

Package ‘metabolighteR’

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Type Package

Title Interface to the 'Metabolights' RESTful API

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Description

Access to the 'Metabolights' RESTful API <<https://www.ebi.ac.uk/metabolights/index>>. Retrieve elements of publically available 'Metabolights' studies.

Depends magrittr

Imports httr, dplyr, purrr

License GPL (>= 3)

Encoding UTF-8

LazyData true

RoxygenNote 7.0.1

Suggests covr, testthat, tibble

Roxygen list(markdown = TRUE)

NeedsCompilation no

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get_isa_investigation	<i>Get ISA Investigation File</i>
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Description

Retrieve the ISA Investigation for a specified Metabolights Study

Usage

get_isa_investigation(study_id)

Arguments

study_id A character string of a valid MTBLS study id

Value

the ISA-tab Investigation output

Examples

```
## Not run:
ISA <- get_isa_investigation('MTBLS375')
writeLines(isa_investigation_parse, con = paste0('outpath/ISA.txt'))

## End(Not run)
```

get_private_studies	<i>Get Private Studies</i>
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Description

Retrieve all private studies which belong to your user account

Usage

get_private_studies()

Value

a tibble of your private Study IDs

Examples

```
## Not run:  
get_private_studies()  
  
## End(Not run)
```

`get_studies`*Get Studies*

Description

Retrieve a list of all publically available Metabolights studies

Usage

```
get_studies()
```

Value

a tibble of Study IDs

Examples

```
get_studies()
```

`get_study_contacts`*Get Study Contacts*

Description

Retrieve the contact details for a specified public study '

Usage

```
get_study_contacts(study_id)
```

Arguments

`study_id` a character string of a valid MTBLS study id

Value

a tibble of study contacts

Examples

```
## Not run:  
get_study_contacts('MTBLS375')  
  
## End(Not run)
```

get_study_desc	<i>Get Study Description</i>
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Description

Retrieve the abstract based description of a public study

Usage

```
get_study_desc(study_id)
```

Arguments

study_id A character string of a valid MTBLS study id

Value

a character string of the study description

Examples

```
## Not run:  
get_study_desc('MTBLS375')  
  
## End(Not run)
```

get_study_descriptors	<i>Get Study Descriptors</i>
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Description

Retrieve the study descriptors and annotation values for a publically available study

Usage

```
get_study_descriptors(study_id)
```

Arguments

study_id A character string of a valid MTBLS study id

Value

a tibble of study descriptors

Examples

```
## Not run:  
get_study_descriptors('MTBLS375')  
  
## End(Not run)
```

<code>get_study_factors</code>	<i>Get Study Factors</i>
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Description

Retrieve the study factors and annotation values for a publically available study

Usage

```
get_study_factors(study_id)
```

Arguments

`study_id` A character string of a valid MTBLS study id

Value

a tibble of study factors

Examples

```
## Not run:  
get_study_factors('MTBLS375')  
  
## End(Not run)
```

get_study_files	<i>Get Study Files</i>
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Description

Retrieve the names and type of all files that have been deposited with the public study. If `raw_data` is TRUE then details of raw data files(ie, .mzML) are also returned.

Usage

```
get_study_files(study_id, raw_data = FALSE)
```

Arguments

<code>study_id</code>	A character string of a valid MTBLS study id
<code>raw_data</code>	logical; if TRUE then raw data file info is also returned. (Default is FALSE)

Value

a tibble of file info

Examples

```
## Not run:  
get_study_files('MTBLS375', raw_data = FALSE)  
  
## End(Not run)
```

get_study_meta	<i>Get Study Meta</i>
----------------	-----------------------

Description

Retrieve the meta data for a publically available study

Usage

```
get_study_meta(study_id)
```

Arguments

<code>study_id</code>	A character string of a valid MTBLS study id
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Value

a tibble of study meta data

Examples

```
## Not run:  
get_study_meta('MTBLS375')  
  
## End(Not run)
```

get_study_protocols	<i>Get Study Protocols</i>
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Description

Retrieve the protocol information that has been deposited for a public study

Usage

```
get_study_protocols(study_id)
```

Arguments

study_id A character string of a valid MTBLS study id

Value

a tibble of study protocols

Examples

```
## Not run:  
get_study_protocols('MTBLS375')  
  
## End(Not run)
```

get_study_pubs	<i>Get Study Publications</i>
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Description

Retrieve details on any publications that have been associated with the study

Usage

```
get_study_pubs(study_id)
```

Arguments

study_id A character string of a valid MTBLS study id

Value

a tibble of study publicatons

Examples

```
## Not run:  
get_study_pubs('MTBLS375')  
  
## End(Not run)
```

get_study_title	<i>Get Study Title</i>
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Description

Retrieve the full title of the study

Usage

```
get_study_title(study_id)
```

Arguments

study_id A character string of a valid MTBLS study id

Value

a character string of the study title

Examples

```
## Not run:  
get_study_title('MTBLS375')  
  
## End(Not run)
```

get_webservice	<i>Get Web-service details</i>
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Description

Retrieve details about the Metabolights RESTful Webservice

Usage

```
get_webservice()
```

Value

a list of the MTBLS webservice information

Examples

```
get_webservice()
```

mtbls_key	<i>Set API Token</i>
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Description

Set your Metabolights API Token as global option. If MTBLS_API_KEY is set in .Renviron then this variable will be passed directly to the MTBLS_API_KEY option. If no MTBLS_API_KEY is set in .Renviron, then the API Token must be passed as an input in the set_api_token function

Usage

```
mtbls_key(API_KEY = NULL)
```

Arguments

API_KEY a character string of your Metabolights API Token (Default is NULL)

Examples

```
## Not run:

# If API Token is set in `.Renviron`

mtbls_key()

# If API Token is not set in `.Renviron`

mtbls_key('XXXX-0000-XXXX-0000')

## End(Not run)
```

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