Package 'flowPloidyData'

November 28, 2024

| Title Example Flow Cytometry Data |
|---|
| Version 1.32.0 |
| Author Tyler Smith <tyler@plantarum.ca></tyler@plantarum.ca> |
| Maintainer Tyler Smith <tyler@plantarum.ca></tyler@plantarum.ca> |
| Description A collection of raw flow cytometry data for use in vignettes for the flowPloidy package. |
| License GPL-3 |
| Encoding UTF-8 |
| LazyData true |
| biocViews FlowCytometryData |
| Suggests knitr, rmarkdown, flowCore |
| VignetteBuilder knitr |
| git_url https://git.bioconductor.org/packages/flowPloidyData |
| git_branch RELEASE_3_20 |
| git_last_commit c86ff0b |
| git_last_commit_date 2024-10-29 |
| Repository Bioconductor 3.20 |
| Date/Publication 2024-11-28 |
| |
| Contents |
| flowPloidyData |
| Index |
| flowPloidyData Example flow cytometry datasets from analysis of ploidy in plants. |
| |

Description

A list of LMD files from analyses of the plant leaf tissue samples, co-chopped with standards with known GC (e.g., tomato, soybean etc.).

2 flowPloidyData

Usage

```
flowPloidyFiles()
fpBad()
fpVac()
```

Format

The function flowPloidyFiles returns a vector of filenames corresponding to the LMD files provided by this package. Individual elements of this vector (e.g., flowPloidyFiles()[1] can be passed to functions that load a single FCS file, such as flowCore::read.FCS. The entire vector can be passed to functions that load multiple files, such as flowPloidy::histBatch.

Each element is named with the filename (without the path), so that you can select an individual filename either by numeric index (i.e., flowPloidyFiles()[7]) or by name (flowPloidyFiles()["248+S.LMD"]). The names aren't meaningful to you, of course! I added them to provide a more robust way to select an individual file, as the order of files may change in package updates.

The individual files named in flowPloidyFiles are LMD files generated by a Beckman-Coulter Gallios flow cytometer. They represent a variety of samples, and some of them are low quality. They are not ideal data sets, but rather represent a range of data quality for assessing the performance of flowPloidy.

fpBad() and fpVac() each return the path to a single LMD file. These are particularly poor quality files that are used in some of the unit tests for flowPloidy. They're probably not useful to regular users.

Value

A named character vector of file names, including their full path in the local file system.

Examples

Index

```
* datasets
     flowPloidyData, 1

flowPloidyData, 1
flowPloidyFiles (flowPloidyData), 1
fpBad (flowPloidyData), 1
fpVac (flowPloidyData), 1
```