Package: biodbExpasy (via r-universe)

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Title biodbExpasy, a library for connecting to Expasy ENZYME database.
Version 1.9.0
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.
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biodbExpasy-package biodbExpasy: biodbExpasy, a library for connecting to Expasy EN-ZYME 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. 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

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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-byname web service and returns the HTML result. See http://enzyme.expasy.org/enzyme-byname.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:

deep 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()</pre>
```

 ${\tt ExpasyEnzymeEntry}$

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:

deep Whether to make a deep clone.

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See Also

 ${\tt BiodbTxtEntry}.$

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()</pre>
```

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