

Package ‘biodbHmdb’

October 13, 2022

Title biodbHmdb, a library for connecting to the HMDB Database

Version 1.2.0

Description The biodbHmdb library is an extension of the biodb framework package that provides access to the HMDB Metabolites database. It allows to download the whole HMDB Metabolites database locally, access entries and search for entries by name or description. A future version of this package will also include a search by mass and mass spectra annotation.

URL <https://github.com/pkrog/biodbHmdb>

BugReports <https://github.com/pkrog/biodbHmdb/issues>

biocViews Software, Infrastructure, DataImport

Depends R (>= 4.1)

License AGPL-3

Encoding UTF-8

VignetteBuilder knitr

Suggests BiocStyle, roxygen2, devtools, testthat (>= 2.0.0), knitr, rmarkdown, covr, lgr

Imports R6, biodb (>= 1.3.2), Rcpp

LinkingTo Rcpp, testthat

NeedsCompilation yes

RoxygenNote 7.2.1

Collate 'HmdbMetabolitesConn.R' 'HmdbMetabolitesEntry.R' RcppExports.R
'package.R' 'catch-routine-registration.R'

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HmdbMetabolitesConn *The connector class for the HMDB Metabolites database.*

Description

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](#) -> HmdbMetabolitesConn

Methods

Public methods:

- [HmdbMetabolitesConn\\$clone\(\)](#)

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

Usage:

```
HmdbMetabolitesConn$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Examples

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

# Create a connector
conn <- mybiodb$getFactory()$createConn('hmdb.metabolites')

# Get an entry
# Getting one entry requires the download of the whole database.
e <- conn$getEntry('HMDB0000001')

# Terminate instance.
mybiodb$terminate()
```

HmdbMetabolitesEntry *HMDB Metabolites entry class.*

Description

HMDB Metabolites entry class.

HMDB Metabolites entry class.

Details

This is the entry class for the HMDB Metabolites database.

Super classes

`biodb::BiodbEntry` -> `biodb::BiodbXmlEntry` -> `HmdbMetabolitesEntry`

Methods

Public methods:

- `HmdbMetabolitesEntry$new()`
- `HmdbMetabolitesEntry$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:

```
HmdbMetabolitesEntry$new(...)
```

Arguments:

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

Returns: Nothing.

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

Usage:

```
HmdbMetabolitesEntry$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Examples

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

# Create a connector
conn <- mybiodb$getFactory()$createConn('hmdb.metabolites')

# Get an entry
```

```
# Getting one entry requires the download of the whole database.  
e <- conn$getEntry('HMDB000001')
```

```
# Terminate instance.  
mybiodb$terminate()
```

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