

Package ‘BrainDiseaseCollection’

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Type Package

Title anRichment-type collection of brain cell type-specific gene sets

Version 1.00

Depends anRichment

Suggests org.Hs.eg.db

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Description This package contains gene sets implicated in neurological diseases.

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BrainDiseaseCollection

Returns a collection containing gene sets implicated in neurological diseases.

Description

Returns a collection containing gene sets implicated in neurological diseases.

Usage

```
BrainDiseaseCollection(  
  organism = "human",  
  useHomology = TRUE,  
  addOldOrganismToSetNames = FALSE,  
  namePattern = ".convertedFrom.%o",  
  addOldOrganismToSetDescriptions = FALSE,  
  descriptionPattern = "(Converted from %o.)")
```

Arguments

organism	Character string specifying the organism. Can be common name (such as "human"), scientific name ("Homo sapiens"), or scientific shorthand ("Hs"). To see all recognized organisms, use function organismLabels . If NULL or NA, gene sets in the collection will retain their original content and organism (in this case mouse).
useHomology	logical: should genes in non-human organisms be matched by homology information (where available)? If this is FALSE or the homology information is not available, genes will be matched by name.
addOldOrganismToSetName	Logical: should an indication of the old organism be appended to the set name? This may be useful to indicate that the gene sets was originally constructed for a different organism and its content may not accurately reflect the new organism.
namePattern	Character string giving the pattern that is to be added to the set name. The characters "%o" will be substituted by the actual organism name.
addOldOrganismToSetDescriptions	Logical: should an indication of the old organism be appended to the set description?
descriptionPattern	Character string giving the pattern that is to be added to the set description. The characters "%o" will be substituted by the actual organism name.

Details

SCSBrainCellType gene sets were downloaded on December 14, 2015 and correspond to version 5.0.

Value

Collection of gene sets implicated in neurological diseases.

Author(s)

Code by Peter Langfelder, gene sets compiled by Jason Chen from on-line sources.

Examples

```
## Not run:
collection = BrainDiseaseCollection(organism = "mouse");
knownGroups(collection)

## End(Not run)
```

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