

Package ‘CyTOFpower’

March 22, 2023

Type Package

Title Power analysis for CyTOF experiments

Version 1.4.0

Description This package is a tool to predict the power of CyTOF experiments in the context of differential state analyses. The package provides a shiny app with two options to predict the power of an experiment:
i. generation of in-silico CyTOF data, using users input
ii. browsing in a grid of parameters for which the power was already precomputed.

biocViews FlowCytometry, SingleCell, CellBiology, StatisticalMethod, Software

License LGPL-3

Encoding UTF-8

Depends R (>= 4.1)

Imports CytoGLMM, diffcyt, DT, dplyr, ggplot2, magrittr, methods, rlang, stats, shiny, shinyFeedback, shinyjs, shinyMatrix, SummarizedExperiment, tibble, tidyr

RoxygenNote 7.1.2

VignetteBuilder knitr

Suggests testthat (>= 3.0.0), BiocStyle, knitr

Config/testthat/edition 3

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R topics documented:

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CyTOFpower *CyTOFpower: R-package to predict the power of a CyTOF experiment*

Description

This package provides functions and a shiny app to predict the power of a CyTOF experiment.
Interactive shiny app to predict the power of a CyTOF experiment.

Usage

```
CyTOFpower()
```

Value

Interactive shiny app.

Examples

```
# Launch the shiny app
if (interactive()) {
  CyTOFpower()
}
```

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