

# Package ‘GNOSIS’

November 29, 2024

**Type** Package

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

**Version** 1.4.0

**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** RELEASE\_3\_20

**git\_last\_commit** 61f751e

**git\_last\_commit\_date** 2024-10-29

**Repository** Bioconductor 3.20

**Date/Publication** 2024-11-28

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

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

## Contents

GNOSIS . . . . .	2
<b>Index</b>	<b>3</b>

---

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](#)