Package 'iModMixData'

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```
Description Provides example datasets for the iModMix package, including gene,
     protein, and metabolite partial correlation matrices derived from ccRCC4 and
     FloresData_K_TK studies. The data are preprocessed and ready to use for
     testing, demonstrating iModMix workflows, and exploring correlation networks.
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Title Data for iModMix Package

Version 0.99.6

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Description

Loads the PartialCorGenes dataset from ExperimentHub.

Usage

loadPartialCorGenes()

Details

The dataset contains partial correlation values between genes derived from the ccRCC4 study. The original expression data were preprocessed using load_data() which includes:

- Filtering features with >10% missing values
- Removing features with low variance
- · Scaling and KNN imputation of missing values

Partial correlations were then calculated using partial_cors(): rho = 0.25.

Rows correspond to genes, columns correspond to samples. Each entry represents the partial correlation of the gene with other genes, adjusted for covariates.

Value

A data. frame with genes as rows and samples as columns.

Source

ccRCC4 study. Original data processed for iModMix.

Examples

```
genes <- loadPartialCorGenes()
head(genes)
dim(genes)</pre>
```

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loadPartialCorMetabolites

Load PartialCorMetabolites data

Description

Loads the PartialCorMetabolites dataset from ExperimentHub.

Usage

loadPartialCorMetabolites()

Details

The dataset contains partial correlation values between metabolites derived from the FloresData_K_TK study. Data were preprocessed similarly to genes:

- Filtering features with >10% missing values
- · Removing features with low variance
- Scaling and KNN imputation of missing values

Partial correlations were calculated using partial_cors() with rho = 0.25.

Rows correspond to metabolites, columns correspond to samples. Each entry represents the partial correlation of the metabolite with other metabolites, adjusted for covariates.

Value

A data.frame with metabolites as rows and samples as columns.

Source

FloresData_K_TK study. Original data processed for iModMix.

Examples

```
metabolites <- loadPartialCorMetabolites()
head(metabolites)
dim(metabolites)</pre>
```

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loadPartialCorProt

Load PartialCorProt data

Description

Loads the PartialCorProt dataset from ExperimentHub.

Usage

```
loadPartialCorProt()
```

Details

The dataset contains partial correlation values between proteins derived from the FloresData_K_TK study. Data were preprocessed similarly to genes and metabolites:

- Filtering features with >10% missing values
- Removing features with low variance
- Scaling and KNN imputation of missing values

Partial correlations were calculated using partial_cors() with rho = 0.25.

Rows correspond to proteins, columns correspond to samples. Each entry represents the partial correlation of the protein with other proteins, adjusted for covariates.

Value

A data. frame with proteins as rows and samples as columns.

Source

FloresData_K_TK study. Original data processed for iModMix.

Examples

```
proteins <- loadPartialCorProt()
head(proteins)
dim(proteins)</pre>
```

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