Package 'flowPloidyData'

April 29, 2025

Title Example Flow Cytometry Data **Version** 1.35.0 Author Tyler Smith <tyler@plantarum.ca> Maintainer Tyler Smith <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 devel git_last_commit 77bf81a git_last_commit_date 2025-04-15 **Repository** Bioconductor 3.22 Date/Publication 2025-04-29

Contents

Index

	flowPloidyData	 •••	 	•			•	 	•	 •			•	•		•	1	
2																	3	

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.).

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

2

Index

* datasets
 flowPloidyData, 1

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