

# Package ‘ResearchAssociate’

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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.

**License** GPL-3

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.1

**Imports** rentrez, XML, plyr, ggplot2

**NeedsCompilation** no

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Get.Abstracts                      *Get Abstracts of user-defined search query*

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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")
```

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Get.Publication.info      *Retrieve all publications related to user-defined search query from PubMed database*

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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")
```

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

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### 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>

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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)**

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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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