Package 'brgedata'

November 10, 2026

Title Exposures, Gene Expression and Methylation data for ilustration purpouses

Version 1.34.0

Description This package contains several sets of omics data including Gene Expression (ExpressionSet), Methylation (GenomicRatioSet), Proteome and Exposome (ExposomeSet). This data is used in vignettes and exaples at MEAL, MultiDataSet and omicRexposome.

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Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

VignetteBuilder knitr

Depends R (>= 3.4), Biobase

Imports SummarizedExperiment

Suggests minfi, MultiAssayExperiment, knitr, rmarkdown, rexposome, BiocStyle

biocViews ExperimentData,Homo_sapiens_Data,MicroarrayData,MethylationArrayData

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`brgedata` *brgedata*

Description

brgedata

`brge_expo` `ExposomeSet` *for testing purpouses*

Description

`ExposomeSet` with full set of 15 exposures grouped in 3 families for 110 individuals.

Usage

```
data("brge_expo")
```

Format

An object of class `ExposomeSet` of dimension 15 x 110 x 6.

Value

An `ExposomeSet` object.

brge_gexp ExpressionSet *for testing purpouses*

Description

ExpressionSet with full set of 67528 features from Affymetrix HTA 2.0 for 100 simulated samples.

Usage

```
data("brge_gexp")
```

Format

An object of class ExpressionSet with 67528 rows and 100 columns.

Value

An ExpressionSet object.

Examples

```
data("brge_gexp")
dim(brge_gexp)
sampleNames(brge_gexp)
```

brge_methy GenomicRatioSet *for testing purpouses*

Description

GenomicRatioSet with 476946 features from Illumina 450k methylation array and 115 simulated samples.

Usage

```
data("brge_methy")
```

Format

An object of class GenomicRatioSet with 476946 rows and 20 columns.

Value

An GenomicRatioSet object.

Examples

```
data("brge_methy")
dim(brge_methy)
sampleNames(brge_methy)
```

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brge_prot ExpressionSet *for testing purpouses*

Description

ExpressionSet with full set of 47 proteines for 90 simulated samples.

Usage

```
data("brge_prot")
```

Format

An object of class ExpressionSet with 47 rows and 90 columns.

Value

An ExpressionSet object.

Examples

```
data("brge_prot")
dim(brge_prot)
sampleNames(brge_prot)
```

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