

Package ‘COPDSexualDimorphism.data’

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Type Package

Title Data to support sexually dimorphic and COPD differential analysis for gene expression and methylation.

Version 1.47.0

Date 2013-10-14

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Description Datasets to support COPDSexualDimorphism Package.

License LGPL-2.1

LazyLoad yes

biocViews ExperimentData, Tissue, COPDData

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COPDSexualDimorphism-package

Data for Sexual Dimorphic and COPD Differential Analysis

Description

Data package to accompany the Package COPDSexualDimorphism.

Details

Package: COPDSexualDimorphism.data
Type: Package
Version: 1.0
Date: 2013-10-14
License: LGPL-2.1

Along with the method package COPDSexualDimorphism, this data package is to accompany the paper "Integrative Genomics of Sexual Dimorphism in COPD" by Sathirapongsasuti et al.

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References

Sathirapongsasuti JF, Glass K, Huttenhower C, Quackenbush J, DeMeo DL. Integrative Genomics of Sexual Dimorphism in COPD. (In Prep).

www.lung-genomics.org

Examples

```
data(lgrc.expr.meta)
data(lgrc.expr)
data(lgrc.genes)
```

Description

Gene expression and methylation data from the Lung Genomics Research Consortium. These are from whole lungs of patients with and without COPD. Preprocessing, normalization, batch effect correction, and quality control steps are described in Sathirapongsasuti et al. Three types of data are available: gene expression (`lgrc.expr` and `lgrc.expr.meta`), methylation (`lgrc.methp`), and eQTL (`lgrc.eqtl`). `lgrc.genes` are the information about genes in `lgrc.expr` as given by BiomaRt. The data frame `eqtl` is a result of eQTL analysis of cis SNPs within 100kb upstream and 10kb downstream of the SDCD genes. It is the full list of eQTL results and are to be filtered further through `sdcd.core` function as shown in the vignette.

Usage

```
data(lgrc.expr)
```

Format

The format is: num [1:14557, 1:229] 10.45 1.88 12 9.02 8.81 ... - attr(*, "dimnames")=List of 2 ..\$: chr [1:14557] "ENSG00000000003" "ENSG00000000005" "ENSG000000000419" "ENSG000000000457"\$: chr [1:229] "LT001098RU_COPD" "LT001796RU_CTRL" "LT005419RU_COPD" "LT007392RU_COPD" ...

Source

www.lung-genomics.org

References

Sathirapongsasuti JF, Glass K, Huttenhower C, Quackenbush J, DeMeo DL. Integrative Genomics of Sexual Dimorphism in COPD. (In Prep).

Examples

```
data(lgrc.meta)
head(meta)

data(lgrc.expr)
data(lgrc.expr.meta)
dim(expr)
dim(expr.meta)
head(expr.meta)

data(lgrc.methp)
dim(methp)

data(lgrc.eqtl)
```

`dim(eqt1)`

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