

Package ‘TCGAbiolinksGUI.data’

October 17, 2019

Title Data for the TCGAbiolinksGUI package

Version 1.4.0

Author Tiago Chedraoui Silva

Maintainer Tiago Chedraoui Silva <tiagochst@usp.br>

Description Supporting data for the TCGAbiolinksGUI package.

It includes the following objects: glioma.gcimp.model, glioma.idhwt.model
glioma.idhmut.model, glioma.idh.mode, probes2rm, maf.tumor, GDCdisease.

License GPL-3

LazyData false

Depends R (>= 3.5.0)

Suggests BiocStyle, knitr, readr, readxl, dplyr, caret, randomForest,
doMC, e1071, DT

biocViews AssayDomainData, TechnologyData, OrganismData

URL <https://github.com/BioinformaticsFMRP/TCGAbiolinksGUI.data>

BugReports <https://github.com/BioinformaticsFMRP/TCGAbiolinksGUI.data/issues>

VignetteBuilder knitr

RoxygenNote 6.0.1

git_url <https://git.bioconductor.org/packages/TCGAbiolinksGUI.data>

git_branch RELEASE_3_9

git_last_commit 34f5b51

git_last_commit_date 2019-05-02

Date/Publication 2019-10-17

R topics documented:

GDCdisease	2
glioma.gcimp.model	2
glioma.idh.model	3
glioma.idhmut.model	3
glioma.idhwt.model	4
maf.tumor	4
probes2rm	5
TCGAbiolinksGUI.data	5

Index	6
--------------	----------

GDCdisease

GDC projects

Description

Contains all GDC projects with open data

Usage

```
data("GDCdisease")
```

Format

A named list with 39 projects

Source

Retrieved from GDC API

glioma.gcimp.model

gcimp RF model

Description

A RF model able to classify DNA methylation samples in to GCIMP groups

Usage

```
data("glioma.gcimp.model")
```

Format

A random forest model with 276 samples and 145 predictors classifying into 3 classes

Source

RF model created from DNA methylation signatures retrieved from [www.cell.com/cell/abstract/S0092-8674\(15\)01692-X](http://www.cell.com/cell/abstract/S0092-8674(15)01692-X)

`glioma.idh.model` *IDH RF model*

Description

A RF model able to classify DNA methylation samples in to IDH groups

Usage

```
data("glioma.idh.model")
```

Format

A random forest model with 880 samples and 1205 predictors classifying into 6 classes

Source

RF model created from DNA methylation signatures retrieved from [www.cell.com/cell/abstract/S0092-8674\(15\)01692-X](http://www.cell.com/cell/abstract/S0092-8674(15)01692-X)

`glioma.idhmut.model` *IDHmut RF model*

Description

A RF model able to classify DNA methylation samples in to IDHmut groups

Usage

```
data("glioma.idhmut.model")
```

Format

A random forest model with 450 samples and 1216 predictors classifying into 3 classes

Source

RF model created from DNA methylation signatures retrieved from [www.cell.com/cell/abstract/S0092-8674\(15\)01692-X](http://www.cell.com/cell/abstract/S0092-8674(15)01692-X)

glioma.idhwt.model	<i>IDHwt RF model</i>
--------------------	-----------------------

Description

A RF model able to classify DNA methylation samples in to IDHwt groups

Usage

```
data("glioma.idhwt.model")
```

Format

A random forest model with 430 samples and 843 predictors classifying into 3 classes

Source

RF model created from DNA methylation signatures retrieved from [www.cell.com/cell/abstract/S0092-8674\(15\)01692-X](http://www.cell.com/cell/abstract/S0092-8674(15)01692-X)

maf.tumor	<i>GDC open MAF files</i>
-----------	---------------------------

Description

Contains the list of GDC project with open MAF files available

Usage

```
data(maf.tumor)
```

Format

A named list with 33 tumors

Source

https://gdc-docs.nci.nih.gov/Data/Release_Notes/Manifests/GDC_open_MAFs_manifest.txt

 probes2rm

EPIC probes removed from newer versions

Description

EPIC probes removed from newer versions that should not be used in the analysis

Usage

```
data("probes2rm")
```

Format

A list with 977 probes

Source

<https://support.illumina.com/downloads/infinium-methylationepic-v1-0-product-files.html>

 TCGAbiolinksGUI.data

Auxiliary data for TCGAbiolinksGUI package.

Description

Package: TCGAbiolinksGUI.data provide the necessary data for TCGAbiolinksGUI glioma classifier menu. It includes the following objects:

glioma.gcimp.model A train model for GCIMP DNA methylation signatures.

glioma.idhwt.model A train model for IDHwt DNA methylation signatures

glioma.idhmut.model A train model for IDHmut DNA methylation signatures

glioma.idh.model A train model for IDH DNA methylation signatures

probes2rm List of probes that should be removed from EPIC array due to different versions of the platform.

Source: <https://support.illumina.com/downloads/infinium-methylationepic-v1-0-product-files.html>

maf.tumor TCGA projects with open MAF files retrieved from the NCI's Genomic Data Commons (GDC).

Source: https://gdc-docs.nci.nih.gov/Data/Release_Notes/Manifests/GDC_open_MAFs_manifest.txt

GDCdisease The NCI's Genomic Data Commons (GDC) projects list

Index

*Topic **datasets**

- GDCdisease, [2](#)
- glioma.gcimp.model, [2](#)
- glioma.idh.model, [3](#)
- glioma.idhmut.model, [3](#)
- glioma.idhwt.model, [4](#)
- maf.tumor, [4](#)
- probes2rm, [5](#)

*Topic **utilities**

- TCGAbiolinksGUI.data, [5](#)

GDCdisease, [2](#), [5](#)

glioma.gcimp.model, [2](#), [5](#)

glioma.idh.model, [3](#), [5](#)

glioma.idhmut.model, [3](#), [5](#)

glioma.idhwt.model, [4](#), [5](#)

maf.tumor, [4](#), [5](#)

probes2rm, [5](#), [5](#)

TCGAbiolinksGUI.data, [5](#)

TCGAbiolinksGUI.data-package
(TCGAbiolinksGUI.data), [5](#)