

Package ‘MetaGxPancreas’

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Title Transcriptomic Pancreatic Cancer Datasets

Version 1.31.0

Description A collection of pancreatic Cancer transcriptomic datasets that are part of the MetaGxData package compendium. This package contains multiple pancreas cancer datasets that have been downloaded from various resources and turned into SummarizedExperiment objects. The details of how the authors normalized the data can be found in the experiment data section of the objects. Additionally, the location the data was obtained from can be found in the url variables of the experiment data portion of each SE.

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Encoding UTF-8

Depends SummarizedExperiment, ExperimentHub, R (>= 3.6.0)

Imports stats, impute, S4Vectors, AnnotationHub

Suggests testthat, knitr, BiocStyle, rmarkdown, markdown

VignetteBuilder knitr

biocViews ExpressionData, ExperimentHub, CancerData,
Homo_sapiens_Data, ArrayExpress, GEO, NCI, MicroarrayData,
ExperimentData, SequencingData

LazyData yes

RoxygenNote 7.1.1

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loadPancreasDatasets	<i>Function to load pancreas cancer expression profiles from the Experiment Hub</i>
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Description

This function returns pancreas cancer patient cohorts in SummarizedExperiment object from the hub and a vector of patients from the datasets that are duplicates

Usage

```
loadPancreasDatasets(
  removeDuplicates = TRUE,
  quantileCutoff = 0,
  rescale = FALSE,
  minNumberGenes = NA,
  minSampleSize = NA,
  minNumberEvents = NA,
  removeSeqSubset = FALSE,
  keepCommonOnly = FALSE,
  imputeMissing = FALSE
)
```

Arguments

<code>removeDuplicates</code>	remove patients with a Spearman correlation greater than or equal to 0.98 with other patient expression profiles (default TRUE)
<code>quantileCutoff</code>	A numeric between 0 and 1 specifying to remove genes with standard deviation below the required quantile (default 0)
<code>rescale</code>	apply centering and scaling to the expression sets (default FALSE)
<code>minNumberGenes</code>	an integer specifying to remove expression sets with less genes than this number (default 0)
<code>minSampleSize</code>	an integer specifying the minimum number of patients required in an SE (default 0)
<code>minNumberEvents</code>	an integer specifying how many survival events must be in the dataset to keep the dataset (default 0)
<code>removeSeqSubset</code>	currently only removes the ICGSSEQ dataset as it contains the same patients as the ICGS microarray dataset (default TRUE, currently just ICGSSEQ)

```
keepCommonOnly  remove probes not common to all datasets (default FALSE)
imputeMissing   impute missing expression value via knn
```

Value

a list with two elements. The First element named `SummarizedExperiments` contains the datasets as Bioconductor `SummarizedExperiment` objects. The second element named `duplicates` contains a vector with patient IDs for the duplicate patients (those with Spearman correlation greater than or equal to 0.98 with other patient expression profiles).

Examples

```
sumExptsAndDuplicates <- loadPancreasDatasets()
```

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