# Package 'pubmedR'

October 14, 2022
<b>Title</b> Gathering Metadata About Publications, Grants, Clinical Trials from 'PubMed' Database
Version 0.0.3
<b>Description</b> A set of tools to extract bibliographic content from 'PubMed' database using 'NCBI' REST API <a href="https://www.ncbi.nlm.nih.gov/home/develop/api/">https://www.ncbi.nlm.nih.gov/home/develop/api/</a> .
License GPL-3
<pre>URL https://github.com/massimoaria/pubmedR</pre>
<pre>BugReports https://github.com/massimoaria/pubmedR/issues</pre>
Encoding UTF-8
LazyData true
Imports rentrez, XML
Suggests bibliometrix, knitr, rmarkdown
RoxygenNote 7.1.0
VignetteBuilder knitr
NeedsCompilation no
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Repository CRAN
<b>Date/Publication</b> 2020-07-09 11:00:02 UTC
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pmApi2df

Convert xml PubMed bibliographic data into a dataframe

## **Description**

It converts PubMed data, downloaded using Entrez API, into a dataframe

## Usage

```
pmApi2df(P, format = "bibliometrix")
```

## **Arguments**

P is a list following the xml PubMed structure, downloaded using the function

pmApiRequest.

format is a character. If format = "bibliometrix" data will be converted in the bib-

liometrix complatible data format. If format = "raw" data will save in a data

frame without any other data editing procedure.

#### Value

a dataframe containing bibliographic records.

To obtain a free access to NCBI API, please visit: https://www.ncbi.nlm.nih.gov/pmc/tools/developers/

To obtain more information about how to write a NCBI search query, please visit: <a href="https://pubmed.ncbi.nlm.nih.gov/help/#seartags">https://pubmed.ncbi.nlm.nih.gov/help/#seartags</a>

## See Also

```
pmApiRequest
pmQueryTotalCount
```

## **Examples**

pmApiRequest 3

pmApiRequest	Gather bibliographic content from PubMed database using NCBI entrez APIs
	trez APIs

## **Description**

It gathers metadata about publications from the NCBI PubMed database. The use of NCBI PubMed APIs is entirely free, and doesn't necessary require an API key. The function pmApiRequest queries NCBI PubMed using an entrez query formulated through the function pmQueryBuild.

## Usage

```
pmApiRequest(query, limit, api_key = NULL)
```

## **Arguments**

query is a character. It contains a search query formulated using the Entrez query

language.

1 imit is numeric. It indicates the max number of records to download.

api\_key is a character. It contains a valid api key API keys for the NCBI E-utilities.

#### **Details**

Official API documentation is https://www.ncbi.nlm.nih.gov/books/NBK25500/.

#### Value

a list D composed by 5 objects:

data It is the xml-structured list containing the bibliographic metadata collection downloaded from the P query It a character object containing the original query formulated by the user.

It a character object containing the query, translated by the NCBI Automatic Terms Translation syst records\_downloaded It is an integer object indicating the total number of records downloaded and stored in "data".

total\_counts It is an integer object indicating the total number of records matching the query (stored in the "quer

To obtain a free access to NCBI API, please visit: https://www.ncbi.nlm.nih.gov/pmc/tools/developers/

To obtain more information about how to write a NCBI search query, please visit: https://pubmed.ncbi.nlm.nih.gov/help/#seartags

## See Also

```
pmQueryTotalCount
pmApi2df
```

## **Examples**

4 pmQueryTotalCount

pmQueryTotalCount

Count the number of documents returned by a query

## Description

It counts the number of documents that a query returns from the NCBI PubMed database.

## Usage

```
pmQueryTotalCount(query, api_key = NULL)
```

## **Arguments**

query is a character. It contains a search query formulated using the Entrez query

language.

api\_key is a character. It contains a valid API keys for the NCBI E-utilities. Default

is api\_key=NULL The use of NCBI PubMed APIs is entirely free, and doesn't

necessary require an API key.

## Value

a list. It contains three objects:

n The total number of records returned by the query

query\_translation The query translation by the NCBI Automatic Terms Translation system

web\_history The web history object. The NCBI provides search history features, which issueful for dealing with lar

To obtain a free access to NCBI API, please visit: https://www.ncbi.nlm.nih.gov/pmc/tools/developers/

## See Also

```
pmApiRequest
pmApi2df
```

## **Examples**

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