

Package ‘GNOSIS’

December 30, 2024

Type Package

Title Genomics explorer using statistical and survival analysis in R

Version 1.5.0

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, rmarkdown

biocViews Software, ShinyApps, Survival, GUI

BugReports <https://github.com/Lydia-King/GNOSIS/issues>

URL <https://github.com/Lydia-King/GNOSIS/>

Video <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>

git_branch devel

git_last_commit 45d7820

git_last_commit_date 2024-10-29

Repository Bioconductor 3.21

Date/Publication 2024-12-30

Author Lydia King [aut, cre] (ORCID: <<https://orcid.org/0000-0002-0696-9811>>),
Marcel Ramos [ctb]

Maintainer Lydia King <l.king18@universityofgalway.ie>

Contents

GNOSIS	2
Index	3

GNOSIS	<i>#' Initialise GNOSIS</i>
--------	-----------------------------

Description

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

```
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

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

Index

GNOSIS, [2](#)