

Package ‘rbiorxiv’

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Type Package

Title Client for the 'bioRxiv' API

Version 0.2.0

Description R client for interacting with the 'bioRxiv' API
<<https://api.biorxiv.org/>>. Functions include retrieving metadata of
'bioRxiv' and 'medRxiv' preprints, details of published papers associated with
preprints, and summary and usage statistics.

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Encoding UTF-8

LazyData true

URL <https://github.com/nicholasfraser/rbiorxiv>

BugReports <https://github.com/nicholasfraser/rbiorxiv/issues>

Imports httr (>= 1.4.0), jsonlite (>= 1.6.0)

RoxygenNote 7.1.0

Suggests testthat (>= 2.1.0), knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

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`biorxiv_content` *Retrieve details of bioRxiv or medRxiv preprints*

Description

Retrieve details of bioRxiv or medRxiv preprints

Usage

```
biorxiv_content(
  server = "biorxiv",
  from = NULL,
  to = NULL,
  doi = NULL,
  limit = 100,
  skip = 0,
  format = "list"
)
```

Arguments

<code>server</code>	(character) The preprint server to be queried; value must be one of "biorxiv" or "medrxiv". Default: <code>biorxiv</code>
<code>from</code>	(date) The date from when details of preprints should be collected. Date must be supplied in YYYY-MM-DD format. Default: <code>NULL</code>
<code>to</code>	(date) The date until when details of preprints should be collected. Date must be supplied in YYYY-MM-DD format. Default: <code>NULL</code>
<code>doi</code>	(character) A single digital object identifier (DOI) of a preprint. <code>doi</code> cannot be used with <code>from</code> and <code>to</code> arguments. Default: <code>NULL</code>
<code>limit</code>	(integer) The maximum number of results to return. Not relevant when querying a <code>doi</code> . Default: <code>100</code>
<code>skip</code>	(integer) The number of results to skip in a query. Default: <code>0</code>
<code>format</code>	(character) Return data in list <code>list</code> , json <code>json</code> or data frame <code>df</code> format. Default: <code>list</code>

Beware

Querying for a DOI will only work for DOIs associated with bioRxiv or medRxiv

Examples

```
# Get details of preprints deposited between 2018-01-01 and 2018-01-10
# By default, only the first 100 records are returned
biorxiv_content(from = "2018-01-01", to = "2018-01-10")
```

```
# Set a limit to return more than 100 records
biorxiv_content(from = "2018-01-01", to = "2018-01-10", limit = 200)

# Set limit as "*" to return all records
biorxiv_content(from = "2018-01-01", to = "2018-01-10", limit = "*")

# Skip the first 100 records
biorxiv_content(from = "2018-01-01", to = "2018-01-10",
               limit = 200, skip = 100)

# Specify the format to return data
biorxiv_content(from = "2018-01-01", to = "2018-01-10", format = "df")

# Lookup a preprint by DOI
biorxiv_content(doi = "10.1101/833400")
```

biorxiv_published *Retrieve details of published articles with bioRxiv preprints*

Description

Retrieve details of published articles with bioRxiv preprints

Usage

```
biorxiv_published(
  from = NULL,
  to = NULL,
  limit = 100,
  skip = 0,
  format = "list"
)
```

Arguments

from	(date) The date from when details of published articles should be collected. Date must be supplied in YYYY-MM-DD format. Default: NULL
to	(date) The date until when details of published articles should be collected. Date must be supplied in YYYY-MM-DD format. Default: NULL
limit	(integer) The maximum number of results to return. Not relevant when querying a doi. Default: 100
skip	(integer) The number of results to skip in a query. Default: 0
format	(character) Return data in list list, json json or data frame df format. Default: list

Examples

```
# Get details of articles published between 2018-01-01 and 2018-01-10
# By default, only the first 100 records are returned
biorxiv_published(from = "2018-01-01", to = "2018-01-10")

# Set a limit to return more than 100 records
biorxiv_published(from = "2018-01-01", to = "2018-01-10", limit = 200)

# Set limit as "*" to return all records
biorxiv_published(from = "2018-01-01", to = "2018-01-10", limit = "*")

# Skip the first 100 records
biorxiv_published(from = "2018-01-01", to = "2018-01-10",
                  limit = 200, skip = 100)

# Specify the format to return data
biorxiv_published(from = "2018-01-01", to = "2018-01-10", format = "df")
```

biorxiv_publisher	<i>Retrieve details of published articles with bioRxiv preprints by a specific publisher</i>
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Description

Retrieve details of published articles with bioRxiv preprints by a specific publisher

Usage

```
biorxiv_publisher(
  prefix = NULL,
  from = NULL,
  to = NULL,
  limit = 100,
  skip = 0,
  format = "list"
)
```

Arguments

prefix	(character) The prefix of a digital object identifier (DOI) associated with a publisher. Default: NULL
from	(date) The date from when details of published articles should be collected. Date must be supplied in YYYY-MM-DD format. Default: NULL
to	(date) The date until when details of published articles should be collected. Date must be supplied in YYYY-MM-DD format. Default: NULL

limit (integer) The maximum number of results to return. Not relevant when querying a doi. Default: 100

skip (integer) The number of results to skip in a query. Default: 0

format (character) Return data in list list, json json or data frame df format. Default: list

Examples

```
# Get details of articles published by eLife (doi prefix = 10.7554)
# between 2018-01-01 and 2018-01-30
# By default, only the first 100 records are returned
biorxiv_publisher(prefix = "10.7554", from = "2018-01-01", to = "2018-01-10")

# Set a limit to return more than 100 records
biorxiv_publisher(prefix = "10.7554", from = "2018-01-01", to = "2018-01-30",
                  limit = 200)

# Set limit as "*" to return all records
biorxiv_publisher(prefix = "10.7554", from = "2018-01-01", to = "2018-01-30",
                  limit = "*")

# Skip the first 100 records
biorxiv_publisher(prefix = "10.7554", from = "2018-01-01", to = "2018-01-30",
                  limit = 200, skip = 100)

# Specify the format to return data
biorxiv_publisher(prefix = "10.7554", from = "2018-01-01", to = "2018-01-30",
                  format = "df")
```

biorxiv_summary *Retrieve summary statistics for deposits of bioRxiv content*

Description

Retrieve summary statistics for deposits of bioRxiv content

Usage

```
biorxiv_summary(interval = "m", format = "list")
```

Arguments

interval (character) Return either monthly m or yearly y data. Default: m

format (character) Return data in list list, json json or data frame df format. Default: list

Examples

```
# Return a list of monthly deposit statistics
biorxiv_summary(interval = "m")

# Return data in a data frame
biorxiv_summary(interval = "m", format = "df")

# Return annual deposit statistics
biorxiv_summary(interval = "y")
```

biorxiv_usage	<i>Retrieve summary statistics for usage of bioRxiv content</i>
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Description

Retrieve summary statistics for usage of bioRxiv content

Usage

```
biorxiv_usage(interval = "m", format = "list")
```

Arguments

interval	(character) Return either monthly m or yearly y data. Default: m
format	(character) Return data in list list, json json or data frame df format. Default: list

Examples

```
# Return a list of monthly usage statistics
biorxiv_usage(interval = "m")

# Return data in a data frame
biorxiv_usage(interval = "m", format = "df")

# Return annual usage statistics
biorxiv_usage(interval = "y")
```

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