Package ‘GEOexplorer’

March 6, 2024

Title GEOexplorer: a webserver for gene expression analysis and visualisation

Date 2023/10/19

Version 1.8.0

Description GEOexplorer is a webserver and R/Bioconductor package and web application that enables users to perform gene expression analysis. The development of GEOexplorer was made possible because of the excellent code provided by GEO2R (https://www.ncbi.nlm.nih.gov/geo/geo2r/).

License GPL-3

Encoding UTF-8

LazyData false

Roxygen list(markdown = TRUE)

URL https://github.com/guypwhunt/GEOexplorer/

BugReports https://github.com/guypwhunt/GEOexplorer/issues

RoxygenNote 7.2.3

biocViews Software, GeneExpression, mRNAMicroarray, DifferentialExpression, Microarray, MicroRNAArray, Transcriptomics, RNASeq

Depends shiny, limma, Biobase, plotly, enrichR, R (>= 4.1.0)

Imports DT, XML, httr, sva, xfun, edgeR, htmltools, factoeextra, heatmaply, pheatmap, scales, shinyHeatmaply, shinybusy, ggplot2, stringr, umap, GEOquery, impute, grDevices, stats, graphics, markdown, knitr, utils, xml2, R.utils, readxl, shinycssloaders, car

Suggests rmarkdown, usethis, testthat (>= 3.0.0)

VignetteBuilder knitr

Config/testthat/edition 3

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**loadApp**

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**Description**

This function loads the GEOexplorer Shiny App. The GEOexplorer Shiny App extends GEO2R’s functionalities by enabling a richer set of analysis and graphics to be performed/generated from the gene expression data.

**Usage**

```r
loadApp()
```

**Value**

Large Shiny App

**Author(s)**

Guy Hunt

**Examples**

```r
app <- loadApp()
```
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