Package ‘healthyControlsPresenceChecker’

May 7, 2026

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Title Dowloads A Gene Expression Dataset From GEO And Checks If It Contains Data Of Healthy Controls Or Not

Version 1.17.0

Description A function that reads in the GEO accession code of a gene expression dataset, retrieves its data from GEO, and checks if data of healthy controls are present in the dataset. It returns true if healthy controls data are found, and false otherwise. GEO: Gene Expression Omnibus. ID: identifier code. The GEO datasets are downloaded from the URL <`https://ftp.ncbi.nlm.nih.gov/geo/series/`>.

BugReports `https://github.com/davidechicco/healthyControlsPresenceChecker/issues`

Depends R (>= 4.0.0)

License GPL-3

URL `https://github.com/davidechicco/healthyControlsPresenceChecker`

biocViews GEO, RepositoryData, ExpressionData

Imports xml2, GEOquery, geneExpressionFromGEO, magrittr

Suggests RUnit, BiocGenerics, markdown, BiocStyle, knitr, rmarkdown

VignetteBuilder knitr

RoxygenNote 7.1.1

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`healthyControlsCheck` *Function that reads in the GEO code of a dataset, and returns true if there's at least a feature containing the healthy controls.*

Description

Function that reads in the GEO code of a dataset, and returns true if there's at least a feature containing the healthy controls.

Usage

```
healthyControlsCheck(datasetGeoCode, verbose = FALSE)
```

Arguments

`datasetGeoCode`	the GEO code of a dataset.
`verbose`	a boolean flag stating if helping messages should be printed or not

Value

a boolean value

Examples

```
healthyControlsCheckOutcome <- healthyControlsCheck("GSE3268", FALSE)
```

`healthyControlsChecker` *healthyControlsChecker: A package for verifying the presence of healthy controls in a GEO dataset*

Description

The healthyControlsChecker package provides one relevant function: healthyControlsCheck()

healthyControlsCheck() function

The healthyControlsCheck() function readsin the GEO code of a dataset, and returns true if there's at least a feature containing the healthy controls.

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