

# Package ‘SpatialDatasets’

April 16, 2024

**Version** 1.0.0

**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

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

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