Package 'tenXplore'

July 24, 2025

Title ontological exploration of scRNA-seq of 1.3 million mouse neurons from 10x genomics

Description
Perform ontological exploration of scRNA-seq of 1.3 million mouse neurons from 10x genomics.

Version 1.30.0

Author Vince Carey

Suggests org.Hs.eg.db, testthat, knitr, rmarkdown, BiocStyle

Depends R (>= 4.0), shiny

Imports methods, ontoProc (>= 0.99.7), SummarizedExperiment, AnnotationDbi, matrixStats, org.Mm.eg.db, stats, utils, BiocFileCache

Maintainer VJ Carey `<stvjc@channing.harvard.edu>`

License Artistic-2.0

LazyLoad yes

biocViews ImmunoOncology, DimensionReduction, PrincipalComponent, Transcriptomics, SingleCell

VignetteBuilder knitr

RoxygenNote 7.3.2

git_url https://git.bioconductor.org/packages/tenXplore

git_branch RELEASE_3_21

git_last_commit 3cd7a55

git_last_commit_date 2025-04-15

Repository Bioconductor 3.21

Date/Publication 2025-07-23

Contents

`CellTypes` *cellTypes: data.frame with ids and terms*

Description

cellTypes: data.frame with ids and terms

Usage

```
CellTypes
```

Format

TermSet instance

Source

efo.owl, August 2017, subclasses of `http://www.ebi.ac.uk/efo/EFO_0000324`

Examples

```
data(CellTypes)
head(slot(CellTypes, "cleanFrame"))
```

`se1.3M` *add/retrieve HSDS-based SE to/from cache*

Description

add/retrieve HSDS-based SE to/from cache

Usage

```
se1.3M(cache = BiocFileCache::BiocFileCache())
```

Arguments

`cache`	BiocFileCache-like cache

`tenx500` *tenx500: serialized full SummarizedExperiment for demonstration*

Description

tenx500: serialized full SummarizedExperiment for demonstration

Usage

```
tenx500
```

Format

SummarizedExperiment instance

Source

restfulSE se1.3M pared down to 500 samples, assay materialized and assigned

Examples

```
data(tenx500)
tenx500
```

`tenXplore` *basic shiny interface to 10x data with ontological setup for cell selection*

Description

basic shiny interface to 10x data with ontological setup for cell selection

Usage

```
tenXplore()
```

Value

shiny app invocation

Note

Starts slowly as it sets up connection to HDF Server.

Examples

```
tenXplore
```

Index