

Package ‘SpatialDatasets’

April 25, 2024

Version 1.1.0

Title Collection of spatial omics datasets

Description This is a collection of publically available spatial omics datasets. Where possible we have curated these datasets as either SpatialExperiments, MoleculeExperiments or CytoImageLists and included annotations of the sample characteristics.

URL <https://github.com/SydneyBioX/SpatialDatasets>

BugReports <https://github.com/SydneyBioX/SpatialDatasets/issues>

License GPL-3

Encoding UTF-8

biocViews ExperimentData, ExperimentHub, ReproducibleResearch, SingleCellData, SpatialData, Homo_sapiens_Data, Mus_musculus_Data

Depends ExperimentHub, SpatialExperiment,

Imports utils

VignetteBuilder knitr

Suggests BiocStyle, knitr, rmarkdown

RoxygenNote 7.2.3

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

git_branch devel

git_last_commit 1d24d12

git_last_commit_date 2023-10-24

Repository Bioconductor 3.19

Date/Publication 2024-04-25

Author Farhan Ameen [aut],
Nick Robertson [aut],
Alex Qin [aut],
Elijah Willie [aut],
Ellis Patrick [aut, cre]

Maintainer Ellis Patrick <ellis.patrick@sydney.edu.au>

Contents

SpatialDatasets	2
Index	3

SpatialDatasets	<i>A collection of publically available spatial omics datasets.</i>
-----------------	---

Description

This is a collection of publically available spatial omics datasets. Where possible we have curated these datasets as either SpatialExperiments, MoleculeExperiments or CytoImageLists and included annotations of the sample characteristics.

Details

The SpatialDatasets package contains a collection of spatially-resolved omics datasets for use in examples, demonstrations, and tutorials.

The datasets are from several different platforms including IMC, MIBI-TOF, Xenium, CosMx and MERFISH. They have been sourced from various publicly available sources.

Additional examples and documentation are provided in the package vignette.

Datasets

The SpatialDatasets package contains the following datasets:

- spe_Keren_2018 (MIBI-TOF): A study on triple negative breast cancer containing 40 samples measured using MIBI-TOF published by [Keren et al. (2018)](<https://doi.org/10.1016/j.cell.2018.08.039>).

Value

The datasets will be a SpatialExperiment or MoleculeExperiment.

Examples

```
# load using dataset name
spe <- spe_Keren_2018()
spe
```

Index

SpatialDatasets, [2](#)

spe_Keren_2018 (SpatialDatasets), [2](#)