Package ‘biodbExpasy’

May 29, 2024

Title  biodbExpasy, a library for connecting to Expasy ENZYME database.
Version 1.8.0
Description  The biodbExpasy library provides access to Expasy ENZYME database, using biodb package framework. It allows to retrieve entries by their accession number. Web services can be accessed for searching the database by name or comments.
License  AGPL-3
biocViews  Software, Infrastructure, DataImport
VignetteBuilder  knitr
Encoding  UTF-8
Depends  R (>= 4.1)
Imports  biodb (>= 1.3.1), R6, stringr, chk
Suggests  roxygen2, BiocStyle, testthat (>= 2.0.0), devtools, knitr, rmarkdown, covr, lgr
Roxygen  list(markdown = TRUE)
RoxygenNote  7.1.2
Collate  'ExpasyEnzymeConn.R' 'ExpasyEnzymeEntry.R' 'package.R'
git_url  https://git.bioconductor.org/packages/biodbExpasy
git_branch  RELEASE_3_19
git_last_commit  de004e8
git_last_commit_date  2024-04-30
Repository  Bioconductor 3.19
Date/Publication  2024-05-29
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biodbExpasy-package  biodbExpasy: biodbExpasy, a library for connecting to Expasy ENZYME database.

Description

The biodbExpasy library provides access to Expasy ENZYME database, using biodb package framework. It allows to retrieve entries by their accession number. Web services can be accessed for searching the database by name or comments.

Details

See vignette biodbExpasy:

vignette('biodbExpasy', package='biodbExpasy')

Author(s)

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See Also

ExpasyEnzymeConn.

ExpasyEnzymeConn  Expasy ENZYME database. connector class.

Description

Expasy ENZYME database. connector class.

Details

Connector class for Expasy ENZYME database.

This is a concrete connector class. It must never be instantiated directly, but instead be instantiated through the factory BiodbFactory. Only specific methods are described here. See super classes for the description of inherited methods.

Super classes

biodb::BiodbConnBase -> biodb::BiodbConn -> ExpasyEnzymeConn
Methods

Public methods:

- `ExpasyEnzymeConn$new()`
- `ExpasyEnzymeConn$wsEnzymeByName()`
- `ExpasyEnzymeConn$wsEnzymeByComment()`
- `ExpasyEnzymeConn$clone()`

Method `new()`: New instance initializer. Connector classes must not be instantiated directly. Instead, you must use the `createConn()` method of the factory class.

Usage:
`ExpasyEnzymeConn$new(...)`

Arguments:

... All parameters are passed to the super class initializer.

Returns: Nothing.

Method `wsEnzymeByName()`: Calls enzyme-bynome web service and returns the HTML result. See http://enzyme.expasy.org/enzyme-bynome.html.

Usage:
`ExpasyEnzymeConn$wsEnzymeByName(name, retfmt = c("plain", "request", "parsed", "ids"))`

Arguments:

name The name to search for.
retfmt The format to use for the returned value. 'plain' will return the raw result from the server, as a character value. 'request' will return a BiodbRequest instance containing the request as it would have been sent. 'parsed' will return an XML object, containing the parsed result. 'ids' will return a character vector containing the IDs of the matching entries.

Returns: Depending on retfmt.

Method `wsEnzymeByComment()`: Calls enzyme-bycomment web service and returns the HTML result. See http://enzyme.expasy.org/enzyme-bycomment.html.

Usage:
`ExpasyEnzymeConn$wsEnzymeByComment(comment, retfmt = c("plain", "request", "parsed", "ids"))`

Arguments:

comment The comment to search for.
retfmt The format to use for the returned value. 'plain' will return the raw result from the server, as a character value. 'request' will return a BiodbRequest instance containing the request as it would have been sent. 'parsed' will return an XML object, containing the parsed result. 'ids' will return a character vector containing the IDs of the matching entries.
Returns: Depending on retfmt.

Method clone(): The objects of this class are cloneable with this method.

Usage:
ExpasyEnzymeConn$clone(deep = FALSE)

Arguments:
depth Whether to make a deep clone.

See Also
BiodbConn.

Examples

# Create an instance with default settings:
mybiodb <- biodb::newInst()

# Get a connector:
conn <- mybiodb$getFactory()$createConn('expasy.enzyme')

# Get the first entry
e <- conn$getEntry('1.1.1.1')

# Terminate instance.
mybiodb$terminate()

ExpasyEnzymeEntry Expasy ENZYME database. entry class.

Description
Entry class for Expasy ENZYME database.

Super classes
biodb::BiodbEntry -> biodb::BiodbTxtEntry -> ExpasyEnzymeEntry

Methods

Public methods:

• ExpasyEnzymeEntry$clone()

Method clone(): The objects of this class are cloneable with this method.

Usage:
ExpasyEnzymeEntry$clone(deep = FALSE)

Arguments:
depth Whether to make a deep clone.
See Also

BiodbTxtEntry.

Examples

# Create an instance with default settings:
mybiodb <- biodb::newInst()

# Get a connector that inherits from ExpasyEnzymeConn:
conn <- mybiodb$getFactory()$createConn('expasy.enzyme')

# Get the first entry
e <- conn$getEntry('1.1.1.1')

# Terminate instance.
mybiodb$terminate()
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