Package 'biotmleData'

July 15, 2025

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

Version 1.32.0

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

Depends R (>= 3.0)

Suggests Biobase, SummarizedExperiment

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Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

biocViews GeneExpression, DifferentialExpression, Sequencing,
Microarray, RNASeq

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| biomarkerTMLEout | *Results obtained from running biomarkertmle on the "illuminaData" sample data* |

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 | *Sample baseline covariates and Illumina microarray data from a 2007 study* |

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.

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rnaseqTMLEout	*Results obtained from running biomarkertmle on simulated RNA-Seq data*

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`.

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