

# 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** GPL (>= 2)

**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** 6.1.1

## R topics documented:

NetBIDshiny.run4MR . . . . .	2
NetBIDshiny.run4Vis . . . . .	2

<b>Index</b>	4
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NetBIDshiny.run4MR	NetBIDshiny.run4MR is a function to run a shiny app for NetBID2 master regulator identification.
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### 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/](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.

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

NetBIDshiny.run4Vis is a shiny app for NetBID2 result visualization. User could follow the online tutorial [https://jyyulab.github.io/NetBID\\_shiny/](https://jyyulab.github.io/NetBID_shiny/) for usage.

### Usage

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

**Arguments**

`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). Default is `c('Current Directory', 'Home')`. If set to `NULL`, only 'Current Directory' will be used.

# Index

NetBIDshiny.run4MR, [2](#)  
NetBIDshiny.run4Vis, [2](#)