# Package 'flowPloidyData'

October 31, 2024

Title Example Flow Cytometry Data

Author Tyler Smith <tyler@plantarum.ca>

**Version** 1.33.0

| Maintainer Tyler Smith <tyler@plantarum.ca></tyler@plantarum.ca>  |
|---|
| <b>Description</b> 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 e7df8ff   |
| git_last_commit_date 2024-10-29   |
| Repository Bioconductor 3.21  |
| Date/Publication 2024-10-31   |
|   |
| Contents  |
| flowPloidyData  |
| Index 3   |

2 flowPloidyData

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**

# **Index**

```
* datasets
    flowPloidyData, 2

flowPloidyData, 2
flowPloidyFiles (flowPloidyData), 2
fpBad (flowPloidyData), 2
fpVac (flowPloidyData), 2
```