Package 'clinicalomicsdbR'

June 26, 2024

Title Interface with the 'ClinicalOmicsDB' API, Allowing for Easy Data

Downloading and Importing

Version 1.0.5	
Description Provides an interface to the 'ClinicalOmicsDB' API, allowing for easy data downloading and importing. 'ClinicalOmicsDB' is a database of clinical and 'omics' data from cancer patients. The database is accessible at http://trials.linkedomics.org .	
License MIT + file LICENSE	
Encoding UTF-8	
RoxygenNote 7.3.1	
Imports httr2, R6, dplyr, utils, jsonlite	
BugReports https://github.com/bzhanglab/clinicalomicsdbR/issues	
URL https://github.com/bzhanglab/clinicalomicsdbR	
NeedsCompilation no	
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Repository CRAN	
Date/Publication 2024-06-26 12:50:05 UTC	
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2 clinicalomicsdbR

clinicalomicsdbR

clinicalomicsdbR object

Description

clinicalomicsdbR object clinicalomicsdbR object

Value

Returns a new clinicalomicsdbR object

Public fields

hostname The url of the API to connect to. Only change if you are using a custom service.

study_list The list of all the studies that are a result of filtering.

verbosity The level of messages wanted for downloads (defaults to 0: No Output). Follows httr2 documentatation for req_perform

Methods

Public methods:

- clinicalomicsdbR\$filter()
- clinicalomicsdbR\$get_download_url()
- clinicalomicsdbR\$download()
- clinicalomicsdbR\$download_from_id()
- clinicalomicsdbR\$dataframe()
- clinicalomicsdbR\$dataframe_from_id()
- clinicalomicsdbR\$clone()

Method filter(): filter objects according to the specified drugs and cancers

```
Usage:
```

```
clinicalomicsdbR$filter(drugs = c(), cancers = c())
```

Arguments:

drugs list or vector containing drugs that studies need to contain at least one of cancers list of vector of cancer types to consider. Leave empty to consider all cancer types

Returns: new clinicalomicsdbR object with the filtered results in \$study_list

 $\begin{tabular}{ll} \bf Method\ {\tt get_download_url():} \ \ Get\ download\ url\ for\ a\ study\ at\ specified\ study_id \end{tabular}$

Usage:

```
clinicalomicsdbR$get_download_url(study_id)
```

Arguments:

study_id String of the ID of the study to get the download url of

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Returns: String of the download url Method download(): Download all files of the studies in self\$study_list. Use filter function first Usage: clinicalomicsdbR\$download(output_dir) Arguments: output_dir Directory to download files to. Returns: unmodifed clinicalomicsdbR object Method download_from_id(): Download all file from study_id into output_dir directory clinicalomicsdbR\$download_from_id(study_id) Arguments: study_id String containing the ID of the study to download output_dir Directory to download files to. Returns: unmodifed clinicalomicsdbR object **Method** dataframe(): Get all files of the studies in self\$study_list and load into data frame. Use filter function first. Usage: clinicalomicsdbR\$dataframe() Returns: list with study_list element to display all studies and list df with each dataframe in the list **Method** dataframe_from_id(): Get file from study_id and convert into dataframe. Usage: clinicalomicsdbR\$dataframe_from_id(study_id) Arguments: study_id String containing the ID of the study to get dataframe of Returns: data frame containing data of study **Method** clone(): The objects of this class are cloneable with this method. Usage: clinicalomicsdbR\$clone(deep = FALSE) Arguments:

Examples

deep Whether to make a deep clone.

clinicalomicsdbR\$new()\$filter(drugs = c("ipilimumab", "rituximab"))\$study_list # downloads all files

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