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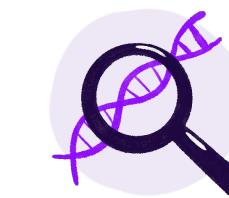
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OR

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Hearing

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Category	Action	Date
Gene Expression Search	"Inner Pillar Cell P0-P2" in Hearing	Mar 3, 2023
Dataset Search	"mouse" in all datasets with Bulk RNASeq type	Feb 26, 2023
Dataset Opened	scRNAseq, embryonic mouse spiral ganglion neurons, by timepoint (Sanders & Kelley 2022)	Feb 22, 2023
Saved Analysis	5dpf, homeostatic neuromast, zebrafish, scRNAseq (Piotrowski)	Dec 17, 2022



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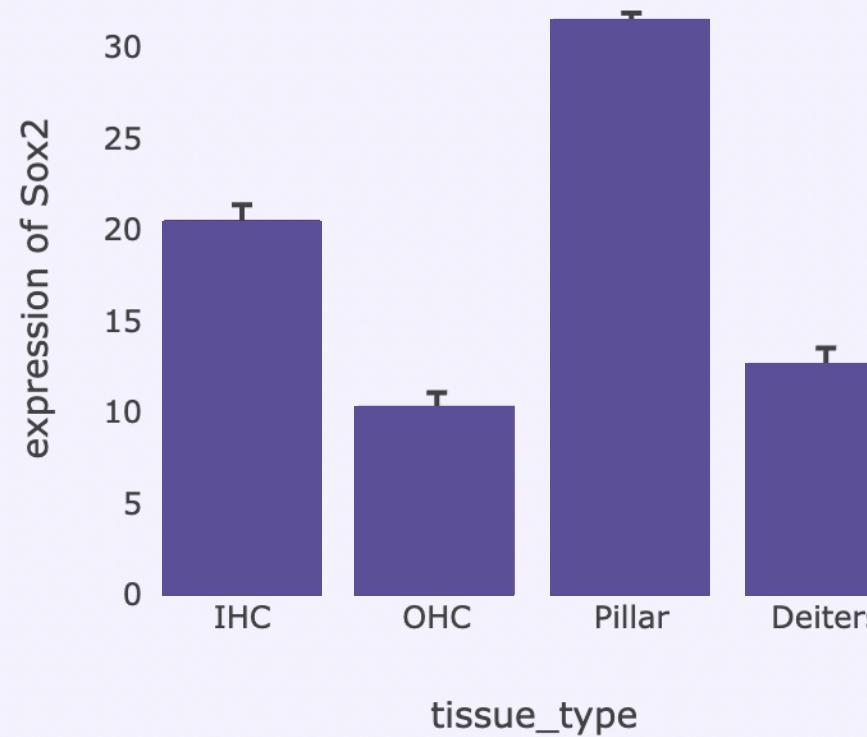
Hearing

 Exact Match  Single-gene Display  Multi-gene Display

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# Explore gene expression with over 1000 datasets!

gEAR is a one stop portal for creating visualizations at the press of a button, for all your gene analysis needs!

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## Why gEAR?

With gEAR, you can easily search gene expression and analyze them without any coding. You can also browse hundreds of public datasets





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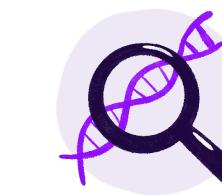
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Saved Analysis	5dpf, homeostatic neuromast, zebrafish, scRNAseq (Piotrowski)	Dec 17, 2022

## Compare genes within a single dataset

The comparison tool is designed for comparing differences in gene expression between two groups of samples in a single dataset and testing for statistical differences in expression.

### GUIDES



Learn how to use the comparison tool

[Try Now](#)



Search faster using gene lists and dataset collections

[Try Now](#)

### ≡ Select a dataset

Select a dataset to compare gene expression within

### → Select conditions you want to compare

### ≡ Select data filters, significance test and genes to highlight

Optional ▾





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## SEARCH

[Explore Gene Expression](#)   [Explore Datasets](#)

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Quick search using Gene Lists

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Hearing

 Exact Match  Single-gene Display  Multi-gene Display

## MY WORK

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Gene List Name	Organism	Date Created
P15 Smith Cochlea PCA 16 genes	Mus musculus	Mar 3, 2023
Eph/ ephrin in mice 6 genes	Mus musculus	Feb 26, 2023
Genes expressed higher in OHCs than IHCs 15 genes	Mus musculus	Feb 22, 2023
Type Ib SGNs 4 genes	Mus musculus	Dec 17, 2022

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Gene Expression Search and  
Dataset Explorer tools are  
still easily accessible from  
the homepage!

SEARCH

[Explore Gene Expression](#)   [Explore Datasets](#)



Type here to search using specific gene symbols

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Exact Match  Single-gene Display  Multi-gene Display



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Type here to search using specific gene symbols

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Quick search using Gene Lists

IN

Hearing

 Exact Match  Single-gene Display  Multi-gene Display

## MY WORK

[Resume Work](#)   [Gene Lists](#)   [Dataset Collections](#)

Gene List Name

Organism

Date Created

You currently don't have any dataset collections

[Create new dataset collection →](#)

## Select a dataset

E14, mouse, scRNA-seq, cochlear epithelium (Kelley)

## Select conditions you want to compare

### X-axis conditions

(i)

- cell\_type
- GER
- GER/Hmgn2
- IHC
- IdC
- LER/Bmp4\_1
- LER/Bmp4\_2
- LER/Fst
- LPro
- MPro
- OHC
- Oc90/Otoa
- Oc90/Sparcl1
- Oc90/3
- Oc90/4
- louvain

### Y-axis conditions

(i)

- cell\_type
- GER
- GER/Hmgn2
- IHC
- IdC
- LER/Bmp4\_1
- LER/Bmp4\_2
- LER/Fst
- LPro
- MPro
- OHC
- Oc90/Otoa
- Oc90/Sparcl1
- Oc90/3
- Oc90/4
- louvain

### Excluded Observations

(i)

- IdC
- LER/Bmp4\_1
- LER/Bmp4\_2
- LER/Fst
- LPro

## Select a dataset

E14, mouse, scRNA-seq, cochlear epithelium (Kelley)

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### Y-axis conditions

(i)

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## Select a dataset

E14, mouse, scRNA-seq, cochlear epithelium (Kelley)

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### Y-axis conditions

(i)

- cell\_type
- GER
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- IHC
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- Oc90/4
- louvain

### Excluded Observations

(i)

- IdC
- LER/Bmp4\_1
- LER/Bmp4\_2
- LER/Fst
- LPro



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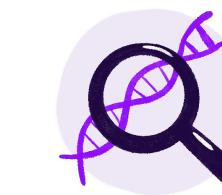
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OR

Quick search using Gene Lists

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Category	Action	Date
Gene Expression Search	"Inner Pillar Cell P0-P2" in Hearing	Mar 3, 2023
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Saved Analysis	5dpf, homeostatic neuromast, zebrafish, scRNAseq (Piotrowski)	Dec 17, 2022

→ Select conditions you want to compare

≡ Select data filters, significance test and genes to highlight

Optional ▾

Significance test

i

Data filters

i

Select test

None

Log10

P-value cutoff

0.05

2.0

Cutoff filter

Colorize

Standard Deviation

No filter

Plot

→ Select conditions you want to compare

≡ Select data filters, significance test and genes to highlight

Optional ▾

Significance test

i

Data filters

i

Select test

None

Log10

P-value cutoff

0.05

2.0

Cutoff filter

Colorize

Standard Deviation

No filter

Plot

**None - Raw values**

**Log2**

**Log10**

[Skip tutorial](#)

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Manually type the names of genes you want to search for.

Or select a pre-curated gene list from the dropdown to search with.

 Type here to search using specific gene symbols

OR [Quick search using Gene Lists](#) ▾

IN

Hearing



→ Select conditions you want to compare

≡ Select data filters, significance test and genes to highlight

Optional ▾

Significance test

i

Data filters

i

Select test

None

Log2

P-value cutoff

0.05

2.0

Cutoff filter

Colorize

Standard Deviation

No filter

Plot

**Search the hell out of genes**

Search (technique, organism, gene) Search genes in curated displays. Search all datasets for your gene expression needs, at the click of a button!

**GUIDES**

Search faster using gene lists and dataset collections

[Try Now](#)

Search faster using gene lists and dataset collections

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Inner Pillar Cell P0-P2: [Ace](#) [Gm45645](#) [Npy](#)

IN

[Hearing](#)

Exact Match  Single-gene Display  Multi-gene Display





## Selected Dataset

E14, mouse, scRNA-seq,  
cochlear epithelium (Kelley)

## Comparison Conditions

X-axis

cell\_type

IHC

Y-axis

cell\_type

OHC

## Filters and Test

Data Filters

Log Transformation

Log2

Fold-change Cutoff

2.0

Standard Deviation

None

Significance Test

Test

None

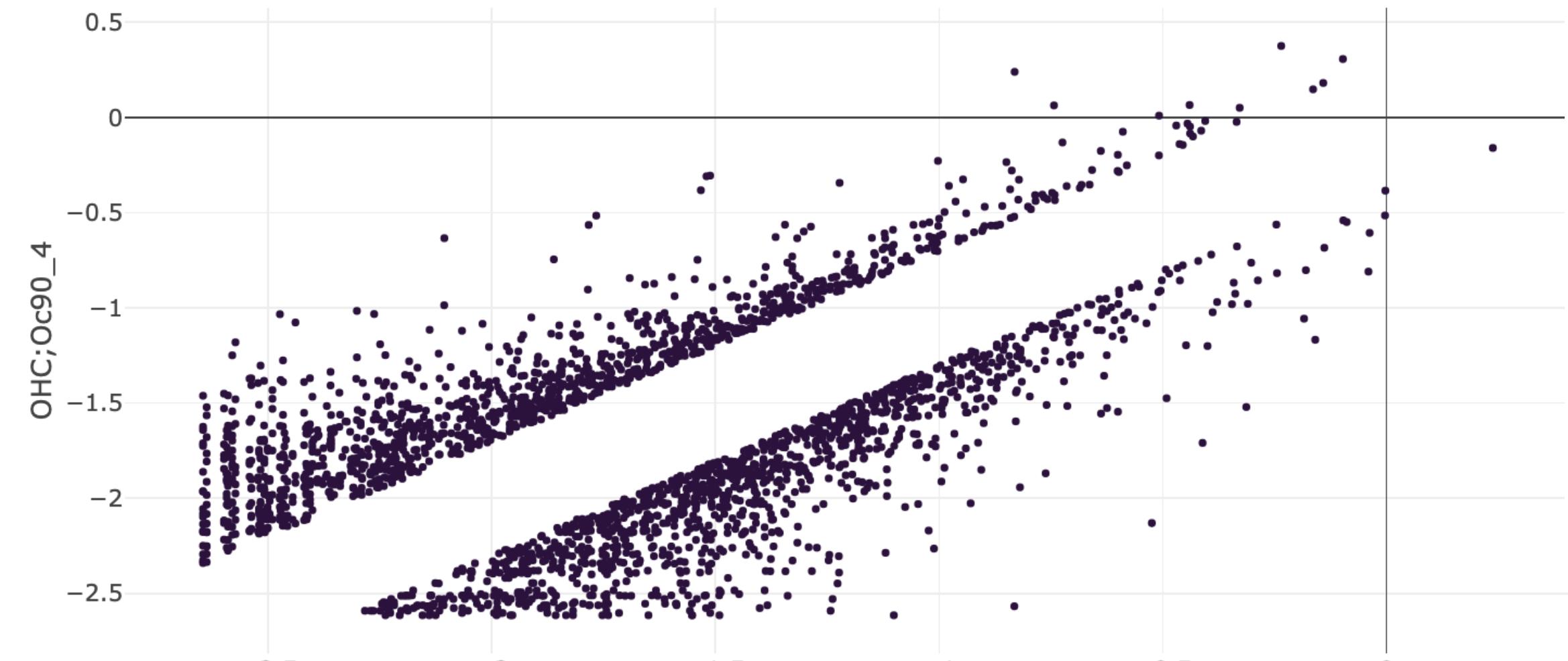
P-value Cutoff

0.05

Cutoff Filter

Colorize

## E14, mouse, scRNA-seq, cochlear epithelium (Kelley)



IHC;Oc90\_3

## Highlight specific genes

Search for specific genes to highlight

Edit Plot



**Search the hell out of genes**

Search (technique, organism, gene) Search genes in curated displays. Search all datasets for your gene expression needs, at the click of a button!

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OR

Quick search using Gene Lists ▾

IN

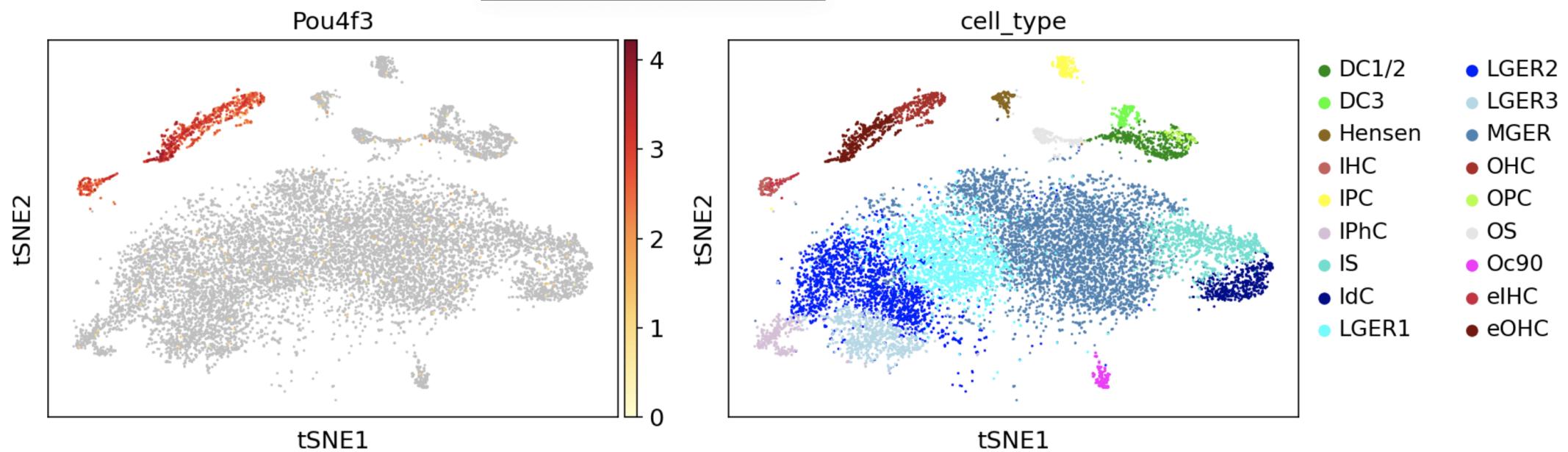
Hearing ▾

 Exact Match  Single-gene Display  Multi-gene Display

Scoring Method: Gene Scope ▾

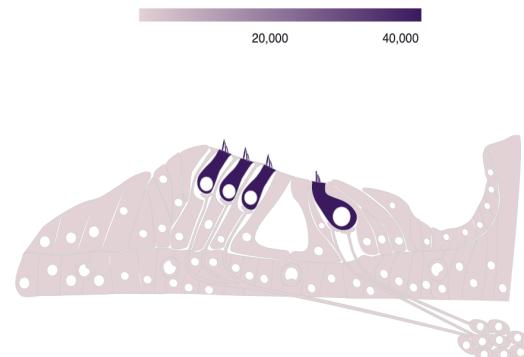
P1, mouse, scRNA-seq, cochlear epithelium (Kelley)

⋮



P0, mouse, RNA-seq, hair cells vs  
epithelial non-hair cells (Hertzano)

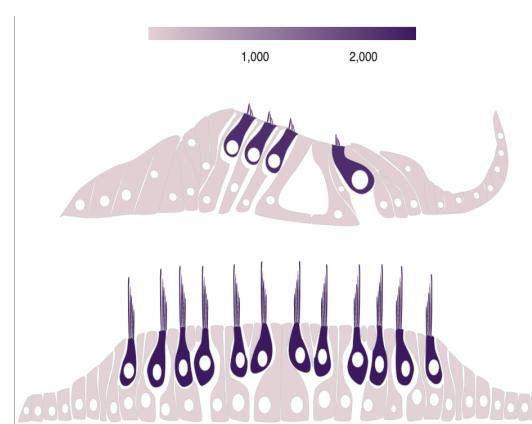
⋮



Gene Not Found

P0, mouse, RNA-seq, cochlea, hair  
cells compared with rest of cochlear  
duct (Groves)

⋮



Gene Not Found

P2, mouse, sc-qRT-PCR, cochlea  
(Heller)

⋮



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Searches are conducted within a group of datasets.  
Select a dataset group from the dropdown to search within.

 Type here to search using specific gene symbols

OR

Quick search using Gene Lists ▾

IN

Hearing ▾



Inner Pillar Cell P0-P2: Ace × Gm45645 × Npy ×

IN

Hearing



Exact Match  Single-gene Display  Multi-gene Display

## Search Results (3)

Ace

Gm45645

Npy

Showing results for: Ace

Organism i

Select an organism

Deafness Gene Annotation i

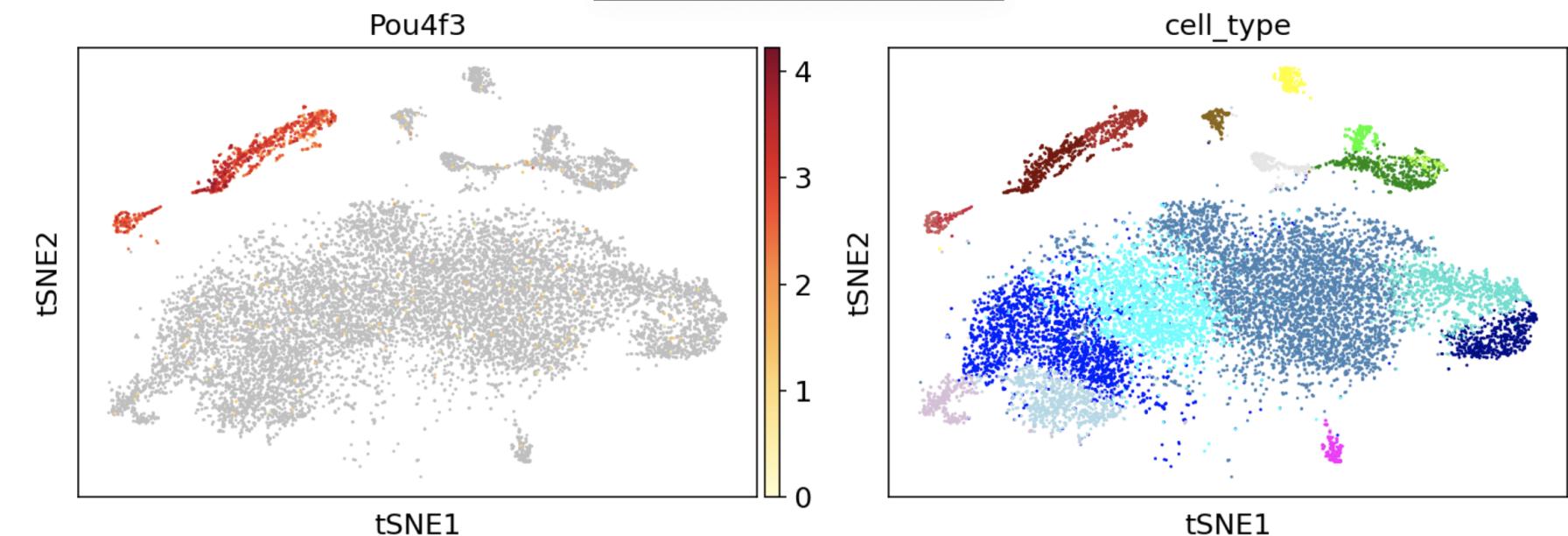
Mouse Human DFNA54

External Resource Links

Functional annotation: -

Scoring Method: Gene Scope

P1, mouse, scRNA-seq, cochlear epithelium (Kelley)



P0, mouse, RNA-seq, hair cells vs epithelial non-hair cells (Hertzano)

20,000 40,000

P0, mouse, RNA-seq, cochlea, hair cells compared with rest of cochlear duct (Groves)

1,000 2,000

P2, mouse, sc-qRT-PCR, cochlea (Heller)



Chicken

Human

Marmoset

Mouse

Rat

Zebrafish

Gene Scope

Tissue Scope

Dataset Scope

Ace × Gm45645 × Npy ×

IN

Hearing



Exact Match  Single-gene Display  Multi-gene Display

## Search Results (3)

Ace

Gm45645

Npy

Showing results for: Ace

Organism

Deafness Gene Annotation

External Resource Links

Select an organism

Mouse

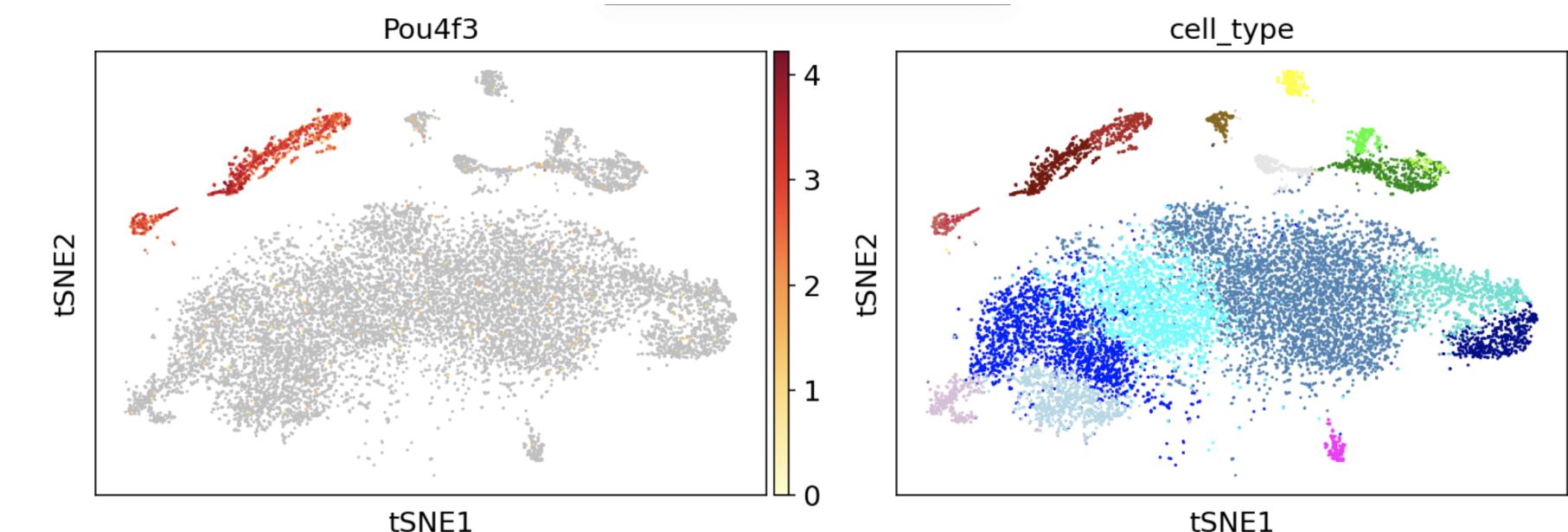
Human

DFNA54

Functional annotation: -

Scoring Method: Gene Scope

P1, mouse, scRNA-seq, cochlear epithelium (Kelley)



P0, mouse, RNA-seq, hair cells vs epithelial non-hair cells (Hertzano)

20,000 40,000

P0, mouse, RNA-seq, cochlea, hair cells compared with rest of cochlear duct (Groves)

1,000 2,000

P2, mouse, sc-qRT-PCR, cochlea (Heller)



Inner Pillar Cell P0-P2: Ace × Gm45645 × Npy ×

IN

Hearing



Exact Match  Single-gene Display  Multi-gene Display

### Search Results (3)

Ace

Gm45645

Npy

Showing results for: Npy

Organism iDeafness Gene Annotation i

External Resource Links

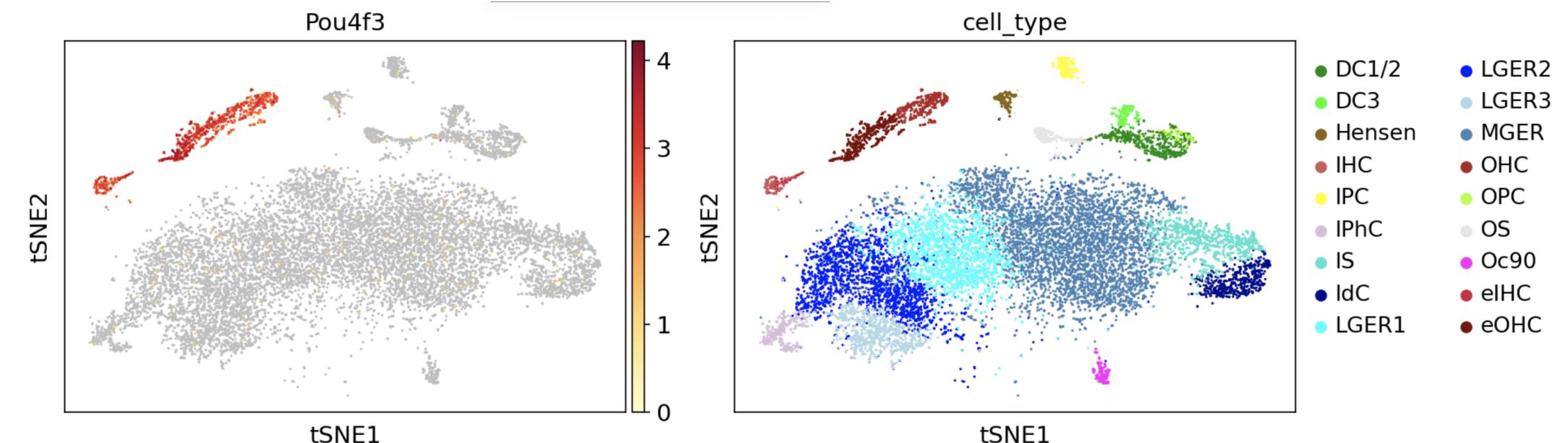
Select an organism

Mouse Human DFNA54

Functional annotation: -

Scoring Method: Gene Scope

P1, mouse, scRNA-seq, cochlear epithelium (Kelley)



P0, mouse, RNA-seq, hair cells vs epithelial non-hair cells (Hertzano)

20,000 40,000

P0, mouse, RNA-seq, cochlea, hair cells compared with rest of cochlear duct (Groves)

1,000 2,000

P2, mouse, sc-qRT-PCR, cochlea (Heller)



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## Use Dataset

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Exact Match  Single-gene Display  Multi-gene Display

## Search Results (3)

Ace

Gm45645

Npy

Showing results for: Npy

Organism

Deafness Gene Annotation

External Resource Links

Select an organism

Mouse

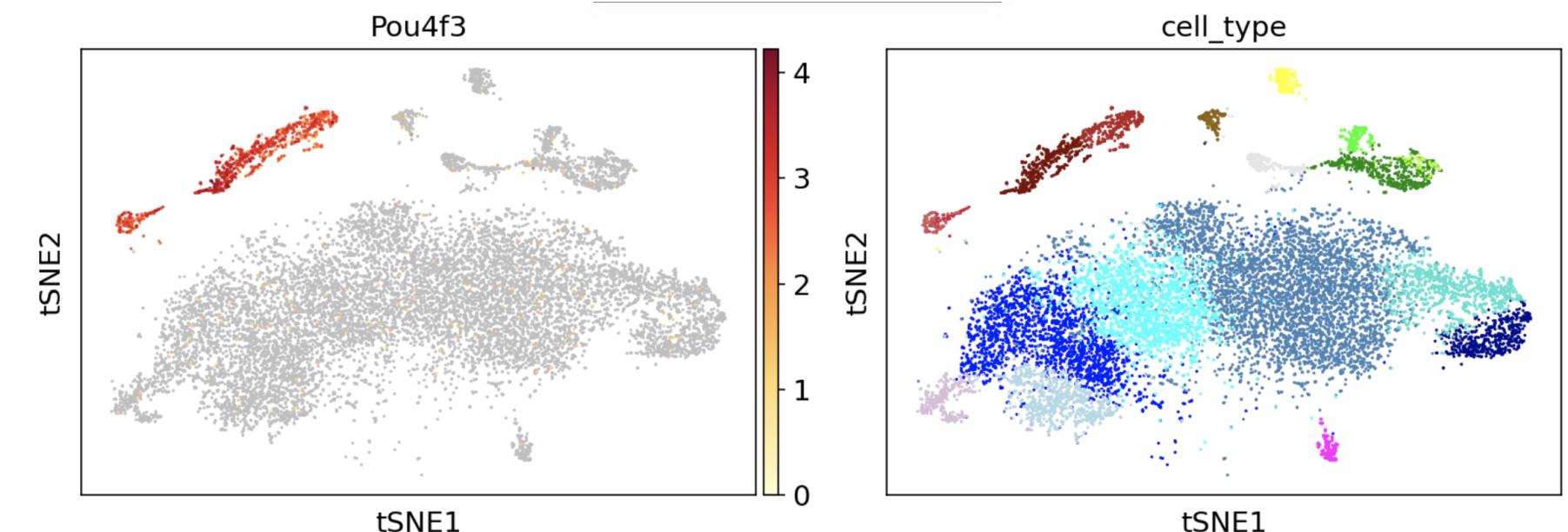
Human

DFNA54

Functional annotation: -

Scoring Method: Gene Scope

P1, mouse, scRNA-seq, cochlear epithelium (Kelley)



P0, mouse, RNA-seq, hair cells vs epithelial non-hair cells (Hertzano)

20,000 40,000

P0, mouse, RNA-seq, cochlea, hair cells compared with rest of cochlear duct (Groves)

1,000 2,000

P2, mouse, sc-qRT-PCR, cochlea (Heller)



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Exact match returns results that exactly match your search input. Turning off exact match will return results that contain the characters in your search input

You can display plots involving multiple genes. Examples of these include heat-maps (cluster-maps), violin plots and volcano plots.

Exact Match  Single-gene Display  Multi-gene Display

Inner Pillar Cell P0-P2: Ace × Gm45645 × Npy ×

IN

Hearing



Exact Match  Single-gene Display  Multi-gene Display

## Search Results (3)

Ace

Gm45645

Npy

Showing results for: Ace

Organism i

Mouse

Deafness Gene Annotation i

Mouse

Human

DFNA54

External Resource Links

UniParc

ENSEMBL

PubMed

HomoloGene

Functional annotation: angiotensin I converting enzyme (peptidyl-dipeptidase A) 1

## Annotation

## Product

angiotensin I converting enzyme (peptidyl-dipeptidase A) 1

## Gene symbol

Ace

## Aliases

N/A

## Ensembl ID (Release 99)

ENSMUSG00000024496

## GO terms (7)

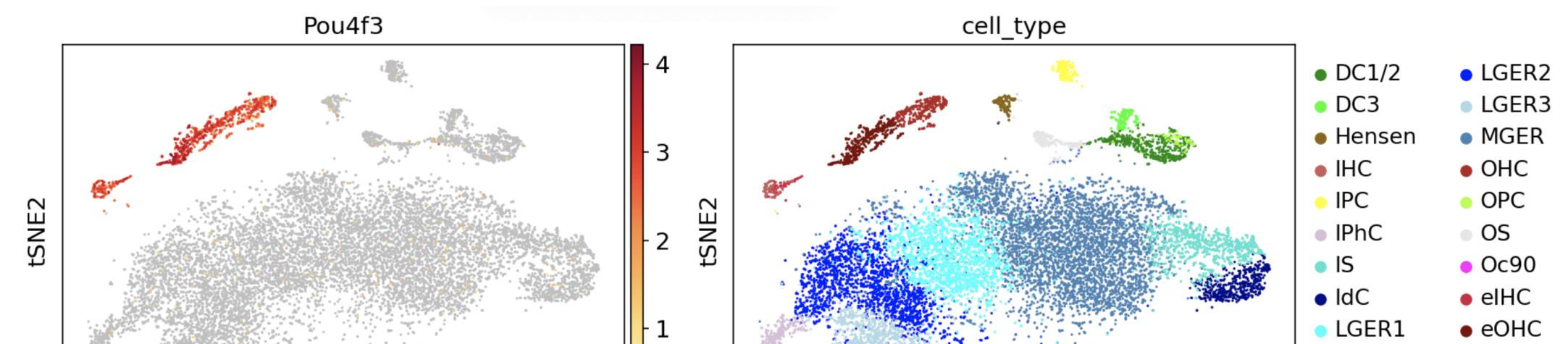
GO:0003677 DNA binding

## miRNA Tree

N/A

Scoring Method: Gene Scope

P1, mouse, scRNA-seq, cochlear epithelium (Kelley)



Ace × Gm45645 × Npy ×

IN

Hearing


 Exact Match  Single-gene Display  Multi-gene Display

## Search Results (3)

Ace

Gm45645

Npy

Showing results for: Ace

Organism i

Mouse

Deafness Gene Annotation i

Mouse

Human

DFNA54

External Resource Links

UniParc

ENSEMBL

PubMed

HomoloGene

Functional annotation: angiotensin I converting enzyme (peptidyl- dipeptidase A) 1

## Annotation

## Product

angiotensin I converting enzyme  
(peptidyl- dipeptidase A) 1

## Gene symbol

Ace

## Aliases

N/A

## Ensembl ID (Release 99)

ENSMUSG00000024496

## GO terms (7)

GO:0003677	DNA binding

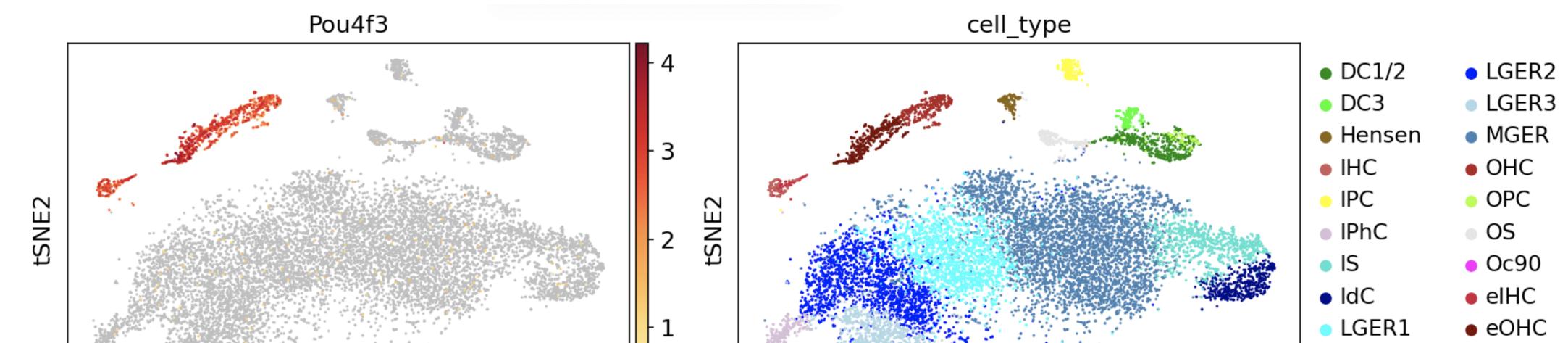
## miRNA Tree

N/A

Scoring Method: Gene Scope

P1, mouse, scRNA-seq, cochlear epithelium (Kelley)

⋮



Inner Pillar Cell P0-P2: Ace × Gm45645 × Npy ×

IN

Hearing



Exact Match  Single-gene Display  Multi-gene Display

## Search Results (3)

Ace

Gm45645

Npy

Showing results for: Npy

Organism i

Mouse

Deafness Gene Annotation i

Mouse

Human

DFNA54

External Resource Links

[UniParc](#)[ENSEMBL](#)[PubMed](#)[HomoloGene](#)

Functional annotation: angiotensin I converting enzyme (peptidyl-dipeptidase A) 1

## Annotation

## Product

angiotensin I converting enzyme  
(peptidyl-dipeptidase A) 1

## Gene symbol

Ace

## Aliases

N/A

## Ensembl ID (Release 99)

ENSMUSG00000024496

## GO terms (7)

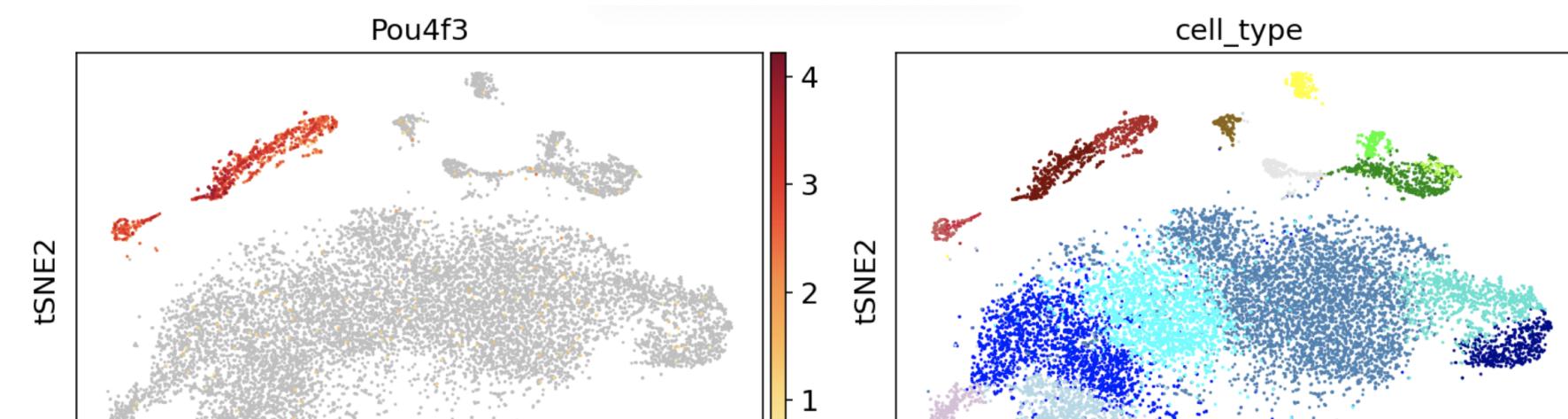
GO:0003677	DNA binding

## miRNA Tree

N/A

Scoring Method: Gene Scope

P1, mouse, scRNA-seq, cochlear epithelium (Kelley)



Ace × Gm45645 × Npy ×

IN

Hearing


 Exact Match  Single-gene Display  Multi-gene Display

## Search Results (3)

Ace

Gm45645

Npy

## Showing results for: Npy

Organism i

Mouse

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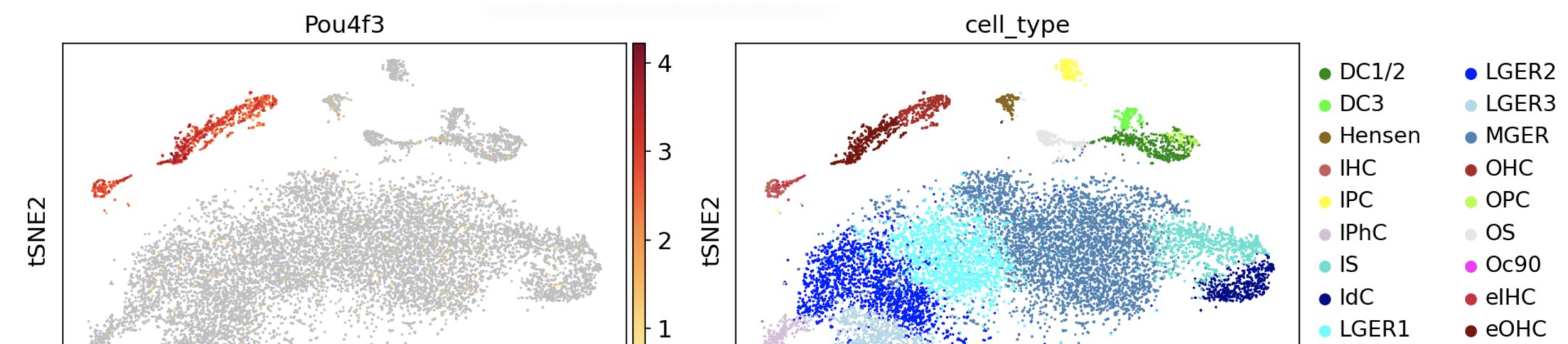
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⋮



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You can now resume your work from your dashboard! Return to your ongoing work, manage your gene lists and dataset groups, all in one place.

## ⌚ MY WORK

[Resume works](#) Gene Lists Dataset Collections

Category	Action	Date
Gene Expression Search	“fgf8 tbx2 shtn1 nefl fam19a3” in Hearing	Mar 3, 2023
Dataset Search	“mouse” in all datasets with Bulk RNASeq type	Feb 26, 2023
Dataset Opened	scRNAseq, embryonic mouse spiral ganglion neurons, by timepoint (Sanders & Kelley 2022)	Feb 22, 2023
Saved Analysis	5dpf, homeostatic neuromast, zebrafish, scRNAseq (Piotrowski)	Dec 17, 2022

Inner Pillar Cell P0-P2: Ace × Gm45645 × Npy ×

IN

Hearing



Exact Match  Single-gene Display  Multi-gene Display

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Gm45645

Npy

Showing results for: Ace

Organism i

Mouse

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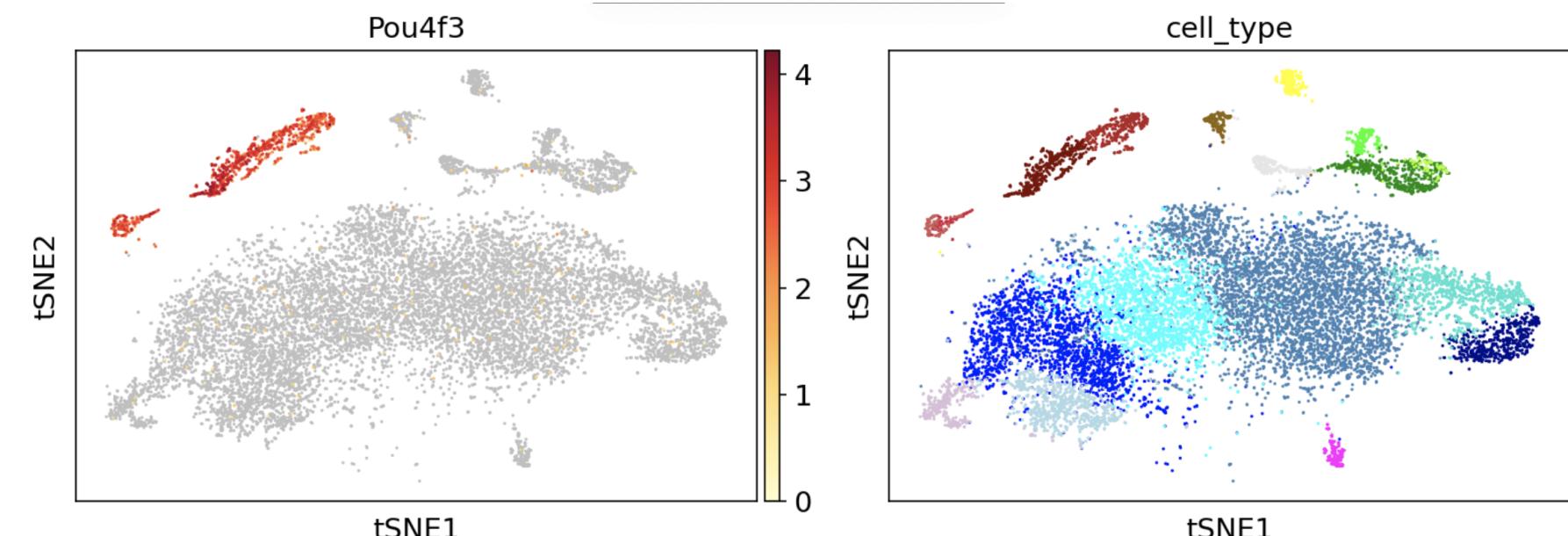
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P0, mouse, RNA-seq, hair cells vs epithelial non-hair cells (Hertzano)

20,000 40,000

P0, mouse, RNA-seq, cochlea, hair cells compared with rest of cochlear duct (Groves)

1,000 2,000

P2, mouse, sc-qRT-PCR, cochlea (Heller)



Ace × Gm45645 × Npy ×

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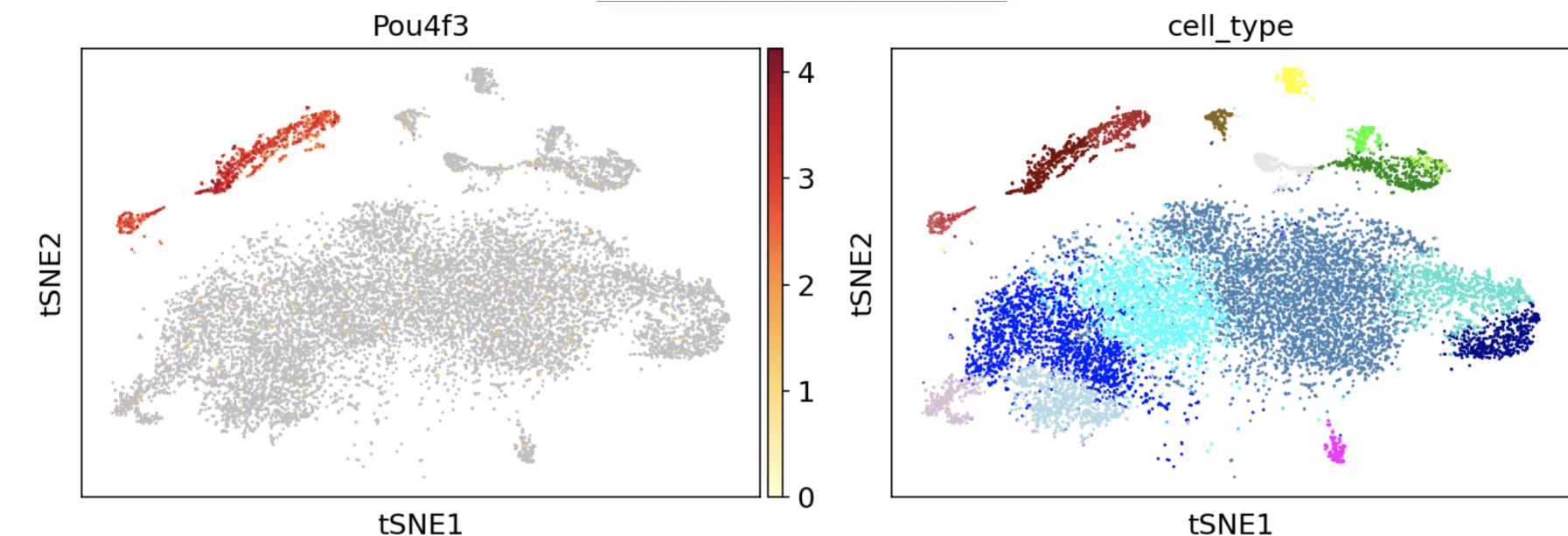
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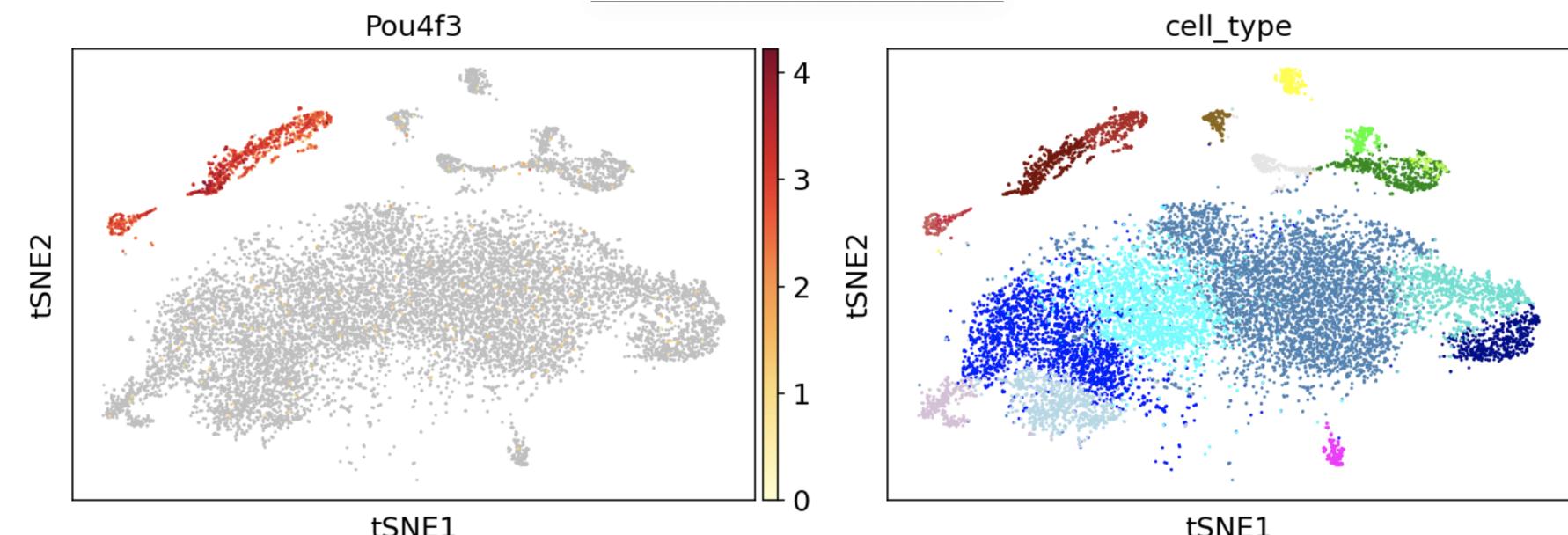
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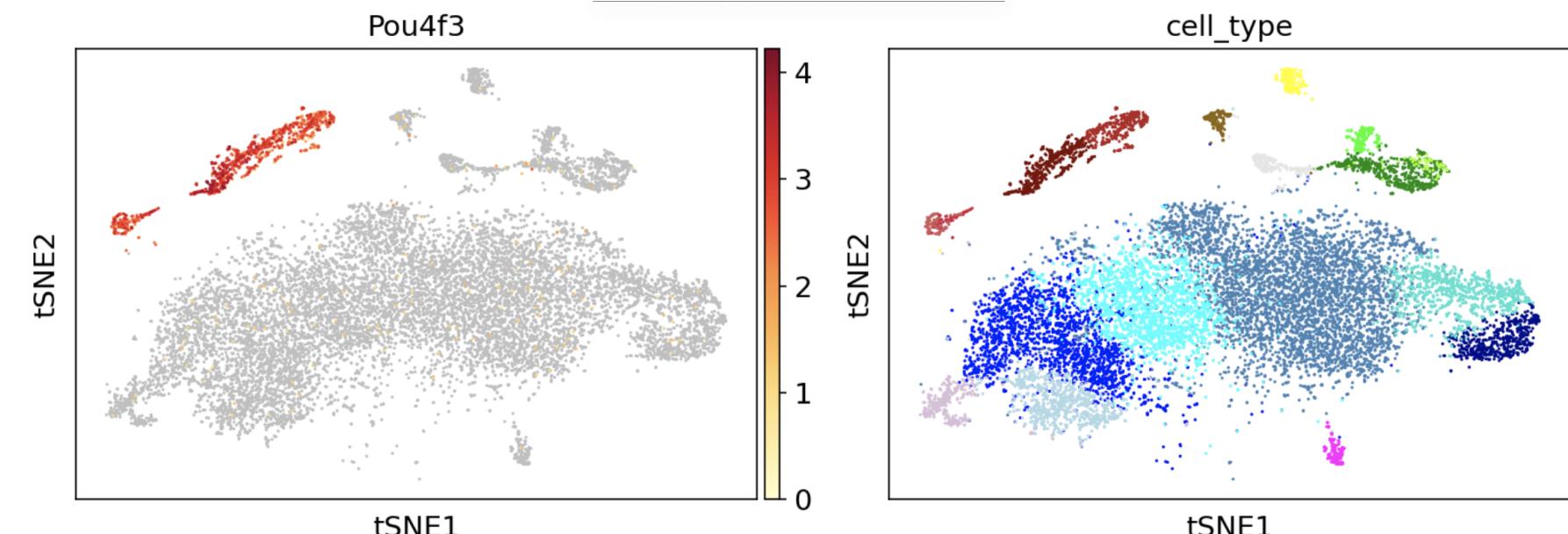
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