

# a4Preproc

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

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## 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 information
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 <code>annotation()</code> of the expressionSet object <code>eset</code> and then Affymetrix probe set IDs are expected in <code>featureNames</code>

## 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`)
```

# Index

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addGeneInfo, 1

addGeneInfo, 1