Package: canvasXpress.data (via r-universe)

August 21, 2024

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Version 1.34.2
Title Datasets for the 'canvasXpress' Package
Description Contains the prepared data that is needed for the 'shiny' application examples in the 'canvasXpress' package. This package also includes datasets used for automated 'testthat' tests. Scotto L, Narayan G, Nandula SV, Arias-Pulido H et al. (2008) <doi:10.1002 gcc.20577="">. Davis S, Meltzer PS (2007) <doi:10.1093 bioinformatics="" btm254="">.</doi:10.1093></doi:10.1002>
Type Package
License GPL-3
Encoding UTF-8
Language en-US
<pre>URL https://github.com/neuhausi/canvasXpress.data</pre>
BugReports https://github.com/neuhausi/canvasXpress.data/issues
Depends R (>= 3.5)
Suggests dplyr, tibble, tidyr, usethis
LazyData true
RoxygenNote 7.1.1
Repository https://neuhausi.r-universe.dev
RemoteUrl https://github.com/neuhausi/canvasxpress.data
RemoteRef HEAD
RemoteSha 3ec51896e67ac8a511301235354a3dce8cc2545c
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canvasXpress.data

canvasXpress datasets

Description

This package contains data used and referenced in the canvasXpress R package

get_data

Get the file handle for given file in the package

Description

Get the file handle for given file in the package

Usage

```
get_data(file_name)
```

Arguments

file_name

the file name to retrieve (from the extdata folder)

Value

File handle to the given file or "" if it does not exist

Examples

```
sannot_file <- get_data("network_compact.tsv")
# then read the file, for example:
# data <- read.delim(sannot_file)
# head(data)</pre>
```

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GSE9750_expression

Gene Expression Dataset - Cervical Cancer (expression values)

Description

This example dataset is taken from the below referenced study. That study was aimed at identification of gene expression profiles in cervical cancer and the role of specific genes in cervical carcinogenesis.

This dataset was prepared for visualization by retrieving the gene expression values that follow the source data header information and moving the ID column to the rownames. This allows the storage and processing of the large numeric data as a matrix instead of a data frame for efficiency while retaining the ability to join it to the sample annotations and gene information.

Usage

GSE9750_expression

Format

A numeric matrix containing gene expression data

References

Scotto L, Narayan G, Nandula SV, Arias-Pulido H et al. Identification of copy number gain and overexpressed genes on chromosome arm 20q by an integrative genomic approach in cervical cancer: potential role in progression. Genes Chromosomes Cancer 2008 Sep; 47(9):755-65. PMID: 18506748

GSE9750_gene_details Gene Expression Dataset - Cervical Cancer (gene details)

Description

This example dataset is the gene information for genes present in the GSE9750 study referenced below. The data was retrieved from the GEOquery package referenced below.

This dataset was prepared for visualization by renaming the columns and subsetting to only the information necessary for visualization. The Symbol and Description fields were also cleaned and prepared.

Usage

GSE9750_gene_details

Format

A dataframe containing gene metadata for the GSE9750 study

References

Davis, S. and Meltzer, P. S. GEOquery: a bridge between the Gene Expression Omnibus (GEO) and BioConductor. Bioinformatics, 2007, 14, 1846-1847

Scotto L, Narayan G, Nandula SV, Arias-Pulido H et al. Identification of copy number gain and overexpressed genes on chromosome arm 20q by an integrative genomic approach in cervical cancer: potential role in progression. Genes Chromosomes Cancer 2008 Sep; 47(9):755-65. PMID: 18506748

GSE9750_sample_annot Gene Expression Dataset - Cervical Cancer (sample annotation)

Description

This example dataset is taken from the below referenced study. That study was aimed at identification of gene expression profiles in cervical cancer and the role of specific genes in cervical carcinogenesis.

This dataset was prepared for visualization by retrieving the sample characteristics from the original data file header. This was followed by reshaping and removal of special characters from the column headers. The data was further refined through dividing combined data and cleaning to create consistent values across samples before subsetting to extract the sample annotations of interest and binning the Age.

Usage

GSE9750_sample_annot

Format

A dataframe containing prepared sample annotation data

References

Scotto L, Narayan G, Nandula SV, Arias-Pulido H et al. Identification of copy number gain and overexpressed genes on chromosome arm 20q by an integrative genomic approach in cervical cancer: potential role in progression. Genes Chromosomes Cancer 2008 Sep; 47(9):755-65. PMID: 18506748

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