Package ‘GNOSIS’

May 29, 2024

**Type** Package

**Title** Genomics explorer using statistical and survival analysis in R

**Version** 1.2.0

**Description** GNOSIS incorporates a range of R packages enabling users to efficiently explore and visualise clinical and genomic data obtained from cBioPortal. GNOSIS uses an intuitive GUI and multiple tab panels supporting a range of functionalities. These include data upload and initial exploration, data recoding and subsetting, multiple visualisations, survival analysis, statistical analysis and mutation analysis, in addition to facilitating reproducible research.

**License** MIT + file LICENSE

**Imports** DT, fontawesome, shinyCSSloaders, cBioPortalData, shinyjs, reshape2, RColorBrewer, survival, survminer, stats, compareGroups, rpart, partykit, DescTools, car, rstatix, fabricatr, shinylogs, magrittr

**Depends** R (>= 4.3.0), shiny, shinydashboard, shinydashboardPlus, dashboardthemes, shinyWidgets, shinymeta, tidyverse, operator.tools, maftools

**Suggests** BiocStyle, knitr, markdown

**biocViews** Software, ShinyApps, Survival, GUI

**BugReports** [https://github.com/Lydia-King/GNOSIS/issues](https://github.com/Lydia-King/GNOSIS/issues)

**URL** [https://github.com/Lydia-King/GNOSIS/](https://github.com/Lydia-King/GNOSIS/)

**Video** [https://doi.org/10.5281/zenodo.5788544](https://doi.org/10.5281/zenodo.5788544)

**VignetteBuilder** knitr

**Encoding** UTF-8

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.2.3

**git_url** [https://git.bioconductor.org/packages/GNOSIS](https://git.bioconductor.org/packages/GNOSIS)

**git_branch** RELEASE_3_19

**git_last_commit** bed2478
# Initialise GNOSIS

The shiny app will allow the user to explore and analyse clinical and copy number data uploaded manually or selected from a dataframe containing datasets available through cBioPortal.

## Usage

```r
GNOSIS(...) 
```

## Arguments

... Further arguments to the `runApp` function

## Details

Note. This shiny app is an updated version of the app published in HRB Open Research. For details on version updates see NEWS.

## Value

Mainly called for the side effect of displaying the shiny app in a browser

## Examples

```r
if (interactive()) {
  GNOSIS()
}
```
Index

GNOSIS, 2