

Package ‘healthyFlowData’

October 31, 2024

Type Package

Title Healthy dataset used by the flowMatch package

Version 1.44.0

Date 2013-10-29

Author Ariful Azad

Maintainer Ariful Azad <aazad@purdue.edu>

Description A healthy dataset with 20 flow cytometry samples used by the flowMatch package.

License Artistic-2.0

biocViews FlowCytometryData

Depends R (>= 2.15.0), flowCore

Imports methods

git_url <https://git.bioconductor.org/packages/healthyFlowData>

git_branch RELEASE_3_20

git_last_commit 4db75f2

git_last_commit_date 2024-10-29

Repository Bioconductor 3.20

Date/Publication 2024-10-31

Contents

hd 1

Index 3

hd *Healthy donor (HD) dataset*

Description

This dataset contains 20 samples from four healthy individuals.

Usage

```
data(hd)
```

Format

A flowSet named `hd.flowSet` containing 20 FC samples. Each sample is represented by a `flowFrame`.

Details

Peripheral blood mononuclear cells (PBMC) were collected from four healthy individuals. Each sample was divided into five replicates and each replicate was stained using labeled antibodies against CD3, CD4, CD8, and CD19 protein markers. Therefore we have total 20 samples from four healthy subjects. Each sample was compensated and transformed in order to stabilize per-channel variance. Each sample is then gated on the forward and side scatter to identify lymphocytes. Hence the samples contain only lymphocytes cells.

This is a part of a larger dataset consisting of 65 samples. Please ask the author if you would like to obtain the complete dataset.

References

Azad, Ariful and Khan, Arif and Rajwa, Bartek and Pyne, Saumyadipta and Pothen, Alex (2013); "Classifying Immunophenotypes With Templates From Flow Cytometry", proceedings of ACM BCB, Washington DC.

Examples

```
data(hd)
summary(hd.flowSet)
```

Index

* **datasets**
hd, 1

hd, 1