

Package ‘vici’

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Title Vaccine Induced Cellular Immunogenicity with Bivariate Modeling

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Description A shiny app for accurate estimation of vaccine induced immunogenicity with bivariate linear modeling. Method is detailed in: Lhomme, Hejblum, Lacabartz, Wiedemann, Lelievre, Levy, Thiebaut & Richert (2020). Journal of Immunological Methods, 477:112711. <[doi:10.1016/j.jim.2019.112711](https://doi.org/10.1016/j.jim.2019.112711)>.

BugReports <https://github.com/sistm/vici/issues>

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Encoding UTF-8

LazyData true

Imports cowplot, DT, ggplot2, grDevices, ggpubr, nlme, shiny, stats, tidyrr, utils, numDeriv, stringr, RColorBrewer, scales, shinyWidgets

Suggests testthat

RoxygenNote 7.3.0

NeedsCompilation no

Author Boris Hejblum [cre, aut],
Melanie Huchon [aut],
Clement Nerestan [aut]

Maintainer Boris Hejblum <boris.hejblum@u-bordeaux.fr>

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Contents

ICS_ex	2
run_app	2
Index	4

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(rep(1:nsubj, each = ntp), times = nstim), times = narm)
  stim <- 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)
  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,
    "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

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()  
}
```

Index

* **data**

ICS_ex, [2](#)

ICS_ex, [2](#)

run_app, [2](#)

runApp, [3](#)