

Package ‘RISmed’

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Type Package

Title Download Content from NCBI Databases

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Depends R (>= 3.6.0), methods

Description A set of tools to extract bibliographic content from the National Center for Biotechnology Information (NCBI) databases, including PubMed. The name RISmed is a portmanteau of RIS (for Research Information Systems, a common tag format for bibliographic data) and PubMed.

License GPL (>= 2)

LazyData true

NeedsCompilation no

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R topics documented:

RISmed-package	5
AbstractText	6
AbstractText-methods	6
Acronym	7
Acronym-methods	7
Affiliation	8
Affiliation-methods	8
Agency	9
Agency-methods	9
ArticleId	10
ArticleId-methods	10
ArticleTitle	11
ArticleTitle-methods	11

Author	12
Author-methods	12
c,Medline-method	13
Cited	13
Cited-methods	14
COIStatement	14
COIStatement-methods	14
CollectiveName	15
CollectiveName-methods	15
CopyrightInformation	16
CopyrightInformation-methods	16
Country	17
Country-methods	17
DayAccepted	18
DayAccepted-methods	18
DayArticleDate	19
DayArticleDate-methods	19
DayEntrez	20
DayEntrez-methods	20
DayEpublish	21
DayEpublish-methods	21
DayMedline	22
DayMedline-methods	22
DayPmc	23
DayPmc-methods	23
DayPublish	24
DayPublish-methods	24
DayPubDate	25
DayPubDate-methods	25
DayPubmed	26
DayPubmed-methods	26
DayReceived	27
DayReceived-methods	27
DayRevised	28
DayRevised-methods	28
DOI	29
DOI-methods	29
ELocationID	30
ELocationID-methods	30
EUtilsGet	31
EUtilsQuery	32
EUtilsSummary	33
EUtilsSummary-class	34
GrantID	35
GrantID-methods	36
HourAccepted	36
HourAccepted-methods	37
HourEntrez	37

HourEntrez-methods	38
HourEpublish	38
HourEpublish-methods	39
HourMedline	39
HourMedline-methods	40
HourPmc	40
HourPmc-methods	41
HourPpublish	41
HourPpublish-methods	42
HourPubmed	42
HourPubmed-methods	43
HourReceived	43
HourReceived-methods	44
ISOAbbreviation	44
ISOAbbreviation-methods	45
ISSN	45
ISSN-methods	46
ISSNLinking	46
ISSNLinking-methods	47
Issue	47
Issue-methods	48
Language	48
Language-methods	49
Medline-class	49
MedlinePgn	54
MedlinePgn-methods	54
MedlineTA	55
MedlineTA-methods	55
Mesh	56
Mesh-methods	56
MinuteAccepted	57
MinuteAccepted-methods	57
MinuteEntrez	58
MinuteEntrez-methods	58
MinuteEpublish	59
MinuteEpublish-methods	59
MinuteMedline	60
MinuteMedline-methods	60
MinutePmc	61
MinutePmc-methods	61
MinutePpublish	62
MinutePpublish-methods	62
MinutePubmed	63
MinutePubmed-methods	63
MinuteReceived	64
MinuteReceived-methods	64
MonthAccepted	65
MonthAccepted-methods	65

MonthArticleDate	66
MonthArticleDate-methods	66
MonthEntrez	67
MonthEntrez-methods	67
MonthEpublish	68
MonthEpublish-methods	68
MonthMedline	69
MonthMedline-methods	69
MonthPmc	70
MonthPmc-methods	70
MonthPpublish	71
MonthPpublish-methods	71
MonthPubDate	72
MonthPubDate-methods	72
MonthPubmed	73
MonthPubmed-methods	73
MonthReceived	74
MonthReceived-methods	74
MonthRevised	75
MonthRevised-methods	75
myeloma	76
NlmUniqueID	76
NlmUniqueID-methods	77
PMID	77
PMID-methods	78
print-Medline	78
print-methods	78
PublicationStatus	79
PublicationStatus-methods	79
PublicationType	80
PublicationType-methods	80
Query	81
Query-methods	81
QueryCount	82
QueryId	82
QueryTranslation	83
RefSource	84
RefSource-methods	84
RegistryNumber	85
RegistryNumber-methods	85
show-Medline	86
show-methods	86
summary-methods	86
Title	87
Title-methods	87
Volume	88
Volume-methods	88
YearAccepted	89

YearAccepted-methods	89
YearArticleDate	90
YearArticleDate-methods	90
YearEntrez	91
YearEntrez-methods	91
YearEpublish	92
YearEpublish-methods	92
YearMedline	93
YearMedline-methods	93
YearPmc	94
YearPmc-methods	94
YearPpublish	95
YearPpublish-methods	95
YearPubDate	96
YearPubDate-methods	96
YearPubmed	97
YearPubmed-methods	97
YearReceived	98
YearReceived-methods	98
YearRevised	99
YearRevised-methods	99

Index**100**

RISmed-package	<i>Download content from NCBI databases.</i>
----------------	--

Description

Download content from NCBI databases. This package is intended to facilitate analyses of NCBI database content. This package is not intended for reference management.

Details

Package:	RISmed
Type:	Package
Version:	2.1.3
Date:	2014-7-20
License:	GPL (>=2)
LazyLoad:	yes

Note on usage:

In order not to overload the E-utility servers, NCBI recommends that users post no more than three URL requests per second and limit large jobs to either weekends or between 9:00 PM and 5:00 AM Eastern time during weekdays. Failure to comply with this policy may result in an IP address being blocked from accessing NCBI.

Author(s)

Maintainer: Stephanie Kovalchik <s.a.kovalchik@gmail.com>

AbstractText *Extracts AbstractText from Medline object.*

Description

Extractor for the AbstractText of a Medline object.

Usage

```
AbstractText(object)
```

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)
AbstractText(myeloma)
```

AbstractText-methods *~~ Methods for Function AbstractText in Package **RISmed** ~~*

Description

*~~ Methods for function AbstractText in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

Acronym	<i>Extracts Acronym from Medline object.</i>
---------	--

Description

Extractor for the Acronym of a Medline object.

Usage

```
Acronym(object)
```

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)
Acronym(myeloma)
```

Acronym-methods	<i>~~ Methods for Function Acronym in Package RISmed ~~</i>
-----------------	--

Description

*~~ Methods for function Acronym in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

Affiliation	<i>Extracts Affiliation from Medline object.</i>
-------------	--

Description

Extractor for the Affiliation of a Medline object.

Usage

```
Affiliation(object)
```

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)
Affiliation(myeloma)
```

Affiliation-methods	<i>~~ Methods for Function Affiliation in Package RISmed ~~</i>
---------------------	--

Description

*~~ Methods for function Affiliation in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

Agency	<i>Extracts Agency from Medline object.</i>
--------	---

Description

Extractor for the Agency of a Medline object.

Usage

```
Agency(object)
```

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)  
Agency(myeloma)
```

Agency-methods	<i>~~ Methods for Function Agency in Package RISmed ~~</i>
----------------	---

Description

*~~ Methods for function Agency in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

ArticleId	<i>Extracts ArticleId from Medline object.</i>
-----------	--

Description

Extractor for the ArticleId of a Medline object.

Usage

```
ArticleId(object)
```

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)  
ArticleId(myeloma)
```

ArticleId-methods	<i>~~ Methods for Function ArticleId in Package RISmed ~~</i>
-------------------	--

Description

*~~ Methods for function ArticleId in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

ArticleTitle *Extracts ArticleTitle from Medline object.*

Description

Extractor for the ArticleTitle of a Medline object.

Usage

```
ArticleTitle(object)
```

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)
ArticleTitle(myeloma)
```

ArticleTitle-methods *~~ Methods for Function ArticleTitle in Package **RISmed** ~~*

Description

*~~ Methods for function ArticleTitle in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

Author *Extracts Author from Medline object.*

Description

Extractor for the Author of a Medline object.

Usage

```
Author(object)
```

Arguments

object instance of class Medline

Value

List by Pubmed article. Each list contains a data frame with LastName, ForeName, Initials, and order of article authors.

See Also

[Medline](#)

Examples

```
data(myeloma)
Author(myeloma)
```

Author-methods *~~ Methods for Function Author in Package **RISmed** ~~*

Description

*~~ Methods for function Author in package **RISmed** ~~*

Methods

signature(object = "Medline") List by Pubmed article. Each list contains a data frame with LastName, ForeName, Initials, and order of article authors.

c,Medline-method	<i>Concatenate Medline</i>
------------------	----------------------------

Description

Concatenates multiple Medline objects

Usage

```
## S4 method for signature 'Medline'
c(x, ...)
```

Arguments

x	a Medline object
...	Additional Medline objects to concatenate

Value

A Medline object

Cited	<i>Number of citations</i>
-------	----------------------------

Description

Retrieves the number of citations in PubMed Central for the articles contained in the EUtilsSummary or Medline object.

Usage

```
Cited(object)
```

Arguments

object	instance of class Medline or EUtilsSummary
--------	--

Value

vector

See Also

[Medline](#), [EUtilsSummary](#)

Cited-methods *~~ Methods for Function Cited in Package **RISmed** ~~*

Description

~~ Methods for function Cited in package **RISmed** ~~

Methods

signature(object = "Medline")

COIStatement *Extracts COIStatement from Medline object.*

Description

Extractor for the COIStatement of a Medline object.

Usage

COIStatement(object)

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

COIStatement-methods *~~ Methods for Function COIStatement in Package **RISmed** ~~*

Description

~~ Methods for function COIStatement in package **RISmed** ~~

Methods

signature(object = "Medline")

CollectiveName	<i>Extracts CollectiveName from Medline object.</i>
----------------	---

Description

Extractor for the CollectiveName of a Medline object.

Usage

```
CollectiveName(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

See Also

[Medline](#)

CollectiveName-methods

*~~ Methods for Function CollectiveName in Package **RISmed** ~~*

Description

*~~ Methods for function CollectiveName in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

CopyrightInformation *Extracts CopyrightInformation from Medline object.*

Description

Extractor for the CopyrightInformation of a Medline object.

Usage

```
CopyrightInformation(object)
```

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)
CopyrightInformation(myeloma)
```

CopyrightInformation-methods

*~~ Methods for Function CopyrightInformation in Package
RISmed ~~*

Description

~~ Methods for function CopyrightInformation in package RISmed ~~

Methods

```
signature(object = "Medline")
```

Country	<i>Extracts Country from Medline object.</i>
---------	--

Description

Extractor for the Country of a Medline object.

Usage

```
Country(object)
```

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)  
Country(myeloma)
```

Country-methods	<i>~~ Methods for Function Country in Package RISmed ~~</i>
-----------------	--

Description

*~~ Methods for function Country in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

DayAccepted	<i>Extracts DayAccepted from Medline object.</i>
-------------	--

Description

Extractor for the DayAccepted of a Medline object. This date corresponds to the date the article was accepted.

Usage

```
DayAccepted(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
DayAccepted(myeloma)
```

DayAccepted-methods	<i>~~ Methods for Function DayAccepted in Package RISmed ~~</i>
---------------------	---

Description

~~ Methods for function DayAccepted in package RISmed ~~

Methods

```
signature(object = "Medline")
```

DayArticleDate	<i>Extracts DayArticleDate from Medline object.</i>
----------------	---

Description

Extractor for the DayArticleDate of a Medline object. This date corresponds to the date the article was ArticleDate.

Usage

```
DayArticleDate(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
DayArticleDate(myeloma)
```

DayArticleDate-methods

*~~ Methods for Function DayArticleDate in Package **RISmed** ~~*

Description

*~~ Methods for function DayArticleDate in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

DayEntrez	<i>Extracts DayEntrez from Medline object.</i>
-----------	--

Description

Extractor for the DayEntrez of a Medline object. This date corresponds to the date the article was ArticleDate.

Usage

```
DayEntrez(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
DayEntrez(myeloma)
```

DayEntrez-methods	<i>~~ Methods for Function DayEntrez in Package RISmed ~~</i>
-------------------	--

Description

*~~ Methods for function DayEntrez in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

DayEpublish	<i>Extracts DayEpublish from Medline object.</i>
-------------	--

Description

Extractor for the DayEpublish of a Medline object. This date corresponds to the date the article was published online.

Usage

```
DayEpublish(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
DayEpublish(myeloma)
```

DayEpublish-methods *~~ Methods for Function DayEpublish in Package **RISmed** ~~*

Description

*~~ Methods for function DayEpublish in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

DayMedline	<i>Extracts DayMedline from Medline object.</i>
------------	---

Description

Extractor for the DayMedline of a Medline object. This date corresponds to the date the article was ArticleDate.

Usage

```
DayMedline(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
DayMedline(myeloma)
```

DayMedline-methods	<i>~~ Methods for Function DayMedline in Package RISmed ~~</i>
--------------------	---

Description

*~~ Methods for function DayMedline in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

DayPmc	<i>Extracts DayPmc from Medline object.</i>
--------	---

Description

Extractor for the DayPmc of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

Usage

```
DayPmc(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
DayPmc(myeloma)
```

DayPmc-methods	<i>~~ Methods for Function DayPmc in Package RISmed ~~</i>
----------------	---

Description

*~~ Methods for function DayPmc in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

DayPublish	<i>Extracts DayPublish from Medline object.</i>
------------	---

Description

Extractor for the DayPublish of a Medline object. This date corresponds to the date the article was published in print.

Usage

```
DayPublish(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
DayPublish(myeloma)
```

DayPublish-methods	<i>~~ Methods for Function DayPublish in Package RISmed ~~</i>
--------------------	--

Description

~~ Methods for function DayPublish in package RISmed ~~

Methods

```
signature(object = "Medline")
```

DayPubDate	<i>Extracts DayPubDate from Medline object.</i>
------------	---

Description

Extractor for the DayPubDate of a Medline object. This date corresponds to the date the article was PubDate.

Usage

```
DayPubDate(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
DayPubDate(myeloma)
```

DayPubDate-methods *~~ Methods for Function DayPubDate in Package **RISmed** ~~*

Description

*~~ Methods for function DayPubDate in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

DayPubmed	<i>Extracts DayPubmed from Medline object.</i>
-----------	--

Description

Extractor for the DayPubmed of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

Usage

```
DayPubmed(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
DayPubmed(myeloma)
```

DayPubmed-methods	<i>~~ Methods for Function DayPubmed in Package RISmed ~~</i>
-------------------	--

Description

*~~ Methods for function DayPubmed in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

DayReceived	<i>Extracts DayReceived from Medline object.</i>
-------------	--

Description

Extractor for the DayReceived of a Medline object. This date corresponds to the date the article was received.

Usage

```
DayReceived(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
DayReceived(myeloma)
```

DayReceived-methods *~~ Methods for Function DayReceived in Package RISmed ~~*

Description

~~ Methods for function DayReceived in package RISmed ~~

Methods

```
signature(object = "Medline")
```

DayRevised	<i>Extracts DayRevised from Medline object.</i>
------------	---

Description

Extractor for the DayRevised of a Medline object. This date corresponds to the date the article was Revised.

Usage

```
DayRevised(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
DayRevised(myeloma)
```

DayRevised-methods	<i>~~ Methods for Function DayRevised in Package RISmed ~~</i>
--------------------	---

Description

*~~ Methods for function DayRevised in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

DOI *Extracts DOI from Medline object.*

Description

Extractor for the DOI of a Medline object.

Usage

```
DOI(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
DOI(myeloma)
```

DOI-methods *~~ Methods for Function DOI in Package **RISmed** ~~*

Description

*~~ Methods for function DOI in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

ELocationID	<i>Extracts ELocationID from Medline object.</i>
-------------	--

Description

Extractor for the ELocationID of a Medline object.

Usage

```
ELocationID(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)
ELocationID(myeloma)
```

ELocationID-methods	<i>~~ Methods for Function ELocationID in Package RISmed ~~</i>
---------------------	--

Description

*~~ Methods for function ELocationID in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

EUtilsGet *Results of an NCBI EUtils query*

Description

Download results of a query for any database of the National Center for Biotechnology Information (NCBI).

Usage

```
EUtilsGet(x, type="efetch", db="pubmed")
```

Arguments

x	Either vector of NCBI records ids, i.e. returned ids from EUtilsSummary, or the EUtilsSummary object itself
type	string indicating type of NCBI Eutility, efetch, esummary, etc.
db	string indicating the NCBI database used in query

Details

Possible E-utilities to supply to type are efetch, esummary, and elink.

The database name supplied to db can be any valid Entrez database, such as pubmed, protein, nlm, etc.

For further details on available E-utilities and databases visit <https://www.ncbi.nlm.nih.gov/books/NBK25499/>.

Note on usage:

In order not to overload the E-utility servers, NCBI recommends that users post no more than three URL requests per second and limit large jobs to either weekends or between 9:00 PM and 5:00 AM Eastern time during weekdays. Failure to comply with this policy may result in an IP address being blocked from accessing NCBI.

Value

For queries to PubMed, a list by article, with named vectors for each field of the article result.

For all other database, a vector with each element name the field returned from XML output.

Author(s)

Stephanie Kovalchik <s.a.kovalchik@gmail.com>

References

Summary help:

<https://www.ncbi.nlm.nih.gov/books/NBK3827/>

MEDLINE/PubMed Field Descriptions

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html>

See Also

[EUtilsSummary](#)

EUtilsQuery

Construct URL to make NCBI EUtils query

Description

Construct a URL query for any database of the National Center for Biotechnology Information (NCBI).

Usage

EUtilsQuery(query, type="esearch", db="pubmed", ...)

Arguments

query	string query as given in NCBI search box
type	string indicating type of NCBI Eutility
db	string indicating the NCBI database used in query
...	additional limits added to query

Details

Possible E-utilities to supply to type are einfo, esearch, epost, esummary, elink, egquery, espell.

The database name supplied to db can be any valid Entrez database, such as pubmed, protein, nlm, etc.

For further details on available E-utilities and databases visit <https://www.ncbi.nlm.nih.gov/books/NBK25499/>.

Limits that can be supplied to ... to refine the query include:

reldate	Limits search results to be within the specified number of days from current date.
mindate	Minimum of date range for search results (examples: 2002; 2002/01/01); must be supplied with maxdate.
maxdate	Maximum of date range for search results; must be supplied with mindate.
datetype	Which date field to use in setting date limits. Possible choices are edat, Entrez date, which is the date article was
retstart	Where in the sequence of returned results to begin retrieving, default is 0.
retmax	Maximum number of records to retrieve, default is 1000.

Value

String URL to access NCBI E-utility.

Author(s)

Stephanie Kovalchik <s.a.kovalchik@gmail.com>

References

Query help:

<https://www.ncbi.nlm.nih.gov/books/NBK3827/>

MEDLINE/PubMed Field Descriptions

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html>

Examples

```
# PUBMED QUERY
EUtilsQuery("myeloma[ti] jones[au]")

# RESTRICT TO RECORDS WITHIN LAST 30 days
EUtilsQuery("myeloma[ti] jones[au]",reldat=30)
```

EUtilsSummary

Get summary of NCBI EUtils query

Description

Get summary information on the results of a query for any database of the National Center for Biotechnology Information (NCBI).

Usage

```
EUtilsSummary(query, type="esearch", db="pubmed", url=NULL, encoding="unknown", ...)
```

Arguments

query	string query as given in NCBI search box
type	string indicating type of NCBI Eutility
db	string indicating the NCBI database used in query
url	string of url to bypass query construction
encoding	encoding to be assumed for input strings, see readLines
...	additional limits added to query

Details

Possible E-utilities to supply to type are einfo, esearch, epost, esummary, elink, egquery, espell.

The database name supplied to db can be any valid Entrez database, such as pubmed, protein, nlm, etc.

For further details on available E-utilities and databases visit <https://www.ncbi.nlm.nih.gov/books/NBK25499/>.

Limits that can be supplied to . . . to refine the query include:

reldate	Limits search results to be within the specified number of days from current date.
mindate	Minimum of date range for search results (examples: 2002; 2002/01/01); must be supplied with maxdate.
maxdate	Maximum of date range for search results; must be supplied with mindate.
datatype	Which date field to use in setting date limits. Possible choices are edat, Entrez date, which is the date article was
restart	Where in the sequence of returned results to begin retrieving, default is 0.
retmax	Maximum number of records to retrieve, default is 1000.

Value

Returns an EUtilsSummary object.

Author(s)

Stephanie Kovalchik <s.a.kovalchik@gmail.com>

References

Summary help:

<https://www.ncbi.nlm.nih.gov/books/NBK3827/>

MEDLINE/PubMed Field Descriptions

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html>

See Also

[EUtilsQuery](#)

EUtilsSummary-class *Class "EUtilsSummary"*

Description

Summary of query of an NCBI E-utility

Objects from the Class

Objects can be created by calls of the form `new("EUtilsSummary", ...)`.

Slots

db: Name of database
count: total ids
retmax: limit on number of records to return
retstart: numeric indicating where return records start
PMID: character vector of matching ids
querytranslation: character of NCBI translation of query

Methods

QueryCount signature(object = "EUtilsSummary"): ...
QueryId signature(object = "EUtilsSummary"): ...
print signature(x = "EUtilsSummary"): ...
show signature(object = "EUtilsSummary"): ...
summary signature(object = "EUtilsSummary"): ...
QueryTranslation signature(object = "EUtilsSummary"): ...

Author(s)

Stephanie Kovalchik

GrantID

Extracts GrantID from Medline object.

Description

Extractor for the GrantID of a Medline object.

Usage

GrantID(object)

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)
GrantID(myeloma)
```

GrantID-methods *~~ Methods for Function GrantID in Package **RISmed** ~~*

Description

*~~ Methods for function GrantID in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

HourAccepted *Extracts HourAccepted from Medline object.*

Description

Extractor for the HourAccepted of a Medline object. This date corresponds to the date the article was accepted.

Usage

```
HourAccepted(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
HourAccepted(myeloma)
```

HourAccepted-methods *~~ Methods for Function HourAccepted in Package **RISmed** ~~*

Description

~~ Methods for function HourAccepted in package **RISmed** ~~

Methods

signature(object = "Medline")

HourEntrez *Extracts HourEntrez from Medline object.*

Description

Extractor for the HourEntrez of a Medline object. This date corresponds to the date the article was ArticleDate.

Usage

HourEntrez(object)

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
HourEntrez(myeloma)
```

HourEntrez-methods *~~ Methods for Function HourEntrez in Package **RISmed** ~~*

Description

*~~ Methods for function HourEntrez in package **RISmed** ~~*

Methods

signature(object = "Medline")

HourEpublish *Extracts HourEpublish from Medline object.*

Description

Extractor for the HourEpublish of a Medline object. This date corresponds to the date the article was published online.

Usage

```
HourEpublish(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
HourEpublish(myeloma)
```

HourEpublish-methods *~~ Methods for Function HourEpublish in Package **RISmed** ~~*

Description

~~ Methods for function HourEpublish in package **RISmed** ~~

Methods

signature(object = "Medline")

HourMedline *Extracts HourMedline from Medline object.*

Description

Extractor for the HourMedline of a Medline object. This date corresponds to the date the article was ArticleDate.

Usage

HourMedline(object)

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
HourMedline(myeloma)
```

HourMedline-methods *~~ Methods for Function HourMedline in Package **RISmed** ~~*

Description

*~~ Methods for function HourMedline in package **RISmed** ~~*

Methods

signature(object = "Medline")

HourPmc *Extracts HourPmc from Medline object.*

Description

Extractor for the HourPmc of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

Usage

```
HourPmc(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
HourPmc(myeloma)
```

HourPmc-methods *~~ Methods for Function HourPmc in Package **RISmed** ~~*

Description

~~ Methods for function HourPmc in package **RISmed** ~~

Methods

signature(object = "Medline")

HourPpublish *Extracts HourPpublish from Medline object.*

Description

Extractor for the HourPpublish of a Medline object. This date corresponds to the date the article was published in print.

Usage

```
HourPpublish(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
HourPpublish(myeloma)
```

HourPublish-methods *~~ Methods for Function HourPublish in Package **RISmed** ~~*

Description

*~~ Methods for function HourPublish in package **RISmed** ~~*

Methods

signature(object = "Medline")

HourPubmed *Extracts HourPubmed from Medline object.*

Description

Extractor for the HourPubmed of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

Usage

```
HourPubmed(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
HourPubmed(myeloma)
```

HourPubmed-methods *~~ Methods for Function HourPubmed in Package **RISmed** ~~*

Description

~~ Methods for function HourPubmed in package **RISmed** ~~

Methods

signature(object = "Medline")

HourReceived *Extracts HourReceived from Medline object.*

Description

Extractor for the HourReceived of a Medline object. This date corresponds to the date the article was received.

Usage

```
HourReceived(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
HourReceived(myeloma)
```

HourReceived-methods *~~ Methods for Function HourReceived in Package **RISmed** ~~*

Description

*~~ Methods for function HourReceived in package **RISmed** ~~*

Methods

signature(object = "Medline")

ISOAbbreviation *Extracts ISOAbbreviation from Medline object.*

Description

Extractor for the ISOAbbreviation of a Medline object.

Usage

ISOAbbreviation(object)

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)
ISOAbbreviation(myeloma)
```

ISOAbbreviation-methods

~~ *Methods for Function ISOAbbreviation in Package RISmed* ~~

Description

~~ Methods for function ISOAbbreviation in package **RISmed** ~~

Methods

signature(object = "Medline")

ISSN

Extracts ISSN from Medline object.

Description

Extractor for the ISSN of a Medline object.

Usage

ISSN(object)

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)
ISSN(myeloma)
```

ISSN-methods

~~ *Methods for Function ISSN in Package **RISmed*** ~~

Description

~~ Methods for function ISSN in package **RISmed** ~~

Methods

signature(object = "Medline")

ISSNLinking

Extracts ISSNLinking from Medline object.

Description

Extractor for the ISSNLinking of a Medline object.

Usage

ISSNLinking(object)

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)
ISSNLinking(myeloma)
```

ISSNLinking-methods *~~ Methods for Function ISSNLinking in Package **RISmed** ~~*

Description

*~~ Methods for function ISSNLinking in package **RISmed** ~~*

Methods

signature(object = "Medline")

Issue	<i>Extracts Issue from Medline object.</i>
-------	--

Description

Extractor for the Issue of a Medline object.

Usage

Issue(object)

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)
Issue(myeloma)
```

Issue-methods

~~ *Methods for Function Issue in Package* **RISmed** ~~

Description

~~ Methods for function Issue in package **RISmed** ~~

Methods

signature(object = "Medline")

Language

Extracts Language from Medline object.

Description

Extractor for the Language of a Medline object.

Usage

Language(object)

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)
Language(myeloma)
```

Language-methods *~~ Methods for Function Language in Package RISmed ~~*

Description

~~ Methods for function Language in package **RISmed** ~~

Methods

signature(object = "Medline")

Medline-class *Class "Medline"*

Description

Class for Medline citation of query to PubMed.

Objects from the Class

Objects can be created by calls of the form `new("Medline", ...)`.

Slots

Unless stated otherwise, each of the components is a vector of the given field where each element corresponds to a PubMed article.

Query:

PMID:

YearPubDate:

MonthPubDate:

DayPubDate:

YearRevised:

MonthRevised:

DayRevised:

YearEntrez:

MonthEntrez:

DayEntrez:

HourEntrez:

MinuteEntrez:

YearArticleDate:

MonthArticleDate:

DayArticleDate:
YearMedline:
MonthMedline:
DayMedline:
HourMedline:
MinuteMedline:
YearAccepted:
MonthAccepted:
DayAccepted:
HourAccepted:
MinuteAccepted:
YearReceived:
MonthReceived:
DayReceived:
HourReceived:
MinuteReceived:
YearEpublish:
MonthEpublish:
DayEpublish:
HourEpublish:
MinuteEpublish:
YearPpublish:
MonthPpublish:
DayPpublish:
HourPpublish:
MinutePpublish:
YearPmc:
MonthPmc:
DayPmc:
HourPmc:
MinutePmc:
YearPubmed:
MonthPubmed:
DayPubmed:
HourPubmed:
MinutePubmed:

Author: list of data frames giving LastName, ForeName, Initials, and order of authors by PubMed article.

ISSN:
Title:
ArticleTitle:
ELocationID:
AbstractText:
Affiliation:
Language:
PublicationType:
MedlineTA:
NlmUniqueID:
ISSNLinking:
PublicationStatus:
ArticleId:
DOI:
Volume:
Issue:
ISOAbbreviation:
MedlinePgn:
CopyrightInformation:
Country:
GrantID:
Acronym:
Agency:
RegistryNumber:
RefSource:
CollectiveName:
COIStatement:
Mesh: list of data frames giving Heading and Type of MeSH term or NA if no terms are in MED-LINE record

Methods

In addition to print and show methods, each slot of the Medline class has a corresponding extractor of the same name.

print signature(x = "Medline",...): ...
show signature(object = "Medline"): ...
c signature(x = "Medline",...): ...
Query signature(object = "Medline"): ...

PMID signature(object = "Medline"): ...
YearPubDate signature(object = "Medline"): ...
MonthPubDate signature(object = "Medline"): ...
DayPubDate signature(object = "Medline"): ...
YearRevised signature(object = "Medline"): ...
MonthRevised signature(object = "Medline"): ...
DayRevised signature(object = "Medline"): ...
YearEntrez signature(object = "Medline"): ...
MonthEntrez signature(object = "Medline"): ...
DayEntrez signature(object = "Medline"): ...
HourEntrez signature(object = "Medline"): ...
MinuteEntrez signature(object = "Medline"): ...
YearArticleDate signature(object = "Medline"): ...
MonthArticleDate signature(object = "Medline"): ...
DayArticleDate signature(object = "Medline"): ...
YearMedline signature(object = "Medline"): ...
MonthMedline signature(object = "Medline"): ...
DayMedline signature(object = "Medline"): ...
HourMedline signature(object = "Medline"): ...
MinuteMedline signature(object = "Medline"): ...
YearAccepted signature(object = "Medline"): ...
MonthAccepted signature(object = "Medline"): ...
DayAccepted signature(object = "Medline"): ...
HourAccepted signature(object = "Medline"): ...
MinuteAccepted signature(object = "Medline"): ...
YearReceived signature(object = "Medline"): ...
MonthReceived signature(object = "Medline"): ...
DayReceived signature(object = "Medline"): ...
HourReceived signature(object = "Medline"): ...
MinuteReceived signature(object = "Medline"): ...
YearEpublish signature(object = "Medline"): ...
MonthEpublish signature(object = "Medline"): ...
DayEpublish signature(object = "Medline"): ...
HourEpublish signature(object = "Medline"): ...
MinuteEpublish signature(object = "Medline"): ...
YearPpublish signature(object = "Medline"): ...
MonthPpublish signature(object = "Medline"): ...

DayPublish signature(object = "Medline"): ...
HourPublish signature(object = "Medline"): ...
MinutePublish signature(object = "Medline"): ...
YearPmc signature(object = "Medline"): ...
MonthPmc signature(object = "Medline"): ...
DayPmc signature(object = "Medline"): ...
HourPmc signature(object = "Medline"): ...
MinutePmc signature(object = "Medline"): ...
YearPubmed signature(object = "Medline"): ...
MonthPubmed signature(object = "Medline"): ...
DayPubmed signature(object = "Medline"): ...
HourPubmed signature(object = "Medline"): ...
MinutePubmed signature(object = "Medline"): ...
Author signature(object = "Medline"): ...
ISSN signature(object = "Medline"): ...
Title signature(object = "Medline"): ...
ArticleTitle signature(object = "Medline"): ...
ELocationID signature(object = "Medline"): ...
AbstractText signature(object = "Medline"): ...
Affiliation signature(object = "Medline"): ...
Language signature(object = "Medline"): ...
PublicationType signature(object = "Medline"): ...
MedlineTA signature(object = "Medline"): ...
NlmUniqueID signature(object = "Medline"): ...
ISSNLinking signature(object = "Medline"): ...
PublicationStatus signature(object = "Medline"): ...
ArticleId signature(object = "Medline"): ...
DOI signature(object = "Medline"): ...
Volume signature(object = "Medline"): ...
Issue signature(object = "Medline"): ...
ISOAbbreviation signature(object = "Medline"): ...
MedlinePgn signature(object = "Medline"): ...
CopyrightInformation signature(object = "Medline"): ...
Country signature(object = "Medline"): ...
GrantID signature(object = "Medline"): ...
Acronym signature(object = "Medline"): ...
Agency signature(object = "Medline"): ...
RegistryNumber signature(object = "Medline"): ...
RefSource signature(object = "Medline"): ...
CollectiveName signature(object = "Medline"): ...
COIStatement signature(object = "Medline"): ...
Mesh signature(object = "Medline"): ...

Author(s)

Stephanie Kovalchik

MedlinePgn

Extracts MedlinePgn from Medline object.

Description

Extractor for the MedlinePgn of a Medline object.

Usage

```
MedlinePgn(object)
```

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)
MedlinePgn(myeloma)
```

MedlinePgn-methods

*~~ Methods for Function MedlinePgn in Package **RISmed** ~~*

Description

*~~ Methods for function MedlinePgn in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

MedlineTA	<i>Extracts MedlineTA from Medline object.</i>
-----------	--

Description

Extractor for the MedlineTA of a Medline object.

Usage

```
MedlineTA(object)
```

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)
MedlineTA(myeloma)
```

MedlineTA-methods	<i>~~ Methods for Function MedlineTA in Package RISmed ~~</i>
-------------------	--

Description

*~~ Methods for function MedlineTA in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

Mesh	<i>Extracts Mesh headings from Medline object.</i>
------	--

Description

Extractor for the Mesh headings of a Medline object.

Usage

Mesh(object)

Arguments

object instance of class Medline

Details

In Process and publisher-supplied records lack MeSH terms. See the MeSH home page <https://www.nlm.nih.gov/mesh/meshhome.html> for additional information about MeSH. Note that more recent records may lack MeSH headings.

Value

List by Pubmed article. Each list contains a data frame with Heading and Type. The Heading is a MeSH Term and Type is either a Descriptor or a Qualifier of a Descriptor term. Qualifiers of a Descriptor immediately follow the Descriptor term in the data frame. When MeSH headings have not been included with a MEDLINE record, the list will contain NAs (see details).

See Also

[Medline](#)

Mesh-methods	<i>~~ Methods for Function Mesh in Package RISmed ~~</i>
--------------	---

Description

*~~ Methods for function Mesh in package **RISmed** ~~*

Methods

signature(object = "Medline") List by Pubmed article. Each list contains a data frame with Heading and Type. The Heading is a MeSH Term and Type is either a Descriptor or a Qualifier of a Descriptor term.

MinuteAccepted	<i>Extracts MinuteAccepted from Medline object.</i>
----------------	---

Description

Extractor for the MinuteAccepted of a Medline object. This date corresponds to the date the article was accepted.

Usage

```
MinuteAccepted(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MinuteAccepted(myeloma)
```

MinuteAccepted-methods

*~~ Methods for Function MinuteAccepted in Package **RISmed** ~~*

Description

*~~ Methods for function MinuteAccepted in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

MinuteEntrez	<i>Extracts MinuteEntrez from Medline object.</i>
--------------	---

Description

Extractor for the MinuteEntrez of a Medline object. This date corresponds to the date the article was ArticleDate.

Usage

```
MinuteEntrez(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MinuteEntrez(myeloma)
```

MinuteEntrez-methods *~~ Methods for Function MinuteEntrez in Package **RISmed** ~~*

Description

*~~ Methods for function MinuteEntrez in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

MinuteEpublish	<i>Extracts MinuteEpublish from Medline object.</i>
----------------	---

Description

Extractor for the MinuteEpublish of a Medline object. This date corresponds to the date the article was published online.

Usage

```
MinuteEpublish(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MinuteEpublish(myeloma)
```

MinuteEpublish-methods

*~~ Methods for Function MinuteEpublish in Package **RISmed** ~~*

Description

*~~ Methods for function MinuteEpublish in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

MinuteMedline	<i>Extracts MinuteMedline from Medline object.</i>
---------------	--

Description

Extractor for the MinuteMedline of a Medline object. This date corresponds to the date the article was ArticleDate.

Usage

```
MinuteMedline(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MinuteMedline(myeloma)
```

MinuteMedline-methods *~~ Methods for Function MinuteMedline in Package RISmed ~~*

Description

~~ Methods for function MinuteMedline in package RISmed ~~

Methods

```
signature(object = "Medline")
```

MinutePmc	<i>Extracts MinutePmc from Medline object.</i>
-----------	--

Description

Extractor for the MinutePmc of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

Usage

```
MinutePmc(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MinutePmc(myeloma)
```

MinutePmc-methods *~~ Methods for Function MinutePmc in Package **RISmed** ~~*

Description

*~~ Methods for function MinutePmc in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

MinutePublish *Extracts MinutePublish from Medline object.*

Description

Extractor for the MinutePublish of a Medline object. This date corresponds to the date the article was published in print.

Usage

```
MinutePublish(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MinutePublish(myeloma)
```

MinutePublish-methods

*~~ Methods for Function MinutePublish in Package **RISmed** ~~*

Description

*~~ Methods for function MinutePublish in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

MinutePubmed	<i>Extracts MinutePubmed from Medline object.</i>
--------------	---

Description

Extractor for the MinutePubmed of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

Usage

```
MinutePubmed(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MinutePubmed(myeloma)
```

MinutePubmed-methods *~~ Methods for Function MinutePubmed in Package RISmed ~~*

Description

~~ Methods for function MinutePubmed in package RISmed ~~

Methods

```
signature(object = "Medline")
```

MinuteReceived	<i>Extracts MinuteReceived from Medline object.</i>
----------------	---

Description

Extractor for the MinuteReceived of a Medline object. This date corresponds to the date the article was received.

Usage

```
MinuteReceived(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MinuteReceived(myeloma)
```

MinuteReceived-methods

*~~ Methods for Function MinuteReceived in Package **RISmed** ~~*

Description

*~~ Methods for function MinuteReceived in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

MonthAccepted	<i>Extracts MonthAccepted from Medline object.</i>
---------------	--

Description

Extractor for the MonthAccepted of a Medline object. This date corresponds to the date the article was accepted.

Usage

```
MonthAccepted(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MonthAccepted(myeloma)
```

MonthAccepted-methods *~~ Methods for Function MonthAccepted in Package RISmed ~~*

Description

~~ Methods for function MonthAccepted in package RISmed ~~

Methods

```
signature(object = "Medline")
```

MonthArticleDate *Extracts MonthArticleDate from Medline object.*

Description

Extractor for the MonthArticleDate of a Medline object. This date corresponds to the date the article was ArticleDate.

Usage

```
MonthArticleDate(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MonthArticleDate(myeloma)
```

MonthArticleDate-methods

*~~ Methods for Function MonthArticleDate in Package **RISmed** ~~*

Description

*~~ Methods for function MonthArticleDate in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

MonthEntrez	<i>Extracts MonthEntrez from Medline object.</i>
-------------	--

Description

Extractor for the MonthEntrez of a Medline object. This date corresponds to the date the article was ArticleDate.

Usage

```
MonthEntrez(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MonthEntrez(myeloma)
```

MonthEntrez-methods *~~ Methods for Function MonthEntrez in Package RISmed ~~*

Description

~~ Methods for function MonthEntrez in package RISmed ~~

Methods

```
signature(object = "Medline")
```

MonthEpublish *Extracts MonthEpublish from Medline object.*

Description

Extractor for the MonthEpublish of a Medline object. This date corresponds to the date the article was published online.

Usage

```
MonthEpublish(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MonthEpublish(myeloma)
```

MonthEpublish-methods *~~ Methods for Function MonthEpublish in Package RISmed ~~*

Description

~~ Methods for function MonthEpublish in package RISmed ~~

Methods

```
signature(object = "Medline")
```

MonthMedline	<i>Extracts MonthMedline from Medline object.</i>
--------------	---

Description

Extractor for the MonthMedline of a Medline object. This date corresponds to the date the article was ArticleDate.

Usage

```
MonthMedline(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MonthMedline(myeloma)
```

MonthMedline-methods *~~ Methods for Function MonthMedline in Package **RISmed** ~~*

Description

*~~ Methods for function MonthMedline in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

MonthPmc	<i>Extracts MonthPmc from Medline object.</i>
----------	---

Description

Extractor for the MonthPmc of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

Usage

```
MonthPmc(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MonthPmc(myeloma)
```

MonthPmc-methods	<i>~~ Methods for Function MonthPmc in Package RISmed ~~</i>
------------------	--

Description

~~ Methods for function MonthPmc in package RISmed ~~

Methods

```
signature(object = "Medline")
```

MonthPpublish	<i>Extracts MonthPpublish from Medline object.</i>
---------------	--

Description

Extractor for the MonthPpublish of a Medline object. This date corresponds to the date the article was published in print.

Usage

```
MonthPpublish(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MonthPpublish(myeloma)
```

MonthPpublish-methods *~~ Methods for Function MonthPpublish in Package RISmed ~~*

Description

~~ Methods for function MonthPpublish in package RISmed ~~

Methods

```
signature(object = "Medline")
```

MonthPubDate *Extracts MonthPubDate from Medline object.*

Description

Extractor for the MonthPubDate of a Medline object. This date corresponds to the date the article was PubDate.

Usage

```
MonthPubDate(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MonthPubDate(myeloma)
```

MonthPubDate-methods *~~ Methods for Function MonthPubDate in Package **RISmed** ~~*

Description

*~~ Methods for function MonthPubDate in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

MonthPubmed	<i>Extracts MonthPubmed from Medline object.</i>
-------------	--

Description

Extractor for the MonthPubmed of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

Usage

```
MonthPubmed(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MonthPubmed(myeloma)
```

MonthPubmed-methods *~~ Methods for Function MonthPubmed in Package RISmed ~~*

Description

~~ Methods for function MonthPubmed in package RISmed ~~

Methods

```
signature(object = "Medline")
```

MonthReceived	<i>Extracts MonthReceived from Medline object.</i>
---------------	--

Description

Extractor for the MonthReceived of a Medline object. This date corresponds to the date the article was received.

Usage

```
MonthReceived(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MonthReceived(myeloma)
```

MonthReceived-methods *~~ Methods for Function MonthReceived in Package RISmed ~~*

Description

~~ Methods for function MonthReceived in package RISmed ~~

Methods

```
signature(object = "Medline")
```

MonthRevised	<i>Extracts MonthRevised from Medline object.</i>
--------------	---

Description

Extractor for the MonthRevised of a Medline object. This date corresponds to the date the article was Revised.

Usage

```
MonthRevised(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
MonthRevised(myeloma)
```

MonthRevised-methods *~~ Methods for Function MonthRevised in Package **RISmed** ~~*

Description

*~~ Methods for function MonthRevised in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

myeloma

Example of results from EUtilsGet

Description

First five records of query of NCBI PubMed for "myeloma[MeSh]" in the past year (at the time of this writing) as a Medline object.

Usage

myeloma

Format

A list object with five PubMed article records.

Author(s)

Stephanie Kovalchik <s.a.kovalchik@gmail.com>

Source

PubMed database of the US National Library of Medicine

See Also

[EUtilsGet,Medline](#)

NlmUniqueID

Extracts NlmUniqueID from Medline object.

Description

Extractor for the NlmUniqueID of a Medline object.

Usage

NlmUniqueID(object)

Arguments

object instance of class Medline

Value

vector

See Also[Medline](#)**Examples**

```
data(myeloma)
NlmUniqueID(myeloma)
```

NlmUniqueID-methods *~~ Methods for Function NlmUniqueID in Package **RISmed** ~~*

Description

*~~ Methods for function NlmUniqueID in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

PMID	<i>Extracts PMID from Medline object.</i>
------	---

Description

Extractor for the PMID of a Medline object.

Usage

```
PMID(object)
```

Arguments

object instance of class Medline

Value

vector

See Also[Medline](#)**Examples**

```
data(myeloma)
PMID(myeloma)
```

PMID-methods

*~~ Methods for Function PMID in Package **RISmed** ~~*

Description

*~~ Methods for function PMID in package **RISmed** ~~*

Methods

signature(object = "Medline")

print-Medline

Print method for Medline object

Description

Print object of class Medline

Methods

signature(object = "Medline") Query translation (if provided) and total fetched record count for Medline object.

print-methods

Print method for EUtilsSummary object

Description

Print object of class EUtilsSummary

Methods

signature(object = "EUtilsSummary") Query translation for EUtilsSummary object.

PublicationStatus *Extracts PublicationStatus from Medline object.*

Description

Extractor for the PublicationStatus of a Medline object.

Usage

```
PublicationStatus(object)
```

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)
PublicationStatus(myeloma)
```

PublicationStatus-methods

~~ *Methods for Function PublicationStatus in Package **RISmed***

~~

Description

~~ Methods for function PublicationStatus in package **RISmed** ~~

Methods

```
signature(object = "Medline")
```

PublicationType *Extracts PublicationType from Medline object.*

Description

Extractor for the PublicationType of a Medline object.

Usage

```
PublicationType(object)
```

Arguments

object instance of class Medline

Value

list

See Also

[Medline](#)

Examples

```
data(myeloma)
PublicationType(myeloma)
```

PublicationType-methods

*~~ Methods for Function PublicationType in Package **RISmed** ~~*

Description

*~~ Methods for function PublicationType in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

Query	<i>Extract Query from Medline object.</i>
-------	---

Description

Extractor for the translated Query of a Medline object.

Usage

```
Query(object)
```

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)  
Query(myeloma)
```

Query-methods	<i>~~ Methods for Function Query in Package RISmed ~~</i>
---------------	--

Description

*~~ Methods for function Query in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

QueryCount	<i>Count of record results for EUtilsQuery</i>
------------	--

Description

Returns the number of Ids from a E-utility query

Usage

QueryCount(object)

Arguments

object object of the EUtilsSummary class.

Value

numeric count

Author(s)

Stephanie Kovalchik

See Also

[EUtilsSummary](#)

QueryId	<i>Get ids from EUtilsQuery</i>
---------	---------------------------------

Description

Returns the vector Ids from a E-utility query

Usage

QueryId(object)

Arguments

object object of the EUtilsSummary class.

Value

character vector of ids

Author(s)

Stephanie Kovalchik

See Also

[EUtilsSummary](#)

QueryTranslation *Get the NCBI query translation from EUtilsQuery*

Description

Returns the string translation of a E-utility query

Usage

QueryTranslation(object)

Arguments

object object of the EUtilsSummary class.

Value

character query translation

Author(s)

Stephanie Kovalchik

See Also

[EUtilsSummary](#)

RefSource	<i>Extracts RefSource from Medline object.</i>
-----------	--

Description

Extractor for the RefSource of a Medline object.

Usage

```
RefSource(object)
```

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)
RefSource(myeloma)
```

RefSource-methods	<i>~~ Methods for Function RefSource in Package RISmed ~~</i>
-------------------	--

Description

*~~ Methods for function RefSource in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

RegistryNumber	<i>Extracts RegistryNumber from Medline object.</i>
----------------	---

Description

Extractor for the RegistryNumber of a Medline object.

Usage

```
RegistryNumber(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)
RegistryNumber(myeloma)
```

RegistryNumber-methods

~~ Methods for Function RegistryNumber in Package RISmed ~~

Description

~~ Methods for function RegistryNumber in package RISmed ~~

Methods

```
signature(object = "Medline")
```

show-Medline *Show method for Medline object*

Description

Show object of class Medline

Methods

signature(object = "Medline") Query translation (if provided) and total fetched record count for Medline object.

show-methods *Show method for EUtilsSummary object*

Description

Show object of class EUtilsSummary

Methods

signature(object = "EUtilsSummary") Query translation for EUtilsSummary object.

summary-methods *Summary method for EUtilsSummary object*

Description

Summary of object of class EUtilsSummary

Methods

signature(object = "EUtilsSummary", ...) Returns the number of records and id vector.

Title	<i>Extracts Title from Medline object.</i>
-------	--

Description

Extractor for the Title of a Medline object.

Usage

```
Title(object)
```

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)  
Title(myeloma)
```

Title-methods	<i>~~ Methods for Function Title in Package RISmed ~~</i>
---------------	--

Description

*~~ Methods for function Title in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

Volume	<i>Extracts Volume from Medline object.</i>
--------	---

Description

Extractor for the Volume of a Medline object.

Usage

```
Volume(object)
```

Arguments

object instance of class Medline

Value

vector

See Also

[Medline](#)

Examples

```
data(myeloma)  
Volume(myeloma)
```

Volume-methods	<i>~~ Methods for Function Volume in Package RISmed ~~</i>
----------------	---

Description

*~~ Methods for function Volume in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

YearAccepted	<i>Extracts YearAccepted from Medline object.</i>
--------------	---

Description

Extractor for the YearAccepted of a Medline object. This date corresponds to the date the article was accepted.

Usage

```
YearAccepted(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
YearAccepted(myeloma)
```

YearAccepted-methods *~~ Methods for Function YearAccepted in Package RISmed ~~*

Description

~~ Methods for function YearAccepted in package RISmed ~~

Methods

```
signature(object = "Medline")
```

YearArticleDate	<i>Extracts YearArticleDate from Medline object.</i>
-----------------	--

Description

Extractor for the YearArticleDate of a Medline object. This date corresponds to the date the article was ArticleDate.

Usage

```
YearArticleDate(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
YearArticleDate(myeloma)
```

YearArticleDate-methods

*~~ Methods for Function YearArticleDate in Package **RISmed** ~~*

Description

*~~ Methods for function YearArticleDate in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

YearEntrez	<i>Extracts YearEntrez from Medline object.</i>
------------	---

Description

Extractor for the YearEntrez of a Medline object. This date corresponds to the date the article was ArticleDate.

Usage

```
YearEntrez(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
YearEntrez(myeloma)
```

YearEntrez-methods *~~ Methods for Function YearEntrez in Package **RISmed** ~~*

Description

*~~ Methods for function YearEntrez in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

YearEpublish *Extracts YearEpublish from Medline object.*

Description

Extractor for the YearEpublish of a Medline object. This date corresponds to the date the article was published online.

Usage

```
YearEpublish(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
YearEpublish(myeloma)
```

YearEpublish-methods *~~ Methods for Function YearEpublish in Package **RISmed** ~~*

Description

*~~ Methods for function YearEpublish in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

YearMedline	<i>Extracts YearMedline from Medline object.</i>
-------------	--

Description

Extractor for the YearMedline of a Medline object. This date corresponds to the date the article was ArticleDate.

Usage

```
YearMedline(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
YearMedline(myeloma)
```

YearMedline-methods *~~ Methods for Function YearMedline in Package RISmed ~~*

Description

~~ Methods for function YearMedline in package RISmed ~~

Methods

```
signature(object = "Medline")
```

YearPmc	<i>Extracts YearPmc from Medline object.</i>
---------	--

Description

Extractor for the YearPmc of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

Usage

```
YearPmc(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
YearPmc(myeloma)
```

YearPmc-methods	<i>~~ Methods for Function YearPmc in Package RISmed ~~</i>
-----------------	--

Description

*~~ Methods for function YearPmc in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

YearPpublish	<i>Extracts YearPpublish from Medline object.</i>
--------------	---

Description

Extractor for the YearPpublish of a Medline object. This date corresponds to the date the article was published in print.

Usage

```
YearPpublish(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
YearPpublish(myeloma)
```

YearPpublish-methods *~~ Methods for Function YearPpublish in Package **RISmed** ~~*

Description

*~~ Methods for function YearPpublish in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

YearPubDate	<i>Extracts YearPubDate from Medline object.</i>
-------------	--

Description

Extractor for the YearPubDate of a Medline object. This date corresponds to the date the article was PubDate.

Usage

```
YearPubDate(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
YearPubDate(myeloma)
```

YearPubDate-methods *~~ Methods for Function YearPubDate in Package RISmed ~~*

Description

~~ Methods for function YearPubDate in package RISmed ~~

Methods

```
signature(object = "Medline")
```

YearPubmed	<i>Extracts YearPubmed from Medline object.</i>
------------	---

Description

Extractor for the YearPubmed of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

Usage

```
YearPubmed(object)
```

Arguments

object instance of class Medline

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
YearPubmed(myeloma)
```

YearPubmed-methods *~~ Methods for Function YearPubmed in Package **RISmed** ~~*

Description

*~~ Methods for function YearPubmed in package **RISmed** ~~*

Methods

```
signature(object = "Medline")
```

YearReceived	<i>Extracts YearReceived from Medline object.</i>
--------------	---

Description

Extractor for the YearReceived of a Medline object. This date corresponds to the date the article was received.

Usage

```
YearReceived(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
YearReceived(myeloma)
```

YearReceived-methods *~~ Methods for Function YearReceived in Package RISmed ~~*

Description

~~ Methods for function YearReceived in package RISmed ~~

Methods

```
signature(object = "Medline")
```

YearRevised	<i>Extracts YearRevised from Medline object.</i>
-------------	--

Description

Extractor for the YearRevised of a Medline object. This date corresponds to the date the article was Revised.

Usage

```
YearRevised(object)
```

Arguments

object	instance of class Medline
--------	---------------------------

Value

vector

References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

See Also

[Medline](#)

Examples

```
data(myeloma)
YearRevised(myeloma)
```

YearRevised-methods	<i>~~ Methods for Function YearRevised in Package RISmed ~~</i>
---------------------	---

Description

~~ Methods for function YearRevised in package RISmed ~~

Methods

```
signature(object = "Medline")
```

Index

* classes

EUtilsSummary-class, [34](#)
Medline-class, [49](#)

* methods

AbstractText-methods, [6](#)
Acronym-methods, [7](#)
Affiliation-methods, [8](#)
Agency-methods, [9](#)
ArticleId-methods, [10](#)
ArticleTitle-methods, [11](#)
Author-methods, [12](#)
Cited-methods, [14](#)
COIStatement-methods, [14](#)
CollectiveName-methods, [15](#)
CopyrightInformation-methods, [16](#)
Country-methods, [17](#)
DayAccepted-methods, [18](#)
DayArticleDate-methods, [19](#)
DayEntrez-methods, [20](#)
DayEpublish-methods, [21](#)
DayMedline-methods, [22](#)
DayPmc-methods, [23](#)
DayPpublish-methods, [24](#)
DayPubDate-methods, [25](#)
DayPubmed-methods, [26](#)
DayReceived-methods, [27](#)
DayRevised-methods, [28](#)
DOI-methods, [29](#)
ELocationID-methods, [30](#)
GrantID-methods, [36](#)
HourAccepted-methods, [37](#)
HourEntrez-methods, [38](#)
HourEpublish-methods, [39](#)
HourMedline-methods, [40](#)
HourPmc-methods, [41](#)
HourPpublish-methods, [42](#)
HourPubmed-methods, [43](#)
HourReceived-methods, [44](#)
ISOAbbreviation-methods, [45](#)

ISSN-methods, [46](#)
ISSNLinking-methods, [47](#)
Issue-methods, [48](#)
Language-methods, [49](#)
MedlinePgn-methods, [54](#)
MedlineTA-methods, [55](#)
Mesh-methods, [56](#)
MinuteAccepted-methods, [57](#)
MinuteEntrez-methods, [58](#)
MinuteEpublish-methods, [59](#)
MinuteMedline-methods, [60](#)
MinutePmc-methods, [61](#)
MinutePpublish-methods, [62](#)
MinutePubmed-methods, [63](#)
MinuteReceived-methods, [64](#)
MonthAccepted-methods, [65](#)
MonthArticleDate-methods, [66](#)
MonthEntrez-methods, [67](#)
MonthEpublish-methods, [68](#)
MonthMedline-methods, [69](#)
MonthPmc-methods, [70](#)
MonthPpublish-methods, [71](#)
MonthPubDate-methods, [72](#)
MonthPubmed-methods, [73](#)
MonthReceived-methods, [74](#)
MonthRevised-methods, [75](#)
NlmUniqueID-methods, [77](#)
PMID-methods, [78](#)
print-Medline, [78](#)
print-methods, [78](#)
PublicationStatus-methods, [79](#)
PublicationType-methods, [80](#)
Query-methods, [81](#)
RefSource-methods, [84](#)
RegistryNumber-methods, [85](#)
show-Medline, [86](#)
show-methods, [86](#)
summary-methods, [86](#)
Title-methods, [87](#)

- Volume-methods, 88
 - YearAccepted-methods, 89
 - YearArticleDate-methods, 90
 - YearEntrez-methods, 91
 - YearEpublish-methods, 92
 - YearMedline-methods, 93
 - YearPmc-methods, 94
 - YearPpublish-methods, 95
 - YearPubDate-methods, 96
 - YearPubmed-methods, 97
 - YearReceived-methods, 98
 - YearRevised-methods, 99
- AbstractText, 6
- AbstractText, Medline-method
(AbstractText-methods), 6
- AbstractText-methods, 6
- Acronym, 7
- Acronym, Medline-method
(Acronym-methods), 7
- Acronym-methods, 7
- Affiliation, 8
- Affiliation, Medline-method
(Affiliation-methods), 8
- Affiliation-methods, 8
- Agency, 9
- Agency, Medline-method (Agency-methods),
9
- Agency-methods, 9
- ArticleId, 10
- ArticleId, Medline-method
(ArticleId-methods), 10
- ArticleId-methods, 10
- ArticleTitle, 11
- ArticleTitle, Medline-method
(ArticleTitle-methods), 11
- ArticleTitle-methods, 11
- Author, 12
- Author, Medline-method (Author-methods),
12
- Author-methods, 12
- c, ANY, ANY-method (c, Medline-method), 13
- c, Medline-method, 13
- Cited, 13
- Cited, EUtilsSummary-method
(Cited-methods), 14
- Cited, Medline-method (Cited-methods), 14
- Cited-methods, 14
- COIStatement, 14
- COIStatement, Medline-method
(COIStatement-methods), 14
- COIStatement-methods, 14
- CollectiveName, 15
- CollectiveName, Medline-method
(CollectiveName-methods), 15
- CollectiveName-methods, 15
- CopyrightInformation, 16
- CopyrightInformation, Medline-method
(CopyrightInformation-methods),
16
- CopyrightInformation-methods, 16
- Country, 17
- Country, Medline-method
(Country-methods), 17
- Country-methods, 17
- DayAccepted, 18
- DayAccepted, Medline-method
(DayAccepted-methods), 18
- DayAccepted-methods, 18
- DayArticleDate, 19
- DayArticleDate, Medline-method
(DayArticleDate-methods), 19
- DayArticleDate-methods, 19
- DayEntrez, 20
- DayEntrez, Medline-method
(DayEntrez-methods), 20
- DayEntrez-methods, 20
- DayEpublish, 21
- DayEpublish, Medline-method
(DayEpublish-methods), 21
- DayEpublish-methods, 21
- DayMedline, 22
- DayMedline, Medline-method
(DayMedline-methods), 22
- DayMedline-methods, 22
- DayPmc, 23
- DayPmc, Medline-method (DayPmc-methods),
23
- DayPmc-methods, 23
- DayPpublish, 24
- DayPpublish, Medline-method
(DayPpublish-methods), 24
- DayPpublish-methods, 24
- DayPubDate, 25
- DayPubDate, Medline-method
(DayPubDate-methods), 25

- DayPubDate-methods, [25](#)
- DayPubmed, [26](#)
- DayPubmed,Medline-method
(DayPubmed-methods), [26](#)
- DayPubmed-methods, [26](#)
- DayReceived, [27](#)
- DayReceived,Medline-method
(DayReceived-methods), [27](#)
- DayReceived-methods, [27](#)
- DayRevised, [28](#)
- DayRevised,Medline-method
(DayRevised-methods), [28](#)
- DayRevised-methods, [28](#)
- DOI, [29](#)
- DOI,Medline-method (DOI-methods), [29](#)
- DOI-methods, [29](#)

- ELocationID, [30](#)
- ELocationID,Medline-method
(ELocationID-methods), [30](#)
- ELocationID-methods, [30](#)
- EUtilsGet, [31](#), [76](#)
- EUtilsQuery, [32](#), [34](#)
- EUtilsQuery-class (EUtilsQuery), [32](#)
- EUtilsSummary, [13](#), [32](#), [33](#), [82](#), [83](#)
- EUtilsSummary-class, [34](#)

- GrantID, [35](#)
- GrantID,Medline-method
(GrantID-methods), [36](#)
- GrantID-methods, [36](#)

- HourAccepted, [36](#)
- HourAccepted,Medline-method
(HourAccepted-methods), [37](#)
- HourAccepted-methods, [37](#)
- HourEntrez, [37](#)
- HourEntrez,Medline-method
(HourEntrez-methods), [38](#)
- HourEntrez-methods, [38](#)
- HourEpublish, [38](#)
- HourEpublish,Medline-method
(HourEpublish-methods), [39](#)
- HourEpublish-methods, [39](#)
- HourMedline, [39](#)
- HourMedline,Medline-method
(HourMedline-methods), [40](#)
- HourMedline-methods, [40](#)
- HourPmc, [40](#)

- HourPmc,Medline-method
(HourPmc-methods), [41](#)
- HourPmc-methods, [41](#)
- HourPpublish, [41](#)
- HourPpublish,Medline-method
(HourPpublish-methods), [42](#)
- HourPpublish-methods, [42](#)
- HourPubmed, [42](#)
- HourPubmed,Medline-method
(HourPubmed-methods), [43](#)
- HourPubmed-methods, [43](#)
- HourReceived, [43](#)
- HourReceived,Medline-method
(HourReceived-methods), [44](#)
- HourReceived-methods, [44](#)

- ISOAbbreviation, [44](#)
- ISOAbbreviation,Medline-method
(ISOAbbreviation-methods), [45](#)
- ISOAbbreviation-methods, [45](#)
- ISSN, [45](#)
- ISSN,Medline-method (ISSN-methods), [46](#)
- ISSN-methods, [46](#)
- ISSNLinking, [46](#)
- ISSNLinking,Medline-method
(ISSNLinking-methods), [47](#)
- ISSNLinking-methods, [47](#)
- Issue, [47](#)
- Issue,Medline-method (Issue-methods), [48](#)
- Issue-methods, [48](#)

- Language, [48](#)
- Language,Medline-method
(Language-methods), [49](#)
- Language-methods, [49](#)

- Medline, [6–30](#), [35–48](#), [54–77](#), [79–81](#), [84](#), [85](#),
[87–99](#)
- Medline (Medline-class), [49](#)
- Medline-class, [49](#)
- MedlinePgn, [54](#)
- MedlinePgn,Medline-method
(MedlinePgn-methods), [54](#)
- MedlinePgn-methods, [54](#)
- MedlineTA, [55](#)
- MedlineTA,Medline-method
(MedlineTA-methods), [55](#)
- MedlineTA-methods, [55](#)
- Mesh, [56](#)

- Mesh, Medline-method (Mesh-methods), 56
- Mesh-methods, 56
- MinuteAccepted, 57
- MinuteAccepted, Medline-method
(MinuteAccepted-methods), 57
- MinuteAccepted-methods, 57
- MinuteEntrez, 58
- MinuteEntrez, Medline-method
(MinuteEntrez-methods), 58
- MinuteEntrez-methods, 58
- MinuteEpublish, 59
- MinuteEpublish, Medline-method
(MinuteEpublish-methods), 59
- MinuteEpublish-methods, 59
- MinuteMedline, 60
- MinuteMedline, Medline-method
(MinuteMedline-methods), 60
- MinuteMedline-methods, 60
- MinutePmc, 61
- MinutePmc, Medline-method
(MinutePmc-methods), 61
- MinutePmc-methods, 61
- MinutePpublish, 62
- MinutePpublish, Medline-method
(MinutePpublish-methods), 62
- MinutePpublish-methods, 62
- MinutePubmed, 63
- MinutePubmed, Medline-method
(MinutePubmed-methods), 63
- MinutePubmed-methods, 63
- MinuteReceived, 64
- MinuteReceived, Medline-method
(MinuteReceived-methods), 64
- MinuteReceived-methods, 64
- MonthAccepted, 65
- MonthAccepted, Medline-method
(MonthAccepted-methods), 65
- MonthAccepted-methods, 65
- MonthArticleDate, 66
- MonthArticleDate, Medline-method
(MonthArticleDate-methods), 66
- MonthArticleDate-methods, 66
- MonthEntrez, 67
- MonthEntrez, Medline-method
(MonthEntrez-methods), 67
- MonthEntrez-methods, 67
- MonthEpublish, 68
- MonthEpublish, Medline-method
(MonthEpublish-methods), 68
- MonthEpublish-methods, 68
- MonthMedline, 69
- MonthMedline, Medline-method
(MonthMedline-methods), 69
- MonthMedline-methods, 69
- MonthPmc, 70
- MonthPmc, Medline-method
(MonthPmc-methods), 70
- MonthPmc-methods, 70
- MonthPpublish, 71
- MonthPpublish, Medline-method
(MonthPpublish-methods), 71
- MonthPpublish-methods, 71
- MonthPubDate, 72
- MonthPubDate, Medline-method
(MonthPubDate-methods), 72
- MonthPubDate-methods, 72
- MonthPubmed, 73
- MonthPubmed, Medline-method
(MonthPubmed-methods), 73
- MonthPubmed-methods, 73
- MonthReceived, 74
- MonthReceived, Medline-method
(MonthReceived-methods), 74
- MonthReceived-methods, 74
- MonthRevised, 75
- MonthRevised, Medline-method
(MonthRevised-methods), 75
- MonthRevised-methods, 75
- myeloma, 76
- NlmUniqueID, 76
- NlmUniqueID, Medline-method
(NlmUniqueID-methods), 77
- NlmUniqueID-methods, 77
- PMID, 77
- PMID, Medline-method (PMID-methods), 78
- PMID-methods, 78
- print, EUtilsSummary-method
(print-methods), 78
- print, Medline-method (print-Medline), 78
- print-Medline, 78
- print-methods, 78
- PublicationStatus, 79
- PublicationStatus, Medline-method
(PublicationStatus-methods), 79
- PublicationStatus-methods, 79

- PublicationType, [80](#)
- PublicationType, Medline-method
(PublicationType-methods), [80](#)
- PublicationType-methods, [80](#)
- Query, [81](#)
- Query, Medline-method (Query-methods), [81](#)
- Query-methods, [81](#)
- QueryCount, [82](#)
- QueryCount, EUtilsSummary-method
(QueryCount), [82](#)
- QueryId, [82](#)
- QueryId, EUtilsSummary-method (QueryId),
[82](#)
- QueryTranslation, [83](#)
- QueryTranslation, EUtilsSummary-method
(QueryTranslation), [83](#)
- readLines, [33](#)
- RefSource, [84](#)
- RefSource, Medline-method
(RefSource-methods), [84](#)
- RefSource-methods, [84](#)
- RegistryNumber, [85](#)
- RegistryNumber, Medline-method
(RegistryNumber-methods), [85](#)
- RegistryNumber-methods, [85](#)
- RISmed (RISmed-package), [5](#)
- RISmed-package, [5](#)
- show, EUtilsSummary-method
(show-methods), [86](#)
- show, Medline-method (show-Medline), [86](#)
- show-Medline, [86](#)
- show-methods, [86](#)
- summary, EUtilsSummary-method
(summary-methods), [86](#)
- summary-methods, [86](#)
- Title, [87](#)
- Title, Medline-method (Title-methods), [87](#)
- Title-methods, [87](#)
- Volume, [88](#)
- Volume, Medline-method (Volume-methods),
[88](#)
- Volume-methods, [88](#)
- YearAccepted, [89](#)
- YearAccepted, Medline-method
(YearAccepted-methods), [89](#)
- YearAccepted-methods, [89](#)
- YearArticleDate, [90](#)
- YearArticleDate, Medline-method
(YearArticleDate-methods), [90](#)
- YearArticleDate-methods, [90](#)
- YearEntrez, [91](#)
- YearEntrez, Medline-method
(YearEntrez-methods), [91](#)
- YearEntrez-methods, [91](#)
- YearEpublish, [92](#)
- YearEpublish, Medline-method
(YearEpublish-methods), [92](#)
- YearEpublish-methods, [92](#)
- YearMedline, [93](#)
- YearMedline, Medline-method
(YearMedline-methods), [93](#)
- YearMedline-methods, [93](#)
- YearPmc, [94](#)
- YearPmc, Medline-method
(YearPmc-methods), [94](#)
- YearPmc-methods, [94](#)
- YearPpublish, [95](#)
- YearPpublish, Medline-method
(YearPpublish-methods), [95](#)
- YearPpublish-methods, [95](#)
- YearPubDate, [96](#)
- YearPubDate, Medline-method
(YearPubDate-methods), [96](#)
- YearPubDate-methods, [96](#)
- YearPubmed, [97](#)
- YearPubmed, Medline-method
(YearPubmed-methods), [97](#)
- YearPubmed-methods, [97](#)
- YearReceived, [98](#)
- YearReceived, Medline-method
(YearReceived-methods), [98](#)
- YearReceived-methods, [98](#)
- YearRevised, [99](#)
- YearRevised, Medline-method
(YearRevised-methods), [99](#)
- YearRevised-methods, [99](#)