Package 'dbGaP2x'

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2 browse.study

browse.dbgap

Open the dbGap webpag of your study in your browser

Description

Open the dbGap webpag of your study in your browser

Usage

```
browse.dbgap(phs, jupyter = FALSE)
```

Arguments

phs dbGap study ID (phs00xxxx, or 00xxxx, or xxx)
jupyter set on TRUE if you are in a jypyterhub environment

Value

Open the dbGap webpag of your study in your browser

Author(s)

Gregoire Versmee, Laura Versmee

browse.study

Open the study webpage in a web browser

Description

Open the study webpage in a web browser

Usage

```
browse.study(phs, jupyter = FALSE)
```

Arguments

phs dbGap study ID (phs00xxxx, or 00xxxx, or xxx)
jupyter set on TRUE if you are in a jypyterhub environment

Value

Open the study webpage in a web browser

Author(s)

consent.groups 3

consent.groups

Gets you the list of the consent groups of the study

Description

Gets you the list of the consent groups of the study

Usage

```
consent.groups(phs)
```

Arguments

phs

dbGap study ID (phs00xxxx, or 00xxxx, or xxx)

Value

Returns a data frame with 3 cols: "consent group number", "cg short name" and "cg long name"

Author(s)

Gregoire Versmee, Laura Versmee

datatables.dict

Create a tables dictionnary of your study

Description

This function extracts informations from data.dict.xml files from the dbgap ftp server to create a table dictionnary.

Usage

```
datatables.dict(phs)
```

Arguments

phs

dbGap ID of your study "phs000000". No version please, as it will automatically return the latest one.

Value

a data.frame with 3 cols: XXXXX

Author(s)

4 dbgap.decrypt

dbgap.data_dict

Create a table dictionnary and a variable dictionnary

Description

This function extracts informations from data.dict xml files in dbgap to create table dictionnary and a variable dictionnary.

Usage

```
dbgap.data_dict(xml, dest)
```

Arguments

xml Folder where the xml files are located

dest Folder where the data dictionnary and the table dictionnary will be extracted

Value

2 csv files "phs_tables_dict.csv" and "phs_variables_dict.csv"

Author(s)

Gregoire Versmee, Laura Versmee

dbgap.decrypt

Decrypt ncbi_enc files

Description

This function decrypts dbGap files (*ncbi_enc) using your personnal key. Be careful, it can replace the settings of your "vdb-info" file

Usage

```
dbgap.decrypt(files, key = FALSE)
```

Arguments

file

file or folder where your encrypted files are located

Value

Decrypt the file(s) and replace it in the same folder

Author(s)

dbgap.download 5

dbgap.download

Decrypt ncbi_enc files

Description

This function decrypts dbGap files (*ncbi_enc) using your personnal key. Be careful, it can replace the settings of your "vdb-info" file

Usage

```
dbgap.download(krt, key = FALSE)
```

Arguments

file

file or folder where your encrypted files are located

Value

Decrypt the file(s) and replace it in the same folder

Author(s)

Gregoire Versmee, Laura Versmee

is.parent

Is the study a parent or a child study

Description

Is the study a parent or a child study

Usage

```
is.parent(phs)
```

Arguments

phs

dbGap study ID (phs00xxxx, or 00xxxx, or xxx)

Value

Returns a logical TRUE if the study is a parent, and false if the study is a child

Author(s)

6 n.tables

n.pop

Gets the population number of the study

Description

This function extracts informations from data.dict.xml files from the dbgap ftp server to get the population characteristics. Works only for parents studies.

Usage

```
n.pop(phs, consentgroups = TRUE, gender = TRUE)
```

Arguments

phs dbGap study ID (phs00xxxx, or 00xxxx, or xxx)

consentgroup if false, will return only the total number of participants

Value

a data.frame with 2 cols : name of the consent group and n total. Possibility to add the breakdown by gender

Author(s)

Gregoire Versmee, Laura Versmee

n.tables

Gets the number of phenotypic datatables in the study

Description

This function extracts informations from data.dict.xml files from the dbgap ftp server to get the study characteristics. Works only for a parent study.

Usage

```
n.tables(phs)
```

Arguments

phs

dbGap study ID (phs00xxxx, or 00xxxx, or xxx)

Value

Return the number of phenotypic datatables in the study

Author(s)

n.variables 7

n.variables

Gets the number of phenotypic variables in the study

Description

This function extracts informations from data.dict.xml files from the dbgap ftp server to get the study characteristics. Works only for a parent study.

Usage

```
n.variables(phs)
```

Arguments

phs

dbGap study ID (phs00xxxx, or 00xxxx, or xxx)

Value

Return the number of phenotypic datatables in the study

Author(s)

Gregoire Versmee, Laura Versmee

parent.study

Gets you the parent study of the specified study

Description

Gets you the parent study of the specified study

Usage

```
parent.study(phs)
```

Arguments

phs

dbGap study ID (phs00xxxx, or 00xxxx, or xxx)

Value

Returns the phs id of the latest version of the parent study, and its full name. If the study is it's parent itself, will return the phs id and the name of the study.

Author(s)

8 search.dbgap

phs.version

Gets you the full dbGap study ID of your study, with the latest version

Description

Gets you the full dbGap study ID of your study, with the latest version

Usage

```
phs.version(phs)
```

Arguments

phs

dbGap study ID (phs00xxxx, or 00xxxx, or xxx)

Value

Returns the full ID of the latest version of your study

Author(s)

Gregoire Versmee, Laura Versmee

search.dbgap

Open the results of your search on dbGap

Description

Open the results of your search on dbGap

Usage

```
search.dbgap(term, jupyter = FALSE)
```

Arguments

term

Term of your search

jupyter

set on TRUE if you are in a jypyterhub environment

Value

Open the results of your search on dbGap

Author(s)

study.name 9

 ${\tt study.name}$

Gets you the full name of the study on dbGap

Description

Gets you the full name of the study on dbGap

Usage

```
study.name(phs)
```

Arguments

phs

dbGap study ID (phs00xxxx, or 00xxxx, or xxx)

Value

Returns the full name of the study

Author(s)

Gregoire Versmee, Laura Versmee

sub.study

Gives the substudies associated with the one selected

Description

Gives the substudies associated with the one selected

Usage

```
sub.study(phs)
```

Arguments

phs

dbGap study ID (phs00xxxx, or 00xxxx, or xxx)

Value

Returns a dataframe with 2 cols: the phs id and the name of the substudy

Author(s)

10 variables.dict

variables.dict

Create a variables dictionnary of your study

Description

This function extracts informations from data.dict.xml files from the dbgap ftp server to create a variable dictionnary.

Usage

```
variables.dict(phs)
```

Arguments

phs

dbGap study ID (phs00xxxx, or 00xxxx, or xxx)

Value

a data.frame with 4 cols : variable identifier (dbGap), table name, variable name, variable description

Author(s)

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