Package 'HarmonizedTCGAData'

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Type Package
Title Processed Harmonized TCGA Data of Five Selected Cancer Types
Version 1.6.0
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Description This package contains the processed harmonized TCGA data of five cancer types used in ``Tianle Ma and Aidong Zhang, Integrate Multi-omic Data Using Affinity Network Fusion (ANF) for Cancer Patient Clustering".
License GPL-3
Imports ExperimentHub
Depends R (>= $3.4.0$)
VignetteBuilder knitr
Suggests AnnotationHub, knitr, rmarkdown, igraph, survival, ANF, stats, testthat
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HarmonizedTCGAData HarmonizedTCGAData.

Description

HarmonizedTCGAData.

project_ids

project_ids

Description

A named character vector: mapping case_id (i.e., patient ID) to the TCGA project ID they belong to

Usage

```
project_ids
```

Format

An object of class character of length 14551.

Examples

```
library(ExperimentHub)
eh <- ExperimentHub()
myfiles <- query(eh, "HarmonizedTCGAData")
project_ids <- myfiles[[2]]
# project_ids <- myfiles[['EH1015']]
head(project_ids)</pre>
```

surv.plot

surv.plot

Description

Patient survival information (overall survival plot data) were downloaded from https://portal.gdc.cancer.gov/exploration? For detailed information: see section "Survival analysis" in https://docs.gdc.cancer.gov/Data_Portal_PDF/Data_Portal_Udocs.gdc.cancer.gov/Data_Portal_PDF/Data_Portal_Udocs.gdc.cancer.gov/Data_Portal_PDF/Data_Portal_Udocs.gdc.cancer.gov/Data_Portal_PDF/Data_Portal_Udocs.gdc.cancer.gov/Data_Portal_PDF/Data_Portal_Udocs.gdc.cancer.gov/Data_Portal_PDF/Data_Portal_Udocs.gdc.cancer.gov/Data_Portal_PDF/Data_Portal_Udocs.gdc.cancer.gov/Data_Portal_PDF/Data_Portal_Udocs.gdc.cancer.gov/Data_Portal_PDF/Data_Portal_Udocs.gdc.cancer.gov/Data_Portal_PDF/Data_Portal_Udocs.gdc.cancer.gov/Data_Portal_PDF/Data_Portal_Udocs.gdc.cancer.gov/Data_Portal_PDF/Data_Portal_Udocs.gdc.cancer.gov/Data_Portal_PDF/Data_Portal_PDF/Data_Portal_PDF/Data_Portal_PDF/Data_Portal_PDF/Data_Portal_PDF/Data_POrtal_PDF/Data_POrtal_PDF/Data_POrtal_PDF/Data_POrtal_PDF/Data_POrtal_PDF/Data_POrtal_PDF/Data_POrtal_PDF/Data_POrtal_PDF/Data_POrtal_PDF/Data_POrtal_PDF/Data_POrtal_PDF/Data_POrtal_PDF/Data_POrtal_PDF/Data_POrtal_PDF/Data_POrtal_PDF/Data_POrtal_PDF/Data_POrtal_PDF/Data_POrtal_PDF/Data_POrtal_PDF/Data_PDF/D

Usage

```
surv.plot
```

Format

A data frame with four variables: survivalEstimate, id, censored, and time

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Examples

```
library(ExperimentHub)
eh <- ExperimentHub()
myfiles <- query(eh, "HarmonizedTCGAData")
surv.plot <- myfiles[[3]]
# surv.plot <- myfiles[['EH1016']]
head(surv.plot)</pre>
```

Wall

Wall

Description

Wall contains a list of precomputed affinity (similarity) matrices of 2582 patients. These matrices were derived from 10382 gene expression, miRNA expression and DNA methylation data files downloaded from GDC data portal The file UUIDs can be found in inst/extdata/fileUUIDs.csv Using these file UUIDs, users can download the original data from https://portal.gdc.cancer.gov/repository 'Wall' is a complex list and contains lists inside list. Precisely, Wall is a list (five cancer types) of list (six feature normalization types: raw.all, raw.sel, log.all, log.sel, vst.sel, normalized) of list (three feature spaces or views: fpkm, mirna, and methy450) of matrices. (So Wall contains 90 matrices in total) The rownames of each matrix is the case_id (i.e., patient id), and the column names of each matrix is the aliquot IDs (i.e., TCGA barcode, which contains the case_id as prefix).

Usage

Wall

Format

An object of class list of length 5.

Examples

```
library(ExperimentHub)
eh <- ExperimentHub()
myfiles <- query(eh, "HarmonizedTCGAData")
Wall <- myfiles[[1]]
# Wall <- myfiles[['EH1014']]
names(Wall)
names(Wall[[1]])
dim(Wall[[1]][[1]])</pre>
```

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