

Package ‘TransOmicsData’

September 23, 2025

Title A collection of trans-omics datasets across various biological systems

Version 1.5.0

Date 2024-01-29

Description Contains a collection of trans-omics datasets generated using various sequencing technologies such as RNA-seq, Mass spectrometry and ChIP-seq. Modalities include the bulk profiling of the phosphoproteome, proteome, transcriptome and epigenome. Data reflects the timecourses of different developmental systems from the mouse or human.

Imports S4Vectors, utils

License GPL-3 + file LICENSE

BugReports <https://support.bioconductor.org/t/TransOmicsData>

URL <https://github.com/PYangLab/TransOmicsData>

VignetteBuilder knitr

Suggests BiocStyle, knitr, rmarkdown, RefManageR, sessioninfo, testthat, ExperimentHub

biocViews ExperimentHub, MassSpectrometryData, RNASeqData, ChIPSeqData, Tissue, SequencingData

Encoding UTF-8

LazyData false

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.1

Config/testthat/edition 3

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

git_branch devel

git_last_commit ca84eb3

git_last_commit_date 2025-04-15

Repository Bioconductor 3.22

Date/Publication 2025-09-23

Author Carissa Chen [aut] (ORCID: <<https://orcid.org/0000-0003-2419-7840>>),
Di Xiao [aut, cre] (ORCID: <<https://orcid.org/0000-0002-9225-7086>>),
Pengyi Yang [aut] (ORCID: <<https://orcid.org/0000-0003-1098-3138>>)

Maintainer Di Xiao <d.xiao@sydney.edu.au>

Contents

listDatasets	2
Index	3

listDatasets	<i>List all datasets</i>
--------------	--------------------------

Description

This lists the summary information for all available datasets in the **TransOmicsData** package.

Usage

```
listDatasets()
```

Details

This package contains datasets spanning various biological contexts such as in vitro embryonic and tissue-specific development in mouse and human extracted from different sequencing technologies.

Value

A [DataFrame](#), containing the following fields

- Title, short name of this data.
- Description, description of the data.
- Omics, omic layers profiled in the data.
- Species, species of the data.
- RDataPath, the corresponding rds files in this package.

Author(s)

Carissa Chen

Examples

```
listDatasets()
```

Index

DataFrame, [2](#)

listDatasets, [2](#)