Package ‘Holomics’

November 15, 2025

Type Package

Title A User-Friendly R 'shiny' Application for Multi-Omics Data Integration and Analysis

Version 1.2.1

Description A 'shiny' application, which allows you to perform single- and multi-omics analyses using your own omics datasets. After the upload of the omics datasets and a metadata file, single-omics is performed for feature selection and dataset reduction. These datasets are used for pairwise- and multi-omics analyses, where automatic tuning is done to identify correlations between the datasets - the end goal of the recommended 'Holomics' workflow.
Methods used in the package were implemented in the package 'mixomics' by Florian Rohart,Benoît Gautier,Amrit Singh,Kim-Anh Lê Cao (2017) <doi:10.1371/journal.pcbi.1005752> and are described there in further detail.

License GPL (>= 3)

URL `https://github.com/MolinLab/Holomics`

BugReports `https://github.com/MolinLab/Holomics/issues`

Depends R (>= 4.0)

Imports bs4Dash (>= 2.0.2), config, dplyr, DT, ggplot2, golem, igraph, openxlsx, readxl, shiny (>= 1.6.0), shinyalert, shinybusy, shinyjs, shinyvalidate, shinyWidgets, stringr, tippy, visNetwork, mixOmics, BiocParallel

Suggests bookdown, knitr, rmarkdown, badger

VignetteBuilder knitr

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RoxygenNote 7.3.2

NeedsCompilation no

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`run_app` *Run the Shiny Application*

Description

Run the Shiny Application

Usage

```
run_app(
  onStart = NULL,
  options = list(),
  enableBookmarking = NULL,
  uiPattern = "/",
  ...
)
```

Arguments

`onStart`	A function that will be called before the app is actually run. This is only needed for `shinyAppObj`, since in the `shinyAppDir` case, a `global.R` file can be used for this purpose.
`options`	Named options that should be passed to the `runApp` call (these can be any of the following: "port", "launch.browser", "host", "quiet", "display.mode" and "test.mode"). You can also specify `width` and `height` parameters which provide a hint to the embedding environment about the ideal height/width for the app.
`enableBookmarking`	Can be one of `"url"`, `"server"`, or `"disable"`. The default value, `NULL`, will respect the setting from any previous calls to `enableBookmarking()`. See `enableBookmarking()` for more information on bookmarking your app.

`uiPattern`	A regular expression that will be applied to each `GET` request to determine whether the `ui` should be used to handle the request. Note that the entire request path must match the regular expression in order for the match to be considered successful.
`...`	arguments to pass to golem_opts. See '?golem::get_golem_options' for more details.

Value

No return value, called to start the Shiny application

Examples

```
## Not run:
# Start app in the current working directory
run_app()

## End(Not run)
```

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