❑ Analyzing variant-to-function mapping with genes >
- ❑ Analyzing variant-to-function mapping with TFs >

C

Trait ID	Source ID	Source cohort	Type	Trait abbreviation	Trait Description	ICD10	...
trait_id_1028	source_id_1	CAUSALdb	disease	BLNOSASTOL_F900284	Benign lipomatous neoplasm of skin and subcutaneous tissue of limbs	C44.0	...
trait_id_1029	source_id_1	CAUSALdb	disease	BLNOSASTOT_F900286	Benign lipomatous neoplasm of skin and subcutaneous tissue of trunk	C44.0	...
...	...	...	...	...	...	...	...

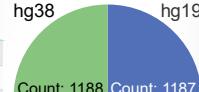
D

## Overview

hg19

hg38

## Trait count



## Regulation annotation

## Associated traits/diseases

- Common SNP Risk SNP
- eQTL Enhancer (SEA)
- Enhancer (SEdb v2)
- Super enhancer (SEA v3)
- Super enhancer (dbSUPER)
- Super enhancer (SEdb v2)

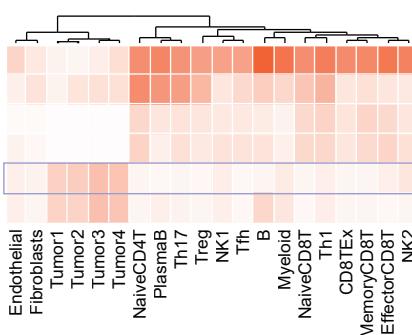
## Associated scATAC-seq

Sample ID	Tissue type	GSE ID
sample_id_1	Basal cell carcinoma	GSE129785
sample_id_105	Heart	GSE175621
...	...	...

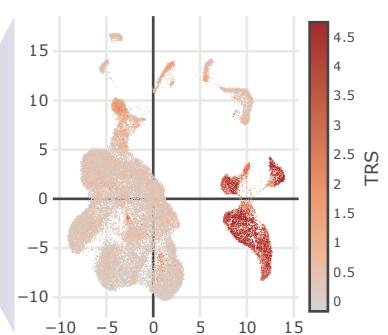
F

## Enrichment of cell types related to traits or diseases

- LAC\_GD01312 (trait\_id\_...)
- BCAC\_GD01352 (trait\_id...)
- LC\_PA00893 (trait\_id\_6...)
- Lym (trait\_id\_15763)
- BCCCEAC\_F900139 (trait...
- BCCIACEAC\_F900140 (tra...



## Basal cell carcinoma (trait\_id\_894)



G

☰ Statistics of fine-mapping results

☰ Statistics of scATAC-seq data

☰ Statistics of trait/disease-relevant cell score (TRS) data

☰ Statistics of annotation data

H

☰ Download trait/disease-relevant cell score (TRS) data

☰ Download fine-mapping result data

☰ Download other data