Package 'vici'

February 2, 2024

Title Vaccine Induced Cellular Immunogenicity with Bivariate Modeling
Version 0.7.3
Date 2024-02-02
Description A shiny app for accurate estimation of vaccine induced immunogenicity with bivariate linear modeling. Method is detailed in: Lhomme, Hejblum, Lacabaratz, Wiedemann, Lelievre, Levy, Thiebaut & Richert (2020). Journal of Immunological Methods, 477:112711. <doi:10.1016 j.jim.2019.112711="">.</doi:10.1016>
<pre>BugReports https://github.com/sistm/vici/issues</pre>
License GPL-3
Encoding UTF-8
LazyData true
Imports cowplot, DT, ggplot2, grDevices, ggpubr, nlme, shiny, stats, tidyr, utils, numDeriv, stringr, RColorBrewer, scales, shinyWidgets
Suggests testthat
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run_app

ICS_ex

Toy data to upload in the app.

Description

Toy data to upload in the app.

Usage

```
data(ICS_ex)
```

Format

A tab-separated .txt file

Examples

```
if(interactive()){
set.seed(1382019)
nsubj <- 20
ntp <- 3
nstim <- 3
narm <- 3
subj <- rep(rep(1:nsubj, each = ntp), times = nstim), times = narm)</pre>
stim \leftarrow rep(rep(c("NS", "S1", "S2"), each = nsubj*ntp), times = narm)
tp <- rep(rep(c("D0", "D1", "D3"), times=nsubj*nstim), times = narm)
a <- rep(c("Placebo", "A2", "A3"), each = nsubj*nstim*ntp)</pre>
y1 < round(abs(rnorm(n=nsubj*nstim*ntp*narm,m = 0.03, sd=0.06)) +
 (stim=="S2" & a == "A2" & tp == "D1")*abs(rnorm(n=nsubj*nstim*ntp*narm, m = 0.05, sd=0.01)), 4)
y2 <- round(abs(rnorm(n=nsubj*nstim*ntp*narm,m = 0.03, sd=0.06)) +
 (stim="S1" \& a =="A3" \& tp == "D3")*abs(rnorm(n=nsubj*nstim*ntp*narm, m = 0.1, sd=0.02)), 4)
ICS_ex <- cbind.data.frame("Subject" = subj, "StimulationPool" = stim, "TimePoint" = tp,</pre>
                              "Arm" = a, "Response1" = y1, "Response2" = y2)
#View(ICS_ex)
write.table(ICS_ex, file="Documents/GitHub/vici/data/ICS_ex.txt", sep="\t",
row.names = FALSE, quote = FALSE)
```

run_app

Launch VICI Shiny App

Description

Launch VICI Shiny App

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Usage

```
run_app(host = "127.0.0.1", port = 3838, ...)
```

Arguments

host Default is "127.0.0.1", see runApp for details.
port Default is 3838, see runApp for details.

... additional arguments to be passed to the runApp function.

Examples

```
if(interactive()){
vici::run_app()
}
```

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