

Package: ResearchAssociate (via r-universe)

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Title Retrieving Publications from PubMed Database Based on User Query

Version 1.0.1

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Description Connects to Pubmed <<https://pubmed.ncbi.nlm.nih.gov/>> to retrieve publications related to user-defined search query.

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Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

Imports rentrez, XML, plyr, ggplot2

NeedsCompilation no

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Additional_repositories <https://cranhaven.r-universe.dev>

Config/pak/sysreqs libxml2-dev libssl-dev

Repository <https://cranhaven.r-universe.dev>

RemoteUrl <https://github.com/cranhaven/cranhaven.r-universe.dev>

RemoteRef package/ResearchAssociate

RemoteSha 8bf097ebfec9e2ff3e5abeb1652f3fd7c869b9ae

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Get.Abstracts	<i>Get Abstracts of user-defined search query</i>
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Description

Get Abstracts of user-defined search query

Usage

```
Get.Abstracts(Searchquery, Output = NULL)
```

Arguments

Searchquery	input a text query for example "Bioinformatics", "Bioinformatics or machine learning", "Cancer and drug targets"
Output	path to save file containig results returened by the function.

Author(s)

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Examples

```
Abstracts <- Get.Abstracts(Searchquery = "physics and deep learning and proteomics")
```

Get.Publication.info	<i>Retrieve all publications related to user-defined search query from PubMed database</i>
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Description

Retrieve all publications related to user-defined search query from PubMed database

Usage

```
Get.Publication.info(  
  Searchquery,  
  Publicationinfo = c("title", "source", "lastauthor", "pubtype", "pubdate",  
    "pmcrefcount"),  
  Output = NULL  
)
```

Arguments

- Searchquery input a text query for example "Bioinformatics", "Bioinformatics or machine learning", "Cancer and drug targets"
- Publicationinfo information to be returned from pubmed such paper title, last author, journal or number of citations
- Output path to save file containig results returened by the function.

Author(s)

Mohmed Soudy <Mohamed.soudy@57357.com> and Ali Mostafa <ali.mo.anwar@std.agr.cu.edu.eg>

Examples

```
Publications <- Get.Publication.info(Searchquery = "physics and deep learning and proteomics")
```

Plot.papertype *Plot papers type returned by "Get.Publication.info" Function*

Description

Plot papers type returned by "Get.Publication.info" Function

Usage

```
Plot.papertype(Publications, directorypath = NULL)
```

Arguments

- Publications Dataframe returned by "Get.Publication.info" Function.
- directorypath path to save plot generated by the function.

Author(s)

Mohmed Soudy <Mohamed.soudy@57357.com> and Ali Mostafa <ali.mo.anwar@std.agr.cu.edu.eg>

Plot.TopJournals	<i>Plot Top cited Journals from data returned by "Get.Publication.info" Function</i>
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Description

Plot Top cited Journals from data returned by "Get.Publication.info" Function

Usage

```
Plot.TopJournals(Publications, Top = 10, directorypath = NULL)
```

Arguments

Publications	Dataframe returned by "Get.Publication.info" Function.
Top	Number of Journals to be visulaized sorted by citations.
directorypath	path to save plot generated by the function.

Author(s)

Mohmed Soudy <Mohamed.soudy@57357.com> and Ali Mostafa <ali.mo.anwar@std.agr.cu.edu.eg>

Plot.TopPapers	<i>Plot Top cited publications from data returned by "Get.Publication.info" Function</i>
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Description

Plot Top cited publications from data returned by "Get.Publication.info" Function

Usage

```
Plot.TopPapers(Publications, Top = 10, directorypath = NULL)
```

Arguments

Publications	Dataframe returned by "Get.Publication.info" Function.
Top	Number of publications to be visulaized sorted by citations.
directorypath	path to save plot generated by the function.

Author(s)

Mohmed Soudy <Mohamed.soudy@57357.com> and Ali Mostafa <ali.mo.anwar@std.agr.cu.edu.eg>

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