

Package: oncoKBData (via r-universe)

September 12, 2024

Title A package to access the oncoKB web API

Version 0.99.1

Description It provides access to the oncoKB API using the rapiclient and AnVIL R / Bioconductor packages. It allows access to both public and private APIs. Private API access requires a token obtained from <https://www.oncokb.org>.

Depends R (>= 4.3.0), AnVIL

Imports dplyr, methods, httr, S4Vectors

Suggests BiocStyle, knitr, rmarkdown

biocViews Infrastructure, ThirdPartyClient

URL <https://github.com/waldronlab/oncoKBData>

BugReports <https://github.com/waldronlab/oncoKBData/issues>

VignetteBuilder knitr

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Repository <https://link-ny.r-universe.dev>

RemoteUrl <https://github.com/waldronlab/oncoKBData>

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cancerGeneList	<i>Obtain the OncoKB cancer gene list</i>
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Description

Obtain the OncoKB cancer gene list

Usage

```
cancerGeneList(api)
```

Arguments

api An OncoKB API instance as returned by oncoKB()

Value

A long tibble of genes with additional columns

Examples

```
oncokb <- oncoKB()
cancerGeneList(oncokb)
```

curatedGenes	<i>Get a table of curated oncogenes</i>
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Description

Get a table of curated oncogenes

Usage

```
curatedGenes(api, includeEvidence = TRUE)
```

Arguments

api An OncoKB API instance as returned by oncoKB()
includeEvidence logical(1) Whether to include additional data in the summary and background columns (default: TRUE)

Value

A tibble of curated oncogenes

Examples

```
oncokb <- oncoKB()  
curatedGenes(oncokb)
```

levelsOfEvidence	<i>Get the Levels of Evidence Tables from OncoKB</i>
------------------	--

Description

The levels of evidence table is an S4Vectors DataFrame that includes metadata consisting of app, api, data, and oncoTree version tags which were used to generate the table.

Usage

```
levelsOfEvidence(api)
```

Arguments

api An OncoKB API instance as returned by oncoKB()

Value

A DataFrame with metadata

Examples

```
oncokb <- oncoKB()  
levelsOfEvidence(oncokb)
```

oncoKB	<i>The R interface to the oncoKB API Data Service</i>
--------	---

Description

This section of the documentation lists the functions that allow users to access the oncoKB API. The main representation of the API can be obtained from the oncoKB function. The supporting functions listed here give access to specific parts of the API and allow the user to explore the API with individual calls.

Usage

```
oncoKB(
  hostname = "www.oncokb.org",
  protocol = "https",
  api. = .DEMO_ENDPOINT,
  token = character()
)
```

Arguments

hostname	character(1) The internet location of the service (default: 'www.cbioportal.org')
protocol	character(1) The internet protocol used to access the hostname (default: 'https')
api.	character(1) The directory location of the API protocol within the hostname (default: '/api/api-docs')
token	character(1) The Authorization Bearer token e.g., "63eba81c-2591-4e15-9d1c-fb6e8e51e35d" or a path to text file.

Value

oncoKB: An API object of class 'oncoKB'

Examples

```
oncokb <- oncoKB()

## Authorization: Bearer token as a file
if (interactive())
  oncoKB(token = "~/onco_token.txt")

names(operations(oncokb))
```

oncoKB-class

A class for representing the oncoKB API protocol

Description

The oncoKB class is a representation of the oncoKB API protocol that directly inherits from the Service class in the AnVIL package. For more information, see the [AnVIL](#) package.

Usage

```
## S4 method for signature 'oncoKB'
operations(x, ..., .deprecated = FALSE)
```

Arguments

- | | |
|-------------|---|
| x | A Service instance or API representation as given by the oncoKB function. |
| ... | additional arguments passed to methods or, for operations, Service-method, to the internal <code>get_operation()</code> function. |
| .deprecated | optional logical(1) include deprecated operations? |

Details

This class takes the static API as provided at <https://www.oncoKB.org/api/api-docs> and creates an R object with the help from underlying infrastructure (i.e., [rapiclient](#) and [AnVIL](#)) to give the user a unified representation of the API specification provided by the oncoKB group. Users are not expected to interact with this class other than to use it as input to the functionality provided by the rest of the package.

Value

An oncoKB class instance.

Functions

- `operations(oncoKB)`:

Slots

`api_header` named `character()` vector passed on to the `.headers` argument in `add_headers()`

See Also

[oncoKB](#), [Service](#)

Examples

```
oncoKB()
```

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