

Package: roinc (via r-universe)

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Type Package

Title Interface to the Logical Observation Identifiers Names and Codes (LOINC) API

Version 0.0.0.9003

Description The Logical Observation Identifiers Names and Codes or LOINC <<https://loinc.org/>>. LOINC is the international standard for identifying health observations, measurements, and documents. This package interfaces with the LOINC API.

License GPL (>= 3)

Depends R (>= 4.1.0)

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BugReports <https://github.com/OxfordIHTM/roinc/issues>

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linguistic_variants	<i>List of the LOINC Linguistic Variants that are available and their producers (translators).</i>
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Description

LOINC Linguistic Variants are provided by an international community of volunteer translators.

Usage

linguistic_variants

Format

A tibble with 5 fields

Variable	Description
<i>ID</i>	The unique identifier for a particular language variant within the LOINC database. This identifier does
<i>ISO_LANGUAGE</i>	The ISO language code
<i>ISO_COUNTRY</i>	The ISO-2C country code
<i>LANGUAGE_NAME</i>	A combination of the name of the language and the country in which that variant is used
<i>PRODUCER</i>	The person or organisation that provided the translation

Examples

linguistic_variants

roinc_codesystem	<i>Retrieving the LOINC CodeSystem resource for FHIR</i>
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Description

Retrieving the LOINC CodeSystem resource for FHIR

Usage

```
roinc_codesystem(tabular = TRUE)
```

```
roinc_codesystem_lookup(code, property = NULL, version = NULL)
```

Arguments

tabular	Logical. Should response be tabular? If TRUE (default), response is converted to a tibble . If FALSE, response is kept as a list .
code	String value for LOINC code identifier for a LOINC code, part, answer list, or answer.
property	A string value or vector of string values for specific LOINC code system property or properties to return in a lookup. The current list of property codes that will return a result are found in https://build.fhir.org/ig/HL7/termchangeset-ig/en/CodeSystem-roinc-property-cs.html .
version	A string value for LOINC version identifier to specify which versions of concepts in LOINC to retrieve.

Value

A [list](#) or a [tibble](#) of LOINC CodeSystem resources for FHIR.

Examples

```
## Not run:
roinc_codesystem()
roinc_codesystem_lookup(code = "4544-3")
roinc_codesystem_lookup(code = "LP31755-9")
roinc_codesystem_lookup(code = "LL1162-8")
roinc_codesystem_lookup(code = "LA6751-7")

## End(Not run)
```

roinc_concept_map	<i>Retrieving the LOINC concept map resource for FHIR</i>
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Description

Retrieving the LOINC concept map resource for FHIR

Usage

```
roinc_concept_map(code)
```

Arguments

code	String value for LOINC code identifier for a LOINC code, part, answer list, or answer.
------	--

Value

A [list](#) or a [tibble](#) of LOINC ConceptMap resources for FHIR.

Examples

```
## Not run:
roinc_concept_map("30657-1")

## End(Not run)
```

roinc_download	<i>Download LOINC's primary release artifact</i>
----------------	--

Description

Download LOINC's primary release artifact

Usage

```
roinc_download(version = NULL, directory = NULL)
```

Arguments

version	A string value for LOINC version identifier to specify which versions of concepts in LOINC to retrieve.
directory	Directory path to save the LOINC primary release artifact download to. Default is to save in the current working directory.

Value

The file path to the downloaded LOINC primary release artifact.

Examples

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

roinc_get_metadata	<i>Get LOINC's primary release artifact download metadata</i>
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Description

Get LOINC's primary release artifact download metadata

Usage

```
roinc_get_metadata(version = NULL, tabular = TRUE)
```

Arguments

version	A string value for LOINC version identifier to specify which versions of concepts in LOINC to retrieve.
tabular	Logical. Should response be tabular? If TRUE (default), response is converted to a tibble . If FALSE, response is kept as a list .

Value

A [list](#) or [tibble](#) of the metadata for the current and for every past release of LOINC or for specific version requested.

Examples

```
## Not run:  
roinc_get_metadata()  
roinc_get_metadata_version()  
  
## End(Not run)
```

roinc_questionnaire	<i>Retrieve LOINC panel/questionnaire resource for FHIR</i>
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Description

Retrieve LOINC panel/questionnaire resource for FHIR

Usage

```
roinc_questionnaire(panel)
```

Arguments

panel	A string value for a LOINC panel.
-------	-----------------------------------

Value

A [list](#) or a [tibble](#) of LOINC panel/questionnaire resources for FHIR.

Examples

```
## Not run:  
roinc_questionnaire(panel = "89689-4")  
  
## End(Not run)
```

roinc_search_loincs	<i>Search the LOINC database</i>
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Description

Search the LOINC database

Usage

```
roinc_search_loincs(  
  query,  
  rows = NULL,  
  offset = NULL,  
  sortorder = NULL,  
  language = NULL,  
  includefiltercounts = NULL,  
  tabular = TRUE,  
  summary = FALSE  
)
```

```

roinc_search_answerlists(
  query,
  rows = NULL,
  offset = NULL,
  sortorder = NULL,
  language = NULL,
  includefiltercounts = NULL,
  tabular = TRUE,
  summary = FALSE
)

roinc_search_parts(
  query,
  rows = NULL,
  offset = NULL,
  sortorder = NULL,
  language = NULL,
  includefiltercounts = NULL,
  tabular = TRUE,
  summary = FALSE
)

roinc_search_groups(
  query,
  rows = NULL,
  offset = NULL,
  sortorder = NULL,
  language = NULL,
  includefiltercounts = NULL,
  tabular = TRUE,
  summary = FALSE
)

```

Arguments

query	Search string.
rows	Integer value to indicate the number of rows to return. When set to NULL (default), 50 rows of search results are returned.
offset	Integer value to indicate the offset, for paging. When set to NULL (default), offset of 0 is used.
sortorder	String value, specifying which field to sort on and order (desc and asc).
language	Integer value to indicate which language to return.
includefiltercounts	Boolean value to indicate if information for filters should be returned with the results.
tabular	Logical. Should response be tabular? If TRUE (default), response is converted to a tibble . If FALSE, response is kept as a list .

summary	Logical. Should the results summary be returned? If FALSE (default), full search results are returned. If TRUE, only results summary are returned.
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Value

A [list](#) or [tibble](#) of results summary or full search results.

Examples

```
## Not run:
roinc_search_loincs(query = "glucose")
roinc_search_answerlists(query = "glucose")
roinc_search_parts(query = "glucose")
roinc_search_groups(query = "glucose")

## End(Not run)
```

roinc_set_credentials *Set LOINC API credentials*

Description

Set LOINC API credentials

Usage

```
roinc_set_credentials(username, password)
```

Arguments

username	LOINC login username
password	LOINC login password

Examples

```
## Not run:
roinc_set_credentials(username = "LOINC_USERNAME", password = "LOINC_PASSWORD")

## End(Not run)
```

roinc_valueset	<i>Retrieving the LOINC value set resource for FHIR</i>
----------------	---

Description

Retrieving the LOINC value set resource for FHIR

Usage

```
roinc_valueset(valueset, expand = FALSE, version = NULL)
```

```
roinc_valueset_validate(valueset, code)
```

Arguments

valueset	A string value for a LOINC term, answer lists, or LOINC groups that specify a set of codes drawn from one or more LOINC code systems.
expand	Logical. Should a value set expansion be performed? If TRUE (default), the terms in a given value set are returned.
version	A string value for LOINC version identifier to specify which versions of concepts in LOINC to retrieve.
code	String value for LOINC code identifier for a LOINC code, part, answer list, or answer.

Value

A [list](#) or a [tibble](#) of LOINC ValueSet resources for FHIR.

Examples

```
## Not run:
roinc_valueset("LL1162-8")
roinc_valueset("LL1162-8", expand = TRUE)
roinc_valueset_validate("LG33055-1", "8867-4")

## End(Not run)
```

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