Package 'a4Preproc'

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Type Package

Title Automated Affymetrix Array Analysis Preprocessing Package

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Description Automated Affymetrix Array Analysis Preprocessing Package

Depends methods, AnnotationDbi

Suggests ALL, hgu95av2.db

biocViews Bioinformatics, Microarray

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R topics documented:

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addGeneInfo	*Utility Function to Add Annotation to existing ExpressionSet Objects*

Description

Adds appropriate featureData, similar to the metadata added in the pipeline script, to the ExpressionSet object.

Usage

addGeneInfo(eset, annotationLibrary = NULL)

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Arguments

eset   ExpressionSet object for to which one wants to add additional annotation infor-
                                mation

annotationLibrary

                                Annotation Library to use. Must be specified when working with Entrez gene
                                IDs. In this case, one can make use of the JnJ annotation packages such as
                                hgu133plus2hsentrezgJnJ. If not specified, the annotation of the package will
                                be automatically requested with annotation() of the expressionSet object eset
                                and then Affymetrix probe set IDs are expected in featureNames

Details

Slots of featureData(a4ALL) are

- Entrez ID~: Entrez ID as retrieved from annotation package

- Ensembl ID~: Ensembl ID as retrieved from annotation package

- Gene Symbol~: Gene symbol as retrieved from annotation package

- Description~: Description as retrieved from annotation package

Value

a new ExpressionSet object with the additional information stored as feature data

Note

One should always use subscripting of featureData by column name (e.g. featureData(a4ALL)$'Entrez ID';
as the pipeline ExpressionSets have one additional column compared to the ExpressionSet objects
produced by addGeneInfo, i.e. column 2 of the pipeline ExpressionSets corresponds to column
one of an addGeneInfo ExpressionSet.

Author(s)

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Examples

```
library(ALL)
data(ALL)
a4ALL <- addGeneInfo(ALL)
head(featureData(a4ALL)$'Entrez ID')
```

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