

Package ‘HarmonizedTCGAData’

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Type Package

Title Processed Harmonized TCGA Data of Five Selected Cancer Types

Version 1.32.0

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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".

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Imports ExperimentHub

Depends R (>= 3.4.0)

VignetteBuilder knitr

Suggests AnnotationHub, knitr, rmarkdown, igraph, survival, ANF, stats, testthat

biocViews CancerData, ReproducibleResearch

RoxygenNote 6.0.1

LazyData true

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Description

HarmonizedTCGAData.

project_ids	<i>project_ids</i>
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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)
```

surv.plot	<i>surv.plot</i>
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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_U

Usage

```
surv.plot
```

Format

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

Examples

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

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]])
names(Wall[[1]][[1]])
dim(Wall[[1]][[1]][[1]])
```

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