Package: CyTOFpower (via r-universe)

November 25, 2026

Type Package

Title Power analysis for CyTOF experiments

Version 1.20.0

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-sicilico 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

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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

Config/pak/sysreqs cmake libfontconfig1-dev libfreetype6-dev libglpk-dev make libicu-dev libpng-dev libuv1-dev libxml2-dev libssl-dev perl zlib1g-dev

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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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