# Package 'dosedesignR'

April 23, 2020

**Type** Package

**Title** Interactive Designing of Dose Finding Studies

**Version** 0.2.4

**Author** F. Mendolia, K. Walkamp, K. Roth, T. Schmelter, C. Neumann, Z. Gao, A. Kaiser, S. Jeske, H. Kulmann

**Maintainer** T. Schmelter <thomas.schmelter@bayer.com>

**Description** Provides the user with an interactive application which can be used to facilitate the planning of dose finding studies by applying the theory of optimal experimental design (e.g., Ling (2006) <doi:10.1007/0-387-33706-7>).

**License** GPL

**Encoding** UTF-8

**LazyData** true

**Imports** shiny, shinyjs, ggplot2, DoseFinding, DT, lattice, latticeExtra

**Suggests** knitr, rmarkdown

**RoxygenNote** 6.1.1

**VignetteBuilder** knitr

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2020-04-23 17:10:02 UTC

## R topics documented:

---

run_dosedesignR *run_dosedesignR - Launches the Shiny application*

---

**Description**

Starts the dosedesignR application in the client's browser.

**Usage**

```
run_dosedesignR(ColorBG = "#424242", ColorText = "#828282",
  browser = getOption("shiny.launch.browser", interactive()),
  host = NULL, port = NULL)
```

**Arguments**

| | |
|---|---|
| ColorBG | background color (defaults to "#424242") |
| ColorText | text color (defaults to "#828282") |
| browser | path to browser exe (defaults to standard browser) |
| host | host link (defaults to the local machine "127.0.0.1") |
| port | port number (randomly chosen unless specified as a certain number) |

**Details**

Further information on how to use this application can be found in the vignette of this package.

**Examples**

```
if(interactive()){
## Launch application on localhost (127.0.0.1)
## -----------------------------------------
## By default run_dosedesignR starts the application on localhost
## and a randomly selected port (e.g. 9876), in which case you can connect
## to the running application by navigating your browser to
## http://localhost:9876.
run_dosedesignR()

## Launch application on a different host
## -------------------------------------
## You can also run the application on a different host
## by specifying a hostname and port. Just make sure to
## use an open port on your machine. Here "open" means
## that the port should not be used by another service
## and the port is opened by your firewall.
run_dosedesignR(host="your-hostname", port=8888)


## Make the application available to your coworkers
## -----------------------------------------------
```

```
## within your local area network even without a
## dedicated Shiny server. The value set through the
## host argument says to accept any connection (not just from localhost).
## Then take note of your local IP (if you are under linux,
## you can see it through ifconfig). Say your IP is 192.168.1.70.
## Your colleagues can use your app by inserting in the address
## bar of their browser 192.168.1.70:8888, i.e. your IP followed
## by : and the port number you selected.
run_dosedesignR(host="0.0.0.0", port=8888)

## Launch application on a different browser
## --------------------------------------
## To run the shiny app on a different browser than your standard browser
## use the "browser" argument to set the path to the respective .exe file.
runDoseDesignR(browser = "C:/Program Files/Mozilla Firefox/firefox.exe")
}
```

# Index