

Package ‘biotmleData’

March 6, 2025

Title Example experimental microarray data set for the ``biotmle" R package

Version 1.31.0

Description Microarray data (from the Illumina Ref-8 BeadChips platform) and phenotype-level data from an epidemiological investigation of benzene exposure, packaged using ``SummarizedExperiment", for use as an example with the ``biotmle" R package.

Depends R (>= 3.0)

Suggests Biobase, SummarizedExperiment

License file LICENSE

Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

biocViews GeneExpression, DifferentialExpression, Sequencing, Microarray, RNASeq

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

git_branch devel

git_last_commit 6da33db

git_last_commit_date 2024-10-29

Repository Bioconductor 3.21

Date/Publication 2025-03-06

Author Nima Hejazi [aut, cre]

Maintainer Nima Hejazi <nhejazi@berkeley.edu>

Contents

biomarkerTMLEout	2
illuminaData	2
rnaseqTMLEout	3

Index	4
--------------	----------

biomarkerTMLEout	<i>Results obtained from running biomarkertmle on the "illuminaData" sample data</i>
------------------	--

Description

Example results obtained from running the TMLE-based estimation procedure on the example data included with this package (illuminaData).

Usage

```
biomarkerTMLEout
```

Format

A `biotmle` object containing the results of running `biomarkertmle`.

These results are included here for the sake of making the vignettes build more quickly. The user will likely not benefit from using this data set.

Value

A `biotmle` object containing results from `biomarkertmle`.

illuminaData	<i>Sample baseline covariates and Illumina microarray data from a 2007 study</i>
--------------	--

Description

A dataset containing various baseline covariates and microarray expression measures from Illumina arrays used in a 2007 study.

Usage

```
illuminaData
```

Format

A `SummarizedExperiment` containing Illumina microarray data from the Ref-8 BeadChips platform in the "assay" slot and phenotype data on subjects in the "colData" slot:

This is example data to be used in testing the `biomarkertmle` procedure. Consult the vignettes for how to use this data.

Value

A `SummarizedExperiment` containing biomarkers and baseline covariates.

rnaseqTMLEout	<i>Results obtained from running biomarkertmle on simulated RNA-Seq data</i>
---------------	--

Description

Example results obtained from running the TMLE-based estimation procedure on next-generation sequencing (count) data.

Usage

rnaseqTMLEout

Format

A `biotmle` object containing the results of running `biomarkertmle`.

These results are included here for the sake of making the vignettes build more quickly. The user will likely not benefit from using this data set.

Value

A `biotmle` object containing results from `biomarkertmle`.

Index

* datasets

biomarkerTMLEout, 2

illuminaData, 2

rnaseqTMLEout, 3

biomarkerTMLEout, 2

illuminaData, 2

rnaseqTMLEout, 3