Package 'scRNAseq'

April 13, 2017

r
Title A Collection of Public Single-Cell RNA-Seq Datasets
Version 1.0.0
Date 2016-05-25
Author Davide Risso [aut, cre, cph], Michael Cole [aut]
Maintainer Davide Risso <risso.davide@gmail.com></risso.davide@gmail.com>
Description Gene-level read counts of three public scRNA-seq datasets. See vignette for details.
License CC0
NeedsCompilation no
Depends R (>= 3.3), SummarizedExperiment
Suggests BiocStyle, knitr, rmarkdown
VignetteBuilder knitr
Encoding UTF-8
biocViews ExperimentData, ExpressionData, SequencingData, RNASeqData
R topics documented:
scRNAseq-package
Index 3
scRNAseq-package A Collection of Public Single-Cell RNA-Seq Datasets

Description

Gene-level read counts of three public scRNA-seq datasets. See vignette for details.

2 scRNAseq-package

Details

This package contains a collection of three publicly available single-cell RNA-seq datasets.

The dataset fluidigm contains 65 cells from Pollen et al. (2014), each sequenced at high and low coverage.

The dataset th2 contains 96 T helper cells from Mahata et al. (2014).

The dataset allen contains 379 cells from the mouse visual cortex. This is a subset of the data published in Tasic et al. (2016).

See the package vignette for details on the pre-processing of the data.

Author(s)

Davide Risso [aut, cre, cph], Michael Cole [aut]

Maintainer: Davide Risso <risso.davide@gmail.com>

References

Pollen, Nowakowski, Shuga, Wang, Leyrat, Lui, Li, Szpankowski, Fowler, Chen, Ramalingam, Sun, Thu, Norris, Lebofsky, Toppani, Kemp II, Wong, Clerkson, Jones, Wu, Knutsson, Alvarado, Wang, Weaver, May, Jones, Unger, Kriegstein, West. Low-coverage single-cell mRNA sequencing reveals cellular heterogeneity and activated signaling pathways in developing cerebral cortex. Nature Biotechnology, 32, 1053-1058 (2014).

Mahata, Zhang, Kolodziejczyk, Proserpio, Haim-Vilmovsky, Taylor, Hebenstreit, Dingler, Moignard, Gottgens, Arlt, McKenzie, Teichmann. Single-Cell RNA Sequencing Reveals T Helper Cells Synthesizing Steroids De Novo to Contribute to Immune Homeostasis. Cell Reports, 7(4): 1130–1142 (2014).

Tasic, Menon, Nguyen, Kim, Jarsky, Yao, Levi, Gray, Sorensen, Dolbeare, Bertagnolli, Goldy, Shapovalova, Parry, Lee, Smith, Bernard, Madisen, Sunkin, Hawrylycz, Koch, Zeng. Adult mouse cortical cell taxonomy revealed by single cell transcriptomics. Nature Neuroscience, 19, 335–346 (2016).

Index

```
allen (scRNAseq-package), 1
fluidigm (scRNAseq-package), 1
scRNAseq (scRNAseq-package), 1
scRNAseq-package, 1
th2 (scRNAseq-package), 1
```