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

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biocViews Microarray

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)
```

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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∗Topic **manip**