

Package ‘TabulaMurisData’

November 19, 2024

Type Package

Title 10x And SmartSeq2 Data From The Tabula Muris Consortium

Version 1.25.0

Description Access to processed 10x (droplet) and SmartSeq2
(on FACS-sorted cells) single-cell RNA-seq data from the Tabula Muris
consortium (<http://tabula-muris.ds.czbiohub.org/>).

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Encoding UTF-8

LazyData true

biocViews SingleCellData, ExperimentData, RNASeqData

Depends R (>= 3.5)

Imports ExperimentHub, utils

Suggests knitr, rmarkdown, BiocStyle, SingleCellExperiment, scran,
scater, iSEE, testthat

VignetteBuilder knitr

RoxygenNote 6.1.0

git_url <https://git.bioconductor.org/packages/TabulaMurisData>

git_branch devel

git_last_commit 3ac627b

git_last_commit_date 2024-11-02

Repository Bioconductor 3.21

Date/Publication 2024-11-19

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Contents

TabulaMurisData	2
TabulaMurisDroplet	2
TabulaMurisSmartSeq2	3

Index

4

TabulaMurisData	<i>TabulaMurisData</i>
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Description

This ExperimentHub package provides access to the 10x (droplet) and SmartSeq2 (on FACS-sorted cells) single-cell RNA-seq data from the Tabula Muris Consortium (<http://tabula-muris.ds.czbiohub.org/>)

Author(s)

Charlotte Soneson

References

The Tabula Muris Consortium: Single-cell transcriptomics of 20 mouse organs creates a *Tabula Muris*. Nature doi:10.1038/s41586-018-0590-4 (2018).

TabulaMurisDroplet	<i>Tabula Muris 10x data</i>
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Description

UMI counts from the 10x (droplet) single-cell RNA-seq data collected by the Tabula Muris Consortium. The object contains counts for 23,341 genes in 70,118 cells.

Usage

```
TabulaMurisDroplet(metadata = FALSE)
```

Arguments

metadata Logical, whether only metadata should be returned

Format

SingleCellExperiment

Value

Returns a SingleCellExperiment object.

Author(s)

Charlotte Soneson

References

The Tabula Muris Consortium: Single-cell transcriptomics of 20 mouse organs creates a *Tabula Muris*. Nature doi:10.1038/s41586-018-0590-4 (2018).

Examples

```
TabulaMurisDroplet(metadata = FALSE)
```

```
TabulaMurisSmartSeq2  Tabula Muris SmartSeq2 data
```

Description

Read counts from the SmartSeq2 (on FACS-sorted cells) single-cell RNA-seq data collected by the Tabula Muris Consortium. The object contains counts for 23,433 features (23,341 genes and 92 ERCC spike-ins) in 53,760 cells.

Usage

```
TabulaMurisSmartSeq2(metadata = FALSE)
```

Arguments

metadata Logical, whether only metadata should be returned

Format

SingleCellExperiment

Value

Returns a SingleCellExperiment object.

Author(s)

Charlotte Soneson

References

The Tabula Muris Consortium: Single-cell transcriptomics of 20 mouse organs creates a *Tabula Muris*. Nature doi:10.1038/s41586-018-0590-4 (2018).

Examples

```
TabulaMurisSmartSeq2(metadata = FALSE)
```

Index

* datasets

TabulaMurisDroplet, [2](#)

TabulaMurisSmartSeq2, [3](#)

TabulaMurisData, [2](#)

TabulaMurisDroplet, [2](#)

TabulaMurisSmartSeq2, [3](#)