Package 'NetBIDshiny'

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Type Package

Title A shiny app to assist NetBID2 master regulator analysis and visualize the results

Version 0.1.0

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Description A shiny app for assisting NetBID2 (data-driven context-specific network and Bayesian inference, version II) analysis, including the master regulator estimation and result visualization.

License file LICENSE

Encoding UTF-8

LazyData true

Depends R (>= 3.6.0),
NetBID2 (>= 0.1.2),
shiny (>= 1.2.0),
shinyjs (>= 1.0),
shinythemes (>= 1.1.2),
DT (>= 0.5),
shinyFiles (>= 0.7.3),
fs (>= 1.3.1),
V8 (>= 2.3),
zip (>= 2.0.2)

Imports

Suggests

RoxygenNote 7.1.1

R topics documented:

NetBIDshiny.run4MR	NetBIDshiny.run4MR *is a function to run a shiny app for NetBID2 master regulator identification.*

Description

NetBIDshiny.run4MR is a shiny app for NetBID2 master regulator identification and the generation of figures for top drivers with the help of two lazy functions in NetBID2, NetBID.lazyMode.DriverEstimation() and NetBID.lazyMode.DriverVisualization(). User could follow the online tutorial https://jyyulab.github.io/NetBID_shiny/ for usage.

Usage

```
NetBIDshiny.run4MR(
  search_network_path = c("Current Directory", "Home"),
  search_eSet_path = c("Current Directory", "Home"),
  project_main_dir = NULL
)
```

Arguments

search_network_path

a vector of characters, path for network data searching in the app server. User could choose from: 'Current Directory','Home','R Installation','Available Volumes', and could put user-defined server path (better use absolute path). Default is c('Current Directory','Home'). If set to NULL, only 'Current Directory' will be used.

search_eSet_path

a vector of characters, path for expressionSet class RData searching in the app server. User could choose from: 'Current Directory','Home','R Installation','Available Volumes', and could put user-defined server path (better use absolute path). Default is c('Current Directory','Home'). If set to NULL, only 'Current Directory' will be used.

project_main_dir

character, absolute path of the main working directory for driver analysis. If NULL, the server will add a new button for user to select the output directory. Default is NULL. If not NULL, there will be an additional link in the result page for downloading the zip file containing all information.

NetBIDshiny.run4Vis	NetBIDshiny.run4Vis *is a function to run a shiny app for NetBID2 result visualization.*

Description

NetBIDshiny.run4Vis is a shiny app for NetBID2 result visualization. User could follow the online tutorial https://jyyulab.github.io/NetBID_shiny/ for usage.

Usage

```
NetBIDshiny.run4Vis(
  load_data_path = NULL,
  search_path = c("Current Directory", "Home")
)
```

Arguments

load_data_path   character, path for the pre-loaded data. If NULL, will pre-load the demo dataset.

search_path   a vector of characters, path for master table Rdata searching in the app server.
                  User could choose from: 'Current Directory','Home','R Installation','Available
                  Volumes', and could put user-defined server path (better use absolute path). De-
                  fault is c('Current Directory','Home'). If set to NULL, only 'Current Directory'
                  will be used.

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